



Refrigeration | Air-conditioning | Ventilation systems

# General catalogue



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Dear customers,

We are pleased to present our catalogue. It offers an overview of thousands of refrigeration components and tools from leading national and international manufacturers. In addition to product illustrations and descriptions, you will also find detailed technical data in the catalogue.

We are constantly expanding our product range and remain faithful to our principle: professional quality at top prices. If you are missing a product in our range, we would be pleased to be contacted by you - certainly we will be able to offer the desired product in professional quality at a top price. Our range is not only targeted at refrigeration technicians but also at people from various related branches and non-professionals such as business people, legal scholars and experts from other engineering sciences. Our wide product range with over 14000 products offers everything the refrigeration technology heart desires. Not only refrigerants, but also a complete range of air conditioning tools, installation materials and other interesting products such as piggyback units, outdoor and indoor units for air conditioning, cold rooms and cleaning agents for various applications are waiting for you. Thanks to long-lasting supplier relationships and large purchase quantities, we can offer you excellent quality at a good price. We serve you with the most modern designed website, where you can find all elements easily and quickly.

If you need any other products that you cannot find on our homepage or in our catalogue, please send an email to [info@kaeltepartner.net](mailto:info@kaeltepartner.net) and we will be happy to help you. We are also available via email, telephone, fax and whatsapp for any other inquiries you may have.

You will find daily updated prices with your individual discount conditions at [www.shop.kaeltepartner.net](http://www.shop.kaeltepartner.net).

#### Orders

The fastest and easiest way to order items from us is to order them directly on our website. Alternatively, we also accept orders by fax (02554-91298399), email, telephone or by Whatsapp. Orders that are not placed via our onlineshop require the following information:

- Customer number (if this is not available, the complete address data must be given),
- Kältepartner article number of the desired product,
- desired quantity of the product,
- desired method of payment.
- If necessary, further information, such as delivery date or different delivery addresses.

#### Shipment

Orders, if on stock, will be shipped on working days within 24 hours after receipt of order. Alternatively, goods on stock can be picked up directly from the warehouse in 48366 Laer by prior arrangement via telephone. However, registration on phone is absolutely necessary.

The goods are shipped with our shipping partners: DHL, Schenker forwarding agency, UPS, TNT. Optionally, express or other special services can be added. The minimum order value in our shop is 5 EUR plus shipping cost for customers from Germany as well as for customers from other countries.

#### Terms and conditions

You will find our general terms and conditions at the end of this catalogue

We hope that our catalogue is a helpful tool for product selection. We are happy to accept suggestions for changes and improvements.

Now we wish you a lot of fun while browsing through our product range. We support you right from the start with attractive offers and a wide range of services. We will be happy to advise you personally on all aspects of your inquiries and questions.

With best wishes from Laer,

Your Kältepartner.net Team

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**Compressors**  
**ACC/Cubigel/ZEM**

R-134a, LBP, 230 V

**Expansion:** capillary.

Temperature range: LBP -35 °C to -10 °C.

Voltage: 220 - 240 V / 50 Hz.

Code	Type	HP	Displacement [cm <sup>3</sup> ]	Cooling capacity [W] (t <sub>o</sub> ) t <sub>o</sub> = -25 °C, t <sub>k</sub> = +55 °C
47-32GD30AA	GD 30 AA	1/12	3,08	52
47-32GD36AA	GD 36 AA	1/12	3,62	61
47-32GL45AA	GVM 38AA	1/8	3,87	88
47-32GL50AA	GVM 44AA	1/7	4,38	90
47-32GL60AA	GVM 57AA	1/6	5,73	113
47-32GL70AA	GL 70 AA	1/5	6,65	121
47-32GL75AA	GVM 66AA	1/5	7,00	133
47-32GL80AA	GVY 75AA	1/5	7,52	150
47-32GL90AA	GL 90 AA	1/4	9,08	165
47-32GL99AA	GL 99 AA	1/4	9,93	175
47-32GP12FB	GP 12 FB	1/3	12,05	191
47-32GP14FB	GP 14 FB	3/8	14,17	229
47-32GP16FB	GP 16 FB	3/8	16,15	267

**Compressors**  
**ACC/Cubigel/ZEM**

R-404A, R-507, LBP, 230 V

**Expansion:** valve / capillary.

Temperature range: LBP -40 °C to -10 °C.

Voltage: 220 - 240 V / 50Hz.

Code	HP	Displ. [cm <sup>3</sup> ]	Cooling capacity [W] (t <sub>o</sub> ) t <sub>11</sub> = +32°C, t <sub>k</sub> = +55°C			Cooling capacity [W] ASHRAE, t <sub>k</sub> = +55°C	Consumption -25 / 55 [°C]			
			-30,0	-25,0	-10,0	-23,3	[W]	[A]		
47-32ML45FB	1/6	4,56	100	134	275	197	200	1,37		
47-32ML60FB	1/5	5,98	134	178	352	261	248	1,56		
47-32ML80FB	1/4	8,10	190	253	507	372	324	2,04		
47-32ML90FB	1/3	8,86	208	276	550	407	333	2,24		
47-32MP12FB	3/8	12,05	252	351	747	523	429	2,67		
47-32MP14FB	1/2	14,17	304	422	880	628	533	3,3		
47-32MX18FB	5/8	18,40	397	548	1151	814	571	2,87		
47-32MX21FB	3/4	20,72	463	632	1301	936	662	3,35		
47-32MX23FB	7/8	23,20	536	720	1460	1064	752	3,84		
47-32MS26FB	3/4	25,93	572	816	1744	1221	848	4,31		
47-32MS30FB	7/8	29,95	657	935	1977	1396	987	4,89		
47-32MS30FB-V	7/8	29,95	with Rotalock valve							
47-32MS34FB	1	34,42	764	1 089	2 319	1628	1148	6,16		
47-32MS34FB-V	1	34,42	with Rotalock valve							

## Compressors ACC/Cubigel/ZEM

R-404A, R-507, LBP, 400 V

**Expansion:** valve / capillary.  
 Temperature range: LBP -40 °C to -10 °C.  
 Voltage: 380 - 400 V / 50Hz.

Code	HP	Displ. [cm <sup>3</sup> ]	Cooling capacity [W] (t <sub>o</sub> ) t <sub>11</sub> =+32°C, t <sub>k</sub> =+55°C			Cooling capacity [W] ASHRAE, t <sub>k</sub> =+55°C	Consumption -25 / 55 [°C]	
			-30,0	-25,0	-10,0		[W]	[A]
47-32MS34F3	1	34,42	764	1089	2319	1628	1105	2,33

## Compressors ACC/Cubigel/ZEM

R-404A, R-507, HMBP, 230 V

**Expansion:** valve / capillary.  
 Temperature range: HMBP -25 °C to +10 °C.  
 Voltage: 220 - 240 V / 50Hz.



Code	HP	Displ. [cm <sup>3</sup> ]	Cooling capacity [W] (t <sub>o</sub> ) t <sub>11</sub> =+32°C, t <sub>k</sub> =+55°C				Cooling capacity [W] ASHRAE, t <sub>k</sub> =+55°C	Consumption +5 / 55 [°C]	
			-25,0	-15,0	5,0	10,0		[W]	[A]
47-32ML40TB	1/6	4,05	133	214	473	558	593	328	1,85
47-32ML45TB	1/5	4,5	151	238	528	624	662	352	2,04
47-32ML60TB	1/4	5,68	166	277	647	769	814	424	2,38
47-32ML80TB	3/8	7,57	227	385	880	1040	1104	535	3,01
47-32ML90TB	3/8	8,86	282	463	1055	1250	1325	645	3,69
47-32MP12TB	1/2	12,05	373	634	1463	1732	1835	771	3,67
47-32MP14TB	1/2	14,17	463	765	1674	1963	2093	944	4,51
47-32MX18TB	7/8	18,4	554	936	2 157	2 554	2709	1199	6,28
47-32MX21TB	1	20,72	625	1 052	2 425	2873	3047	1363	6,82
47-32MS26TB	1.3/8	25,93	674	1295	3 185	3 788	4011	1569	7,83
47-32MS34TB	1.5/8	34,42	1012	1860	4 231	4 959	5292	2321	11,6
47-32MS34TB-V	with Rotalock valve								

## Compressors ACC/Cubigel/ZEM

R-404A, R-507, HMBP, 400 V

**Expansion:** valve / capillary. Temperature range: HMBP -25 °C to +10 °C.  
 Voltage: 380 - 400 V / 50 Hz.

Code	HP	Displ. [cm <sup>3</sup> ]	Cooling capacity [W] (t <sub>o</sub> ) t <sub>11</sub> =+32°C, t <sub>k</sub> =+55°C				Cooling capacity [W] ASHRAE, t <sub>k</sub> =+55°C	Consumption +5 / 55 [°C]	
			-25,0	-15,0	5,0	10,0		[W]	[A]
47-32MS26T3	1.3/8	25,93	674	1295	3186	3791	4013	1580	2,97
47-32MS34T3	1.5/8	34,42	1007	1860	4231	4958	5292	2317	4,45

**Compressors**  
**ACC/Cubigel/ZEM**

R-134a, LBP, 12 - 24 V DC

Compressor is including module.

Code	Type	Cooling capacity [W], $t_o = -23,5\text{ °C}$ (rpm / minute)			
		2000	2500	3000	3500
47-32GD30FDC	GD 30 FDC	46	58	67	74
47-32GD30PRI	GD 30 PRI	spare module for GD30			

**Compressors**  
**ACC/Cubigel/ZEM**

R-134a, HMBP, 230 V

**Expansion:** valve / capillary.  
 Temperature range: HMBP -25 °C to +10 °C.  
 Voltage: 220 - 240 V / 50 Hz.

Code	HP	Displ. [cm <sup>3</sup> ]	Cooling capacity [W] ( $t_o$ , $t_{11} = +32\text{ °C}$ , $t_k = +55\text{ °C}$ )				Cooling capacity [W] ASHRAE, $t_k = +55\text{ °C}$	Consumption + 5 [°C]	
			-25,0	-15,0	5,0	10,0	7,2	[W]	[A]
47-32GD36MBC	1/10	3,62	53	96	261	318	314	173	1,12
47-32GD36MBD	1/10	3,62	53	96	261	318	314	173	1,12
47-32GD40MBC	1/8	4,06	64	117	301	363	360	192	1,18
47-32GL45TB	1/6	4,5	76	134	342	413	409	211	1,17
47-32GL60TB	1/5	5,68	95	170	437	528	523	240	1,46
47-32GL60TG	1/5	5,68	95	170	437	528	523	240	1,79
47-32GL80TB	1/5	7,57	111	212	554	667	662	302	1,79
47-32GL80TG	1/5	7,57	111	212	554	667	662	302	2,03
47-32GL90TB	1/4	8,85	143	259	661	796	790	345	2,03
47-32GP12TB	3/8	12,05	169	338	893	1077	1069	449	2,83
47-32GP12TG	3/8	12,05	169	338	893	1077	1069	508	3,3
47-32GP14TB	3/8	14,17	190	373	999	1209	1197	566	3,28
47-32GP14TG	3/8	14,17	190	373	999	1209	1197	566	3,61
47-32GPY14RA	3/8	14,32	296	492	1161	1386	1383	585	3,42
47-32GP14YB	3/8	14,17			2268		2558	717	3,43
47-32GP16TB	3/8	16,15	269	476	1205	1452	1442	665	3,89
47-32GP16TG	3/8	16,15	269	476	1205	1452	1442	662	4,28
47-32GX18TB	1/2	18,4	286	539	1390	1674	1663	724	4,47
47-32GX21TB	5/8	20,72	323	603	1550	1867	1854	815	5,16
47-32GX23TB	5/8	23,20	368	678	1730	2083	2070	911	5,64
47-32GS26TB	3/4	25,93	264	703	2071	2514	2488	988	6,12
47-32GS26TB-V	with Rotalock valve								
47-32GS30TB	7/8	29,95	318	785	2452	3020	2965	1055	5,31
47-32GS34TB	1	34,42	476	1068	2852	3422	3408	1247	6,38
47-32GS34TB-V	with Rotalock valve								

TB - 50Hz, motor CSIR, evaporating temperature -25 / 10  
 TG - 50/60 Hz, motor CSIR, evaporating temperature -25 / 10  
 YB - 50 Hz, motor RSCR, evaporating temperature 0 / 25  
 RA - 50 Hz, motor CSR, evaporating temperature -25 / 10



## Compressors ACC/Cubigel/ZEM

R-22, HMBP, 230 V

**Expansion:** valve / capillary.  
Temperature range: HMBP -25 °C to +10 °C.  
Voltage: 220 - 240 V / 50 Hz.



Code	Type	HP	Cooling capacity [W] ( $t_o, t_{11}=+32^{\circ}\text{C}, t_k=+55^{\circ}\text{C}$ )		
			-15,0	-10,0	-5,0
47-32L76TN	L 76 TN	3/8	348	442	551

## Compressors ACC/Cubigel/ZEM

R-600a, LBP, 230 V

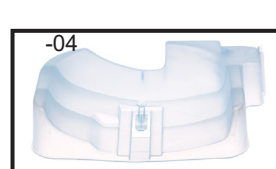
**Expansion:** capillary.  
High efficiency (with run capacitor).  
Temperature range: LBP -30 °C to -10 °C.  
Voltage: 220 - 240 V / 50 Hz.



Code	Displacement [cm <sup>3</sup> ]	HP	Cooling capacity [W] $t_o=-25^{\circ}\text{C}, t_k=+45^{\circ}\text{C}$
47-32HQY45AA	4,56	1/12	52
47-32HQY55AA	5,6	1/9	69
47-32HQY70AA	6,64	1/8	87
47-32HQY75AA	7,39	1/7	89
47-32HQY80AA	8,11	1/7	101
47-32HQY90AA	9,09	1/7	109
47-32HQY99AA	9,62	1/6	126
47-32HPY12AA	11,1	1/5	149
47-32HPY14AA	14,3	1/5	166
47-32HPY16AA	16,15	1/4	181

## Evaporation bowls

Code	Description
47-323200-01	Evaporation bowl for ASPERA compressors
47-323200-03	Evaporation bowl for ACC compressors
47-323200-04	Evaporation bowl for ACC compressors
47-323200-05	Evaporation bowl for ACC compressors



**Condensing units**  
**ACC/Cubigel/ZEM**

R-134a, HMBP, 230 V

(type CGL 45 TB 1 NR for capillary use).

**Temperature range:** HMBP -25 °C to +10 °C.

Voltage: 220 - 240 V / 50 Hz.

1 NR - Expansion: capillary

3 NR - Expansion: valve

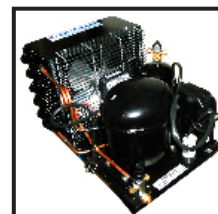
**Version:**

1 NR - welding connection, without liquid receiver and valves

2 NR - with valves, without liquid receiver

3 NR - with valves and liquid receiver

4 NR - welding connection, charging valve, without liquid receiver



Code	Type	Tubes		HP	Displacement [cm <sup>3</sup> ]
		suction	discharge		
47-32CGL45TB1NR	CGL 45 TB 1NR	3/8	1/4	1/6	4,50
47-32CGL60TB1NR	CGL 60 TB 1NR	3/8	1/4	1/5	5,68
47-32CGL60TB3NR	CGL 60 TB 3NR	3/8F	1/4F	1/5	5,68
47-32CGL80TB1NR	CGL 80 TB 1NR	3/8F	1/4F	1/5	7,57
47-32CGL80TB3NR	CGL 80 TB 3NR	3/8F	1/4F	1/5	7,57
47-32CGL90TB1NR	CGL 90 TB 1NR	3/8F	1/4F	1/4	8,85
47-32CGL90TB3NR	CGL 90 TB 3NR	3/8F	1/4F	1/4	8,85
47-32CGP12TB1NR	CGP 12 TB 1NR	3/8F	1/4F	3/8	12,05
47-32CGP12TB3NR	CGP 12 TB 3NR	3/8F	1/4F	3/8	12,05
47-32CGP14TB1NR	CGP 14 TB 1NR	3/8F	1/4F	3/8	14,17
47-32CGP14TB3NR	CGP 14 TB 3NR	3/8F	1/4F	3/8	14,17
47-32CGX18TB3NR	CGX 18 TB 3NR	3/8F	3/8F	1/2	18,4
47-32CGX21TB3NR	CGX 21 TB 3NR	3/8F	3/8F	5/8	20,72
47-32CGS26TB3NR	CGS 26 TB 3NR	5/8R	3/8R	3/4	25,93
47-32CGS30TB3NR	CGS 30 TB 3NR	5/8R	3/8R	7/8	29,95
47-32CGS34TB3NR	CGS 34 TB 3NR	5/8R	3/8R	1	34,42

Type	Consumption t <sub>0</sub> =+7,2 [°C]		Cooling capacity [W] (t <sub>0</sub> ) t <sub>11</sub> =+32°C, t <sub>k</sub> =+55 °C						Dimensions [mm]			Weight [kg]
	A	W	-25,0	-15,0	-5,0	5,0	7,2	10,0	width	length	height	
CGL 45 TB 1NR	1,00	238	108	183	286	416	448	491	320	425	220	14,5
CGL 60 TB 1NR	1,00	271	130	232	361	520	558	609	320	425	235	17,0
CGL 60 TB 3NR	1,00	271	130	232	361	520	558	609	320	425	235	17,0
CGL 80 TB 1NR	2,02	343	166	285	441	636	684	747	340	425	235	17,0
CGL 80 TB 3NR	2,02	343	166	285	441	636	684	747	340	425	235	17,0
CGL 90 TB 1NR	2,02	386	203	341	533	780	842	924	340	425	235	18,5
CGL 90 TB 3NR	2,02	386	203	341	533	780	842	924	340	425	235	18,5
CGP 12 TB 1NR	3,02	604	251	448	704	1019	1097	1199	350	425	270	20,0
CGP 12 TB 3NR	3,02	604	251	448	704	1019	1097	1199	350	425	270	20,0
CGP 14 TB 1NR	4,01	668	292	498	778	1130	1217	1334	350	425	270	21,5
CGP 14 TB 3NR	4,01	668	292	498	778	1130	1217	1334	350	425	270	21,5
CGX 18 TB 3NR	5,01	832	383	674	1050	1510	1622	1771	365	510	300	28,5
CGX 21 TB 3NR	5,02	926	450	759	1178	1707	1838	2012	450	480	315	33,0
CGS 26 TB 3NR	6,01	1125	524	989	1542	2182	2335	2535	425	510	350	36,0
CGS 30 TB 3NR	6,03	1174	609	1134	1811	2640	2843	3112	425	530	350	39,0
CGS 34 TB 3NR	6,03	1358	686	1283	1992	2813	3009	3266	425	530	350	39,0

## Condensing units ACC/Cubigel/ZEM

R-404A, LBP, 230 V

**Expansion:** valve.  
Temperature range: LBP -40 °C to -10 °C.  
Voltage: 220 - 240 V / 50 Hz.

**Version:**  
1 NR - welding connection, without liquid receiver and valves  
2 NR - with valves, without liquid receiver  
3 NR - with valves and liquid receiver  
4 NR - welding connection, charging valve, without liquid receiver

Code	Type	Tubes		HP	Displacement [cm <sup>3</sup> ]
		suction	discharge		
47-32CML80FB3N	CML80 FB 3N	3/8	1/4	1/4	7,57
47-32CML90FB3N	CML 90 FB 3N	3/8	1/4	1/3	8,86
47-32CMP12FB3N	CMP 12 FB 3N	3/8F	1/4F	3/8	12,05
47-32CMP14FB3N	CMP 14 FB 3N	3/8F	1/4F	1/2	14,17
47-32CMX18FB3N	CMX 18 FB 3N	3/8R	3/8R	5/8	18,40
47-32CMX21FB3N	CMX 21 FB 3N	3/8R	3/8R	3/4	20,72
47-32CMX23FB3N	CMX 23 FB 3N	3/8	3/8	7/8	23,20
47-32CMS26FB3N	CMS 26 FB 3N	1/2R	3/8R	3/4	25,93
47-32CMS34FB3N	CMS 34 FB 3N	5/8R	3/8R	1	34,42

Type	Consumption t <sub>o</sub> = -23,3 [°C]		Cooling capacity [W] (t <sub>o</sub> ) t <sub>i</sub> = +32°C, t <sub>k</sub> = +55°C					Dimensions [mm]			Weight [kg]
	[A]	[W]	-40,0	-30,0	-23,3	-20,0	-10,0	width	length	height	
CML 80 FB 3N	1,99	342	169	274	357	401	548	320	425	220	17,2
CML 90 FB 3N	1,99	355	195	310	419	482	709	325	425	235	19,2
CMP 12 FB 3N	1,99	467	250	432	586	670	965	340	425	245	22,3
CMP14 FB 3N	2,98	567	267	461	620	707	1006	340	425	245	22,3
CMX 18 FB 3N	2,97	639	349	611	820	933	1313	350	510	275	28,0
CMX 21 FB 3N	2,98	712	544	840	1062	1178	1560	365	510	305	29,8
CMX 23 FB 3N	3,97	813	667	973	1209	1334	1750	365	510	305	30,3
CMS 26 FB 3N	3,97	883	523	1028	1400	1593	2217	425	510	350	39,0
CMS 34 FB 3N	5,95	1209	826	1210	1638	1899	2892	425	530	350	39,5

## Condensing units ACC/Cubigel/ZEM

R-404A, R-507, LBP, 400 V

**Voltage:** 380 - 420 V / 50 Hz.  
Version: 3N - with valves and liquid receiver

**Expansion:** valve.  
Temperature range: LBP -40 °C to -10 °C.

Code	Type	Tubes		HP	Displacement [cm <sup>3</sup> ]
		suction	discharge		
47-32CMS34F33N	CMS 34 F3 3N	5/8R	3/8R	1	34,42

Type	Consumption t <sub>o</sub> = -23,3 [°C]		Cooling capacity [W] (t <sub>o</sub> ) t <sub>i</sub> = +32°C, t <sub>k</sub> = +55 °C					Dimensions [mm]			Weight [kg]
	[A]	[W]	-40,0	-30,0	-23,3	-20,0	-10,0	width	length	height	
CMS 34 F3 3N	1,99	1209	627	1139	1535	1746	2448	425	530	350	44,0

**Condensing units**  
**ACC/Cubigel/ZEM**

R-404A, R-507, HMBP, 400 V

Voltage: 380 - 420 V / 50 Hz.

Code	Type	Tubes		HP	Displacement [cm <sup>3</sup> ]
		suction	discharge		
47-32CMS26T33N	CMS 26 T3 3N	5/8R	3/8R	1 3/8	25,93
47-32CMS34T33N	CMS 34 T3 3N	5/8R	3/8R	1 5/8	34,42

Type	Consumption t <sub>0</sub> =7,2 [°C]		Cooling capacity [W], t <sub>0</sub> t <sub>11</sub> =+32°C, t <sub>k</sub> =+55 °C						Dimensions [mm]			Weight [kg]
	[A]	[W]	-25,0	-15,0	-5,0	5,0	7,2	10,0	width	length	height	
CMS 26 T3 3N	3,02	1707	1206	1919	2723	3617	3826	4099	455	515	440	43,2
CMS 34 T3 3N	4,02	2492	1527	2368	3289	4288	4519	4818	455	515	440	44,0

**Condensing units**  
**ACC/Cubigel/ZEM**

R-404A, HMBP, 230 V

Expansion: valve.

Temperature range: HMBP -25 °C to +10 °C.

Voltage: 220 - 240 V / 50 Hz.

Version:

1 NR - welding connection, without liquid receiver and valves

2 NR - with valves, without liquid receiver

3 NR - with valves and liquid receiver

4 NR - welding connection, charging valve, without liquid receiver

Code	Type	Tubes		HP	Displacement [cm <sup>3</sup> ]
		suction	discharge		
47-32CML45TB3N	CML 45 TB 3N	3/8F	1/4F	1/5	4,5
47-32CML60TB3N	CML 60 TB 3N	3/8F	1/4F	1/4	5,68
47-32CML80TB3N	CML 80 TB 3N	3/8F	1/4F	3/8	7,57
47-32CML90TB3N	CML 90 TB 3N	3/8F	3/8F	3/8	8,85
47-32CMP12TB3N	CMP 12 TB 3N	3/8F	3/8F	1/2	12,05
47-32CMP14TB3N	CMP 14 TB 3N	3/8F	3/8F	1/2	14,17
47-32CMX18TB3N	CMX 18 TB 3N	3/8F	3/8F	7/8	18,4
47-32CMX21TB3N	CMX 21 TB 3N	3/8F	3/8R	1	20,72
47-32CMS26TB3N	CMS 26 TB 3N	5/8R	3/8R	1 3/8	25,93
47-32CMS34TB3N	CMS 34 TB 3N	5/8R	3/8R	1 5/8	34,42

Type	Consumption t <sub>0</sub> =-23,3 [°C]		Cooling capacity [W] t <sub>0</sub> [°C] t <sub>11</sub> =+32°C, t <sub>k</sub> =+55 °C						Dimensions [mm]			Weight [kg]
	[A]	[W]	-25,0	-15,0	-5,0	5,0	7,2	10,0	width	length	height	
CML 45 TB 3N	2,02	386	215	328	464	623	662	712	320	425	235	14,7
CML 60 TB 3N	1,99	479	266	409	579	777	824	886	325	425	235	22,5
CML 80 TB 3N	3,02	572	408	567	795	1094	1170	1271	345	450	270	23,5
CML 90 TB 3N	2,99	702	421	646	914	1226	1301	1399	350	425	270	23,9
CMP 12 TB 3N	4,01	863	581	898	1281	1728	1835	1976	425	480	350	29,8
CMP 14 TB 3N	4,01	1003	613	972	1389	1863	1975	2122	425	500	350	29,9
CMX 18 TB 3N	6,01	1375	790	1206	1650	2121	2228	2367	430	500	350	33,0
CMX 21 TB 3N	6,00	1384	847	1 265	1 798	2 445	2 603	2812	455	500	440	36,0
CMS 26 TB 3N	8,03	1778	1183	1853	2615	3468	3668	3930	455	515	440	43,7
CMS 34 TB 3N	12,07	2461	1369	2459	3524	4563	4788	5073	455	515	440	44,5

## Compressors Embraco

## General

Cooling capacities of Embraco compressors are different to Cubigel or Danfoss compressors due to a different testing conditions. To avoid misunderstanding please study conversion tables.

ASHRAE conditions - compressors Embraco.

CECOMAF conditions - compressors ACC, Danfoss

**Temperature range:** LBP -35 °C to -10 °C.

**Temperature range:** HMBP -25 °C to +10 °C.

Temperatures	LBP [°C]	MBP-HBP [°C]	AC [°C]
Evaporating	-23,3	7,2	7,2
Condensing	54,4	54,4	54,4
Gas and Ambient	32,2	35	35
Liquid	32,2	-	-
Liquid cooling	-	8,3	8,3

Description	CECOMAF [°C]		ASHRAE [°C]	
	LBP	HMBP	LBP	HMBP
Condensing temperature	55		55	55
Liquid temperature	55		32	46
Overheating temperature	32		32	35
Suction temperature	32		32	35
Ambient temperature	32		32	35



Refrigerant	Usage	CECOMAF [W] = coefficient x cooling capacity in ASHRAE [W]	CECOMAF [W] = coefficient x cooling capacity in ASHRAE [Kcal/h]
R134A	HBP	0,8254	0,959
	LBP	0,7266	0,845
R404A	HBP	0,7897	0,918
	LBP	0,6725	0,782

Conversion tables between ASHRAE and CECOMAF conditions are indicative only.

## Compressors Embraco

## R-22, LBP, 230V

Code	Displ. [cm³]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>o</sub> [°C]						Consumption -23,3 [°C]	
			-30,0	-25,0	-20,0	-15,0	-10,0	-23,3	[W]	[A]
47-32NE2125E	8,78	54,4			353	458	582	293	278	1,5
		45	226	304	401	517	651			
47-32NE2134E	12,12	54,4			518	670	843	429	391	2,6
		45	331	441	576	737	924			
47-32T2140E	14,5	54,4			604	796	1023	496	420	2,9
		45	348	482	654	866	1116			
47-32T2155E	17,4	54,4			731	965	1241	599	484	2,2
		45	427	591	798	1049	1344			
47-32T2168E	20,4	54,4			948	1304	1744	759	585	2,7
		45	547	725	963	1262	1622			
47-32NJ2178E	23,5	54,4			1099	1425	1803	912	729	3,3
		45	668	918	1216	1560	1953			
47-32NJ2190E	27,12	54,4			1280	1662	2104	1060	819	4,1
		45	782	1078	1426	1826	2279			

**Compressors  
Embraco**

R-22, M/HBP, 230V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C]								Consumption 7,2 [°C]	
			-20,0	-15,0	-10,0	-5,0	0	5,0	7,2	10,0	[W]	[A]
47-32NE6181E	7,28	54,4				561	705	873	954	1063	414	2,6
		45		413	523	661	826	1018		1237		
47-32NE6210E	8,78	54,4				670	836	1026	1118	1241	535	3,0
		45		499	627	787	978	1199		1452		
47-32NE9213E	12,12	54,4				980	1220	1491	1620	1792	674	3,1
		45	535	701	902	1137	1406	1711		2049		
47-32T6217E	14,50	54,4				1073	1388	1728	1885	2093	714	3,4
		45		678	979	1306	1659	2039		2445		
47-32T6220E	17,40	54,4				1345	1682	2065	2248	2494	846	3,8
		45		886	1204	1543	1902	2283		2685		
47-32NJ9226E	21,70	54,4				1792	2249	2769	3018	3352	1124	5,0
		45	968	1274	1647	2086	2591	3163		3800		
47-32NJ9226E-V	21,70	with Rotalock valve									1124	4,99
47-32NJ9232E	26,20	54,4				2159	2695	3313	3611	4013	1384	6,7
		45	1158	1522	1974	2514	3142	3857		4661		
47-32NJ9232E-V	26,20	with Rotalock valve									1429	7,2
47-32NJ9238E	32,70	54,4				2802	3427	4131	4466	4914	1856	8,2
		45	1542	1967	2490	3112	3831	4648		5563		
47-32NJ9238E-V	32,70	with Rotalock valve									1856	8,18


**Compressors  
Embraco**

R-22, M/HBP, 400V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C]								Consumption 7,2 [°C]	
			-20,0	-15,0	-10,0	-5,0	0	5,0	7,2	10,0	[W]	[A]
47-32NJ9232P	26,20	54,4				2159	2695	3313	3611	4013	1371	2,8
		45	1158	1522	1974	2514	3142	3857		4661		
47-32NJ9238P	32,70	54,4				2802	3427	4131	4466	4914	1856	4,0
		45	1542	1967	2490	3112	3831	4648		5563		

**Compressors  
Embraco**

R-22, AC, 230V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C]					Consumption +7,2 [°C]	
			0	5,0	7,2	10,0	15,0	[W]	[A]
47-32NJ7228F	23,50	54,4	2325	2992	3326	3786	4707	1321	5,8
		45	2749	3471		4320	5297		
47-32NJ7231F	26,20	54,4	2726	3315	3596	3974	4703	1460	6,8
		45	3273	3940		4704	5566		
47-32NJ7240F	34,37	54,4	3617	4443	4838	5369	6394	2048	9,8
		45	3986	4919		5981	7171		

**Compressors  
Embraco**

R-134a, LBP, 230V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900				ASHRAE -23,3 / 54,4 [°C]		
			-30,0	-25,0	-20,0	-15,0	Cooling cap. [W]	Consumption [W]	Consumption [A]
47-32EMT22HLP	3,00	55	38	54	75	98	74	63	0,44
		45	50	69	91	119			
47-32EMT36HLP	3,97	55	60	79	105	137	108	85	0,56
		45	71	94	123	160			
47-32EMT43HLP	4,85	54,4	91	121	159	206	133	102	0,70
		45	98	129	169	218			
47-32EMT49HLP	5,56	54,4	103	137	180	232	151	114	0,76
		45	111	145	189	243			
47-32EMT60HLP	6,76	54,4	120	159	209	272	175	151	0,99
		45	134	176	230	296			
47-32NEK2116Z	7,37	55	96	123	184	241	187	186	2,9
		45	121	166	221	284			
47-32NEK1116Z	7,40	54,4	127	174	233	303	194	135	0,6
		45	142	189	249	321			
47-32NEK1118Z	8,40	54,4	150	204	271	352	224	157	0,74
		45	165	220	289	371			
47-32NE1121Z	9,26	55	161	217	288	373	253	198	1,46
		45	193	258	337	433			
47-32NEK1121Z	9,27	54,4	131	220	296	388	248	195	1,4
		45	178	238	315	408			
47-32NE2121Z	9,27	54,4	138	226	301	391	253	204	1,41
		45	182	242	319	411			
47-32NE2130Z	12,12	54,4		283	375	482	344	260	2,10
		45	228	299	388	495			
47-32NE2134Z	14,28	54,4		324	438	556	356	291	2,30
		45	263	345	453	585			
47-32NEK2140Z	16,80	54,4	236	314	417	546	436	340	2,35
		45	279	378	503	653			

**Compressors  
Embraco**

R-134a, HBP, 230V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900					ASHRAE 7,2 / 54,4 [°C]		
			-15,0	-10,0	-5,0	0	5,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32EMT37HDP	3,40	55	117	150	189	237	298	351	137	0,85
		45	146	184	229	284	343			
47-32EMT45HDR	3,97	55	117	150	189	237	298	421	158	0,95
		45	146	184	229	284	402			
47-32EMT50HDP	4,50	55	158	203	256	318	388	475	184	1,05
		45	191	242	303	374	456			
47-32EMT6144Z	5,19	55	197	250	313	388	474	577	205	1,31
		45	232	294	367	395	549			
47-32EMT6160Z	6,76	55	255	322	403	495	600	720	300	1,74
		45	298	377	469	504	696			
47-32NEK6160Z	7,28	55	232	296	376	472	586	716	297	1,90
		45	281	355	448	481	687			
47-32NEK6160Z-60HZ	7,28	54,4		351	450	563	693	845	350	2,15
		45	330	415	522	650	799			
47-32EMT6170Z	7,69	55	281	358	448	550	663	806	334	1,95
		45	330	418	522	559	771			
47-32NEK6170Z	8,39	55	284	360	453	562	689	837	347	2,10
		45	336	422	527	572	798			
47-32NEK6170Z-60HZ	8,40	54,4		428	532	657	804	981	344	2,41
		45	393	495	620	767	937			
47-32NE6170Z	8,78	54,4			443	570	718	791	330	1,93
		45	314	411	532	676	844			
47-32NEK6187Z	9,99	55	360	439	538	657	796	965	410	2,61
		45	375	479	606	669	928			
47-32NEK6210Z	12,11	55	358	480	619	773	942	1129	497	2,86
		45	456	578	726	787	1097			
47-32NEK6210Z-60HZ	12,11	54,4		507	614	782	1011	1267	605	3,75
		45	543	598	721	911	1167			
47-32NEK6187Z	12,12	55			637	804	997			
		45	454	586	747	936	1154			
47-32NEK6212Z	14,28	55	444	562	708	881	1081	1314	628	3,78
		45	534	665	828	897	1248			
47-32NEK6214Z	16,80	55	499	640	814	1008	1215	1486	691	4,47
		45	593	752	945	1026	1412			
47-32NT6215Z	17,39	55	484	646	843	1071	1326	1620	707	4,41
		45	621	796	1014	1090	1567			
47-32NT6217Z	20,44	55	633	791	991	1234	1521	1863	806	4,73
		45	754	938	1173	1256	1795			
47-32NT6220Z	22,37	55	675	852	1060	1303	1586	2016	820	5,07
		45	800	1010	1260	1554	1897			



Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>o</sub> [°C] EN12900					ASHRAE 7,2 / 54,4 [°C]		
			-15,0	-10,0	-5,0	0	5,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32NJ6220Z	26,11	55	629	875	1147	1459	1826	2547	934	5,94
		45	822	1104	1419	1780	2202			
47-32NJ6220Z-V	26,11	with Rotalock valve					2547	934	5,94	
47-32NJ6226Z	34,38	55	868	1182	1531	1923	2371	2976	1232	5,95
		45	1144	1497	1892	2340	2852			
47-32NJ6226Z-V	34,38	with Rotalock valve					2976	1232	5,95	



## Compressors Embraco

R-134a, MBP, 400 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>o</sub> [°C] EN12900					ASHRAE 7,2 / 54,4 [°C]		
			-15,0	-10,0	-5,0	0	5,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32NJ6220ZX	26,11	55	696	993	1326	1693	2096	2547	875	1,62
		45	882	1159	1502	1723	2389			
47-32NJ6220ZX-V	26,11	with Rotalock valve					2547	875	1,62	
47-32NJ6226ZX	34,38	55	878	1214	1589	2004	2457	2976	1190	2,31
		45	1304	1644	2044	2539	3027			
47-32NJ6226ZX-V	34,38	with Rotalock valve					2976	1190	2,31	

## Compressors Embraco

R-134a, L/MBP, 230V

Code	Type	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>o</sub> [°C]				
				-35,0	-25,0	-23,3	-15,0	-5,0
47-32FFU80HAK	EGAS80HLR	6,76	54,4	86	175	193	306	-
47-32FG85HAK	FG85HAK	9,04	54,4	106	205	227	347	-
47-32FFI10HAK	FFI10HAK	9,04	54,4	106	220	249	400	636
47-32FFI12HBK	FFI12HBK	11,14	54,4	152	287	319	498	790

**Compressors  
Embraco**

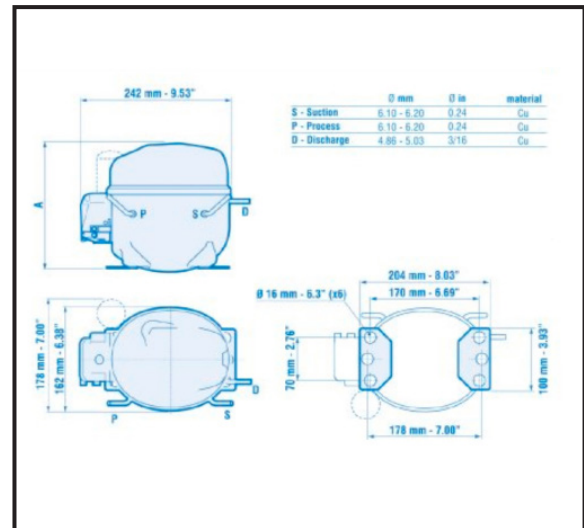
R-404A, R-507, LBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900					ASHRAE -23,3 / 54,4 [°C]		
			-40,0	-35,0	-30,0	-25,0	-20,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32EMT2117GK	4,50	55			127	166	211	244	181	1,15
		45	91	125	164	210	265			
47-32NEK2117GK	4,52	55			117	154	197	235	182	1,25
		45	80	111	149	194	246			
47-32EMT2121GK	5,20	55			168	212	264	300	214	1,33
		45	120	159	204	258	322			
47-32NEK2121GK	5,45	55			143	188	241	282	219	1,37
		45	104	139	183	238	302			
47-32EMT2125GK	5,96	55			190	242	303	351	251	1,57
		45	140	185	238	301	373			
47-32NEK2125GK	6,20	55			169	221	283	341	279	2,04
		45	120	160	213	278	354			
47-32EMT2130GK	6,76	55			205	263	330	390	292	1,80
		45	150	200	257	326	406			
47-32NEK2130GK	7,40	55			203	267	341	399	303	2,18
		45	132	187	254	332	422			
47-32NEK2134GK	8,78	55			239	313	401	464	358	2,35
		45	170	227	302	394	501			
47-32NE2134GK	12,11	55			283	424		477	388	2,59
		45	125	236	363	504				
47-32NEK2150GK	12,12	55			326	419	529	616	497	3,10
		45	235	313	408	522	657			
47-32NEK2168GK	14,30	55			358	468	596	688	610	4,05
		45	259	345	454	587	742			
47-32NT2168GK	14,50	55			319	422	542	642	502	3,50
		45	206	310	423	549	698			
47-32NT2178GK	17,40	55			399	516	651	800	601	3,83
		45	283	396	526	676	853			
47-32NT2180GK	20,40	55			461	601	767	935	749	4,66
		45	323	453	604	778	977			
47-32NT2192GK	22,40	55			518	675	860	1053	814	4,92
		45	373	506	669	865	1100			
47-32NJ2192GK	26,11	55			530	722	938	1126	854	4,00
		45	348	509	705	936	1203			
47-32NJ2192GK-V	26,20	with Rotalock valve					1126	854	4,00	
47-32NT2212GK	27,8	55			688	888	1127	1373	999	5,04
		45	503	671	876	1125	1421			

## Compressors Embraco

R-404A, R-507, LBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900					ASHRAE -23,3 / 54,4 [°C]		
			-40,0	-35,0	-30,0	-25,0	-20,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32NJ2212GK	34,37	55			727	978	1262	1546	1160	5,80
		45	472	694	961	1276	1637			
47-32NJ2212GK-V	34,37	with Rotalock valve					1546	1160	5,80	
47-32NJ2212GK-TAND	34,37	55			727	978	1546	1160	5,80	
		45	472	694	961	1276				



## Compressors Embraco

R-404A, R-507, LBP, 400 V

Code	Type	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C]			
				-40,0	-35,0	-30,0	-25,0
47-32NJ2192GS	NJ2192GS	26,20	54,4			752	1021
			45	418	629	880	1172
47-32NJ2192GS-V	NJ2192GS-V	26,20	with Rotalock valve				
47-32NJ2212GS	NJ2212GS	34,37	54,4			945	1333
			45	491	753	1085	1486
47-32NJ2212GS-V	NJ2212GS-V	34,37	with Rotalock valve				

**Compressors  
Embraco**

R-404A, R-507, MBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900						ASHRAE 7,2 / 54,4 [°C],		
			-20,0	-15,0	-10,0	-5,0	0	5,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32EMT6144GK	3,97	55			303	370	448	535	680	284	1,56
		45	246	307	377	458	551	656			
47-32NEK6144GK	4,50	45			314	384	465	559	714	313	1,77
		55	271	326	395	480	580	694			
47-32EMT6152GK	4,50	55			339	413	497	593	758	329	1,77
		45	275	344	422	511	614	731			
47-32EMT6165GK	5,19	55			384	471	570	682	877	394	2,18
		45	315	392	482	586	706	840			
47-32NEK6165GK	6,20	55			443	533	639	759	966	471	2,54
		45	388	454	542	650	781	931			
47-32NEK6181GK	7,28	55			483	587	711	853	1089	515	2,99
		45	405	491	599	730	882	1057			
47-32NEK6181GK-60Hz	7,28	54,4	348	424	511	611	726	856	1247	624	3,6
		45	418	504	611	738	888	1062			
47-32NEK6210GK	8,77	55			586	723	879	1054	1340	628	3,49
		45	468	589	733	900	1091	1305			
47-32NEK6210GK-60Hz	8,77	54,4	434	516	621	749	901	1075	1569	735	4,5
		45	511	620	756	918	1105	1317			
47-32NEK6213GK	12,11	55			88	958	1150	1366	1761	952	5,4
		45	666	804	972	1171	1403	1666			
47-32NT6217GK	12,55	55			699	870	1078	1321	1779	830	4,75
		45	590	734	920	1148	1415	1719			
47-32NEK6217GK	14,28	55			955	1157	1386	1638	2075	1010	4,86
		45	777	954	1166	1411	1690	2003			
47-32NT6220GK	14,50	55			853	1061	1307	1589	2119	961	5,8
		45	678	858	1080	1342	1645	1985			
47-32NT6222GK	17,39	55			995	1233	1520	1850	2482	1228	6,98
		45	839	1034	1287	1597	1960	2371			
47-32NT6224GK	20,44	55			1244	1540	1879	2258	3023	1271	6,02
		45	996	1261	1573	1933	2339	2787			
47-32NJ9226GK	21,71	55			1255	1581	1944	2340	3241	1386	6,3
		45	982	1285	1648	2066	2536	3055			
47-32NJ9226GK-V	21,71	with Rotalock valve						3241	1386	6,3	
47-32NT6226GK	22,37	55			1369	1674	2030	2434	3221	1540	8,47
		45	1105	1383	1717	2108	2557	3057			
47-32NJ9232GK	26,11	55			1414	1817	2271	2771	4030	1576	7,16
		45	1093	1470	1911	2413	2973	3588			
47-32NJ9232GK-V	26,11	with Rotalock valve						4030	1576	7,16	

## Compressors Embraco

R-404A, R-507, MBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900						ASHRAE 7,2 / 54,4 [°C]		
			-20,0	-15,0	-10,0	-5,0	0	5,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32NJ9238GK	32,67	55			1895	2323	2804	3347	4620	2216	10,1
		45	1507	1939	2424	2970	3583	4272			
47-32NJ9238GK-V	32,67	with Rotalock valve						4620	2216	10,1	

## Compressors Embraco

R-404A, R-507, MBP, 400 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900						ASHRAE 7,2 / 54,4 [°C]		
			-20,0	-15,0	-10,0	-5,0	0	5,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32NJ9226GS	21,71	55			1278	1609	1980	2389	3248	1300	2,4
		45	989	1301	1667	2086	2560	3087			
47-32NJ9226GS-V	21,71	with Rotalock valve						3248	1300	2,4	
47-32NJ9232GS	26,11	55			1513	1911	2357	2853	4030	1615	2,9
		45	1166	1535	1972	2476	3047	3684			
47-32NJ9232GS-V	26,11	with Rotalock valve						4030	1615	2,9	
47-32NJ9238GS	32,67	55			1883	2345	2863	3435	4839	1900	4,02
		45	1514	1979	2506	3091	3735	4441			
47-32NJ9238GS-V	32,67	with Rotalock valve						4839	1900	4,02	

## Compressors Embraco

R-404C, AC, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900				ASHRAE 7,2 / 54,4 [°C]		
			0	5,0	10,0	15,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32NJ7225GF	21,70	54,4	2140	2652	3216	3835	2897	1200	6,0
		45	2523	3099	3741	4448			

## Compressors Embraco

R-407C, AC, 400 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900				ASHRAE 7,2 / 54,4 [°C]		
			0	5,0	10,0	15,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32NJ7231GP	26,20	54,4	2584	3201	3884	4630	3360	1416	3,04
		45	3047	3742	4517	5370			
47-32NJ7240GP	34,37	54,4	3390	4200	5095	6074	4587	1833	3,40
		45	4909	5926	7044	8267			

**Compressors  
Embraco**

R-600, HBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900						ASHRAE 7,2 / 54,4 [°C]		
			-15,0	-10,0	-5,0	0	5,0	10,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32EMT30CDP	4,50	55		125	155	191	232	278	256	99	0,59
		45	113	140	176	213	258	310			
47-32EMT45CDP	6,78	55		172	226	276	338	411	389	146	0,91
		45	127	163	262	315	382	464			
47-32EMT6144Y	9,04	55		250	310	377	455	543	543	219	1,25
		45	223	282	350	427	515	614			
47-32NEK6144Y	9,99	55		234	298	374	458	550	550	229	1,74
		45	215	272	343	426	519	616			
47-32EMT6160Y	11,14	55		303	375	458	552	658	653	588	2,27
		45	277	347	427	520	622	738			
47-32NEK6160Y	12,11	55		294	372	464	567	678	677	268	1,84
		45	267	338	425	528	641	764			
47-32NEK6170Y	14,28	55		358	449	554	674	806	809	327	2,06
		45	326	412	512	630	764	912			

**Compressors  
Embraco**

R-600, LBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900						ASHRAE -23,3 / 54,4 [°C]		
			-15,0	-10,0	-5,0	0	5,0	10,0	Cooling cap. [W]	Consump. [W]	Consump. [A]
47-32EMT26CLP	5,20	55	44	62	82	104	132	168	83	63	0,34
		45	54	73	95	120	151	190			
47-32EMT32CLP	5,96	55	53	71	95	122	154	190	97	76	0,53
		45	64	85	112	143	178	220			
47-32EMT40CLP	7,23	55	69	91	118	151	189	234	119	93	0,68
		45	83	109	139	176	219	270			
47-32EMT46CLP	7,96	55	76	102	134	171	215	265	135	105	0,75
		45	88	118	154	196	245	302			
47-32EMY55CLP	9,04	55	85	114	150	192	241	296	156	100	0,66
		45	102	135	175	222	277	340			
47-32NBM1114Y	10,00	55	236	295	362				153	118	0,80
		45	249	311	381						
47-32EMX70CLC	11,14	55	103	142	184	233	290	360	191	111	0,55
		45	123	164	210	263	327	403			
47-32NBM1116Y	12,30	55	285	357	440				199	143	0,98
		45	305	383	474						
47-32NBM1118Y	14,30	55	330	412	507				233	165	1,12
		45	351	439	541						

## Compressors Embraco

R-290, LBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900							ASHRAE -23,3/ 54,4 [°C]		
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	Cooling cap. [W]	Consum. [W]	Consum. [A]
47-32EMT1121U	5,56	55			156	200	252	312	380	269	174	0,87
		45	111	145	188	238	298	365	440			
47-32EMT2121U	5,56	55			156	200	252	312	380	265	182	1,15
		45	111	145	188	238	298	365	440			
47-32EMT2125U	5,96	55			176	225	282	348	422	301	204	1,42
		45	124	162	209	265	330	402	486			
47-32NEK1121U	6,20	55			163	208	261	323	393	275	208	1,55
		45	118	150	192	243	306	377	459			
47-32NEK2121U	6,20	55			136	183	238	302	376	247	207	1,63
		45	95	126	168	220	284	358	444			
47-32EMT2130U	6,76	55			196	252	315	390	472	340	240	1,64
		45	138	180	233	295	368	450	542			
47-32NEK2125U	7,28	55			187	237	299	374	462	317	242	1,71
		45	154	182	224	281	353	439	540			
47-32NEK2134U	10,00	55			269	338	423	523	639	449	330	2,04
		45	208	252	315	395	494	611	746			
47-32NEK1150U	13,54	55			337	429	538	661	801	571	466	3,19
		45	237	309	398	506	630	773	933			
47-32NEK2150U	13,54	55			339	435	550	683	835	582	444	2,98
		45	237	309	403	515	650	804	979			
47-32NT2170U	20,40	55			470	608	770	955	1162	816	625	3,98
		45	333	441	577	740	932	1150	1395			

## Compressors Embraco

R-600, MBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900							ASHRAE 7,2 / 54,4 [°C]		
			-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	Cooling cap. [W]	Consum. [W]	Consum. [A]
47-32EMT6144U	4,50	55	195	238	290	354	426	510	604	616	235	1,34
		45	228	280	342	416	502	598	705			
47-32EMT6152U	5,20	55	242	301	363	432	514	612	730	728	279	1,58
		45	278	346	418	500	595	710	844			
47-32NEK6152U	5,45	55			348	424	511	607	714	730	286	1,72
		45	286	331	402	487	588	704	833			
47-32EMT6165U	5,96	55	284	348	420	500	596	710	846	840	327	2,00
		45	330	402	485	580	690	822	978			
47-32NEK6165U	6,20	55			398	484	583	696	822	839	344	2,32
		45	315	381	464	561	675	803	947			

**Compressors**  
**Embraco**

R-290, MBP, 230 V

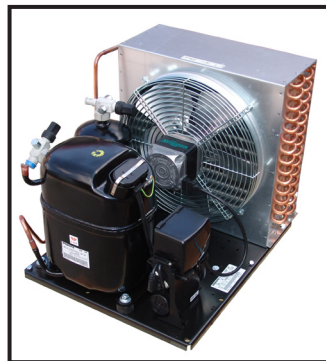
Code	Displ. [cm <sup>3</sup> ]	Condensing temp. [°C]	Cooling capacity [W] at t <sub>0</sub> [°C] EN12900							ASHRAE 7,2 / 54,4 [°C]		
			-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	Cooling cap. [W]	Consum. [W]	Consum. [A]
47-32NEK6181U	7,28	55			447	548	664	793	930	949	386	2,44
		45	367	432	523	637	770	919	1080			
47-32NEK6210U	8,78	55			549	670	811	969	1145	1169	459	2,75
		45	434	526	640	776	936	1118	1322			
47-32NEK6213U	12,12	55			763	927	1112	1317	1540	1586	692	4,24
		45	594	723	882	1069	1281	1516	1772			
47-32NEK6217U	14,30	55			875	1060	1271	1508	1771	1820	824	4,92
		45	681	833	1018	1233	1481	1759	2068			
47-32NT6220U	17,40	55			995	1236	1506	1803	2129	2202	900	5,80
		45	757	954	1193	1472	1791	2150	2549			
47-32NT6220U-CSR	17,40	55			976	1215	1492	1806	2158	2250	806	4,28
		45	742	934	1167	1443	1761	2121	2524			
47-32NT6222U	20,40	55			1118	1400	1726	2097	2505	2537	900	5,80
		45	865	1095	1372	1695	2060	2465	2907			
47-32NT6222U-CSR	20,40	55			1177	1471	1803	2174	2581	2635	953	4,85
		45	897	1132	1412	1735	2104	2513	2965			
47-32NT6224U	22,40	55			1274	1583	1938	2336	2773	2843	1040	4,85
		45	966	1239	1557	1920	2321	2761	3232			

**Condensing units**  
**Embraco**

General

**Expansion:** valve / capillary.  
 Temperature range: LBP -40 °C to -10 °C.  
 Temperature range: HMBP -25 °C to +10 °C.

**Voltage:** 220 - 240 V / 50 Hz,  
 or 380 - 420 V / 50 Hz.  
 All units are equipped with:  
 service valves, liquid receiver.  
 c/v - capillary / valve


**Condensing units**  
**Embraco**

R-134a, HBP, 400 V

**Testing conditions:** EN13215 : Oil temperature +32°C, suction temperature 20°C/10 K, ambient temperature +32°C  
 ASHRAE M/HBP evaporating temperature +7,2°C, suction temperature 32,2°C,  
 ambient temperature +32°C



Code	Displ. [cm <sup>3</sup> ]	Tubes		Dimensions [mm]			Weight [kg]
		suction	discharge	length	width	height	
47-32UNJ6220ZX	26,11	1/2"	3/8"	481	409	324	34,7
47-32UNJ6226ZX	34,38	5/8"	3/8"	481	409	324	34,7

Type	Cooling capacity ASHRAE 7,2 /32[°C]			Cooling capacity [W] at EN13215, ambient temp. +32[°C], t <sub>o</sub> [°C]								
				-15,0	-10,0	-5,0	0	5,0	+7,2 [°C]			10,0
	Cooling [W]	Cons. [W]	Cons. [A]						Cooling [W]	Cons. [W]	Cons. [A]	
UNJ6220ZX	2285	1004	2,28	882	1141	1425	1761	2112	2262	1004	2,28	2488
UNJ6226ZX	2796	1293	2,40	1217	1531	1896	2312	2759	2768	1293	2,40	3244

## Condensing units Embraco

R-134a, HBP, 230 V

Code	Displ. [cm <sup>3</sup> ]	Tubes		Dimensions [mm]			Weight [kg]
		suction	discharge	length	width	height	
47-32UEMT6144Z	5,19	3/8"	1/4"	430	308	226	14,9
47-32UEMT6160Z	6,76	3/8"	1/4"	435	308	254	17,7
47-32UNEK6160Z	7,28	3/8"	1/4"	435	306	254	17,7
47-32UEMT6170Z	7,69	3/8"	1/4"	435	308	254	17,7
47-32UNEK6170Z	8,32	3/8"	1/4"	435	306	254	16,7
47-32UNEK6187Z	9,99	3/8"	1/4"	467	339	296	21,0
47-32UNEK6210Z	12,11	3/8"	1/4"	467	339	296	21,7
47-32UNEK6212Z	14,28	3/8"	1/4"	467	339	296	23,0
47-32UNEK6214Z	16,80	3/8"	1/4"	467	339	296	23,0
47-32UNT6215Z	17,39	3/8"	1/4"	465	340	296	27,7
47-32UNT6217Z	20,44	1/2"	3/8"	470	395	324	33,5
47-32UNT6220Z	20,37	1/2"	3/8"	470	395	324	34,3
47-32UNJ6220Z	26,11	1/2"	3/8"	481	409	324	34,7
47-32UNJ6226Z	34,38	5/8"	3/8"	481	409	324	37,5

Type	Cooling capacity ASHRAE 7,2 / 32[°C]			Cooling capacity [W] at EN13215, ambient temp. +32[°C], t <sub>o</sub> [°C]								
				-15,0	-10,0	-5,0	0	5,0	+7,2 [°C]			10,0
	Cooling [W]	Cons. [W]	Cons. [A]						Cooling [W]	Cons. [W]	Cons. [A]	
UEMT6144Z	573	235	1,48	221	280	349	431	523	567	235	1,48	625
UEMT6160Z	758	314	1,87	297	373	465	571	692	750	314	1,87	825
UNEK6160Z	758	314	2,15	382	468	574	680	800	855	465	2,15	912
UEMT6170Z	820	366	2,13	318	402	502	617	749	812	366	2,13	893
UNEK6170Z	820	366	2,35	407	479	595	693	789	855	347	2,35	921
UNEK6187Z	958	418	2,86	359	457	574	711	870	949	418	2,86	1043
UNEK6210Z	1228	497	2,9	381	530	735	888	1044	1216	497	2,9	1203
UNEK6212Z	1448	730	3,95	568	727	908	1106	1327	1434	730	3,95	1601
UNEK6214Z	1492	753	5,17	584	750	935	1139	1368	1477	753	5,17	1601
UNT6215Z	1483	593	5,52	625	775	942	1135	1335	1468	593	5,52	1523

**Condensing units**  
**Embraco**

R-134a, HBP, 230 V

Testing conditions: EN13215 : Oil temperature +32°C, suction temperature 20°C/10 K, ambient temperature +32°C  
 ASHRAE M/HBP evaporating temp. +7,2°C, suction temp. 32,2°C, ambient temp. +32°C

Type	Cooling capacity ASHRAE 7,2 / 32[°C]			Cooling capacity [W] at EN13215, ambient temp. +32[°C], t <sub>o</sub> [°C]								
				-15,0	-10,0	-5,0	0	5,0	+7,2 [°C]			10,0
	Cooling [W]	Cons. [W]	Cons. [A]						Cooling [W]	Cons. [W]	Cons. [A]	
UNT6217Z	1830	812	5,70	663	829	1040	1296	1599	1726	766	5,70	1950
UNT6220Z	1970	960	5,99	748	954	1194	1473	1792	1950	960	5,99	2142
UNJ6220Z	2363	1058	6,45	897	1143	1432	1767	2150	2340	1058	6,45	2570
UNJ6226Z	3006	1355	6,75	1217	1531	1896	2312	2759	2976	1355	5,75	3244

**Condensing units**  
**Embraco**

R-404A, R-507, LBP, 400 V

Testing conditions : EN13215 : Oil temperature +32°C, suction temperature 20°C / 10 K, ambient temperature +32°C  
 ASHRAE LBP evaporating temp. -23,3°C, suction temp. 32,2°C, ambient temp. +32,2°C

Code	Displ. [cm <sup>3</sup> ]	Tubes		Dimensions [mm]			Weight [kg]
		suction	discharge	length	width	height	
47-32UNJ2212GS	34,38	5/8"	3/8"	481	409	324	40,0

Type	Cooling capacity ASHRAE -23,3 / 32[°C]			Cooling capacity [W] at EN13215, ambient temp. +32[°C], t <sub>o</sub> [°C]									
				-40,0	-35,0	-30,0	-25,0	-23,3 [°C]			-20,0	-15,0	-10,0
	Cooling [W]	Cons. [W]	Cons. [A]					Cooling [W]	Cons. [W]	Cons. [A]			
UNJ2212GS	1599	1479	2,38	488	717	962	1251	1367	1264	2,38	1574	1950	2366

**Condensing units**  
**Embraco**

R-404A, R-507, LBP, 230 V

Testing conditions : EN13215 : Oil temperature +32°C, suction temperature 20°C / 10 K, ambient temperature +32°C  
 ASHRAE LBP evaporating temp. -23,3°C, suction temp. 32,2°C, ambient temp. +32,2°C

Code	Displ. [cm <sup>3</sup> ]	Tubes		Dimensions [mm]			Weight [kg]
		suction	discharge	length	width	height	
47-32UEMT2117GK	4,50	3/8"	1/4"	430	308	226	17,1
47-32UEMT2125GK	5,96	3/8"	1/4"	435	308	254	17,1
47-32UEMT2130GK	6,76	3/8"	1/4"	435	308	254	15,4
47-32UNEK2125GK	6,20	3/8"	1/4"	435	306	254	17,1
47-32UNEK2134GK	8,77	3/8"	1/4"	467	339	296	20,0
47-32UNEK2150GK	12,11	3/8"	1/4"	467	339	296	20,0
47-32UNEK2168GK	14,28	3/8"	1/4"	491	340	296	23,8
47-32UNT2168GK	14,50	3/8"	1/4"	476	340	296	33,8
47-32UNT2178GK	17,39	3/8"	1/4"	476	340	296	33,8
47-32UNT2180GK	20,40	3/8"	1/4"	476	340	296	33,8
47-32UNT2192GK	22,37	3/8"	1/4"	470	395	324	36,2
47-32UNT2212GK	27,80	1/2"	3/8"	470	395	324	33,8
47-32UNJ2192GK	26,11	1/2"	3/8"	481	409	324	36,2

Code	Displ. [cm <sup>3</sup> ]	Tubes		Dimensions [mm]			Weight [kg]
		suction	discharge	length	width	height	
47-32UNJ2212GK	34,38	5/8"	3/8"	440	612	296	40
47-32UGNJ2212GS	2 x 34,38	-	3/8"	1093	551	311	87

Type	Cooling capacity ASHRAE -23,3°C / 32°C			Cooling capacity [W] at EN13215, ambient temp. +32°C										
	Cooling [W]	Cons. [W]	Cons. [A]	-40	-35	-30	-25	-23,3 [°C]			-20	-15	-10	
								Cooling [W]	Cons. [W]	Cons. [A]				
UEMT2117GK														
UEMT2125GK	396	317	1,72	129	171	225	289	315	271	1,72	366	461	570	
UEMT2130GK														
UNEK2125GK	410	342	2,48	154	191	266	311	350	292	2,48	389	469	585	
UNEK2134GK	490	342	2,77	180	216	315	401	419	292	2,77	476	576	687	
UNEK2150GK	639	530	3,52	270	322	392	481	546	453	3,52	589	725	880	
UNEK2168GK	840	730	4,17	261	367	484	643	718	624	4,17	825	994	1153	
UNT2168GK	832	655	2,92	264	367	492	645	711	560	2,92	810	1013	1246	
UNT2178GK	910	655	4,39	311	410	542	710	778	560	4,39	912	1164	1455	
UNT2180GK	973	701	4,20	321	427	568	749	832	611	4,2	971	1245	1610	
UNT2192GK	1146	842	5,50	394	523	691	896	979	720	5,5	1142	1443	1787	
UNT2212GK	1443	991	5,25	515	669	873	1130	1233	847	5,25	14,37	1819	2258	
UNJ2192GK	1198	942	4,75	359	495	657	919	1024	805	4,75	1184	1497	1844	
UNJ2212GK	1599	1175	6,05	488	717	962	1251	1366,7	1004,3	6,05	1574	1950	2365	
UGNJ2212GS	3198	2958	4,60	976	1434	1924	2502	2757	2250	-	3148	3900	4732	

## Condensing units Embraco

R-404A, R-507, MBP, 230 V

Testing conditions : EN13215 : Oil temperature +32°C, suction temperature 20°C/10 K, ambient temperature +32°C  
ASHRAE M/HBP evaporating temp. +7,2°C, suction temp. 32,2°C, ambient temp. +32°C

Code	Number of ventilators	Displ. [cm <sup>3</sup> ]	Tubes		Dimensions [mm]			Weight [kg]
			suction	discharge	length	width	height	
47-32UEMT6144GK	1	3,97	3/8"	1/4"	430	308	226	17,1
47-32UEMT6152GK	1	4,50	3/8"	1/4"	430	308	226	17,1
47-32UNEK6144GK	1	4,51	3/8"	1/4"	480	300	226	17,4
47-32UEMT6165GK	1	5,19	3/8"	1/4"	435	308	254	17,9
47-32UNEK6165GK	1	6,20	3/8"	1/4"	480	300	254	17,9
47-32UNEK6181GK	1	7,28	3/8"	1/4"	467	339	296	21,6
47-32UNEK6210GK	1	8,77	3/8"	1/4"	467	339	296	20,8
47-32UNEK6213GK	1	12,11	3/8"	1/4"	467	339	296	20,8
47-32UNE9213GK	1	12,11	3/8"	1/4"	505	340	303	22,5
47-32UNE6210GK	1	13,54	3/8"	1/4"	470	340	303	20,8
47-32UNEK6217GK	1	14,28	1/2"	3/8"	470	395	324	30,2
47-32UNT6217GK	1	12,55	1/2"	3/8"	470	395	324	33,3

Code	Number of ventilators	Displ. [cm <sup>3</sup> ]	Tubes		Dimensions [mm]			Weight [kg]
			suction	discharge	length	width	height	
47-32UNT6220GK	1	14,50	1/2"	3/8"	470	395	324	33,3
47-32UNT6222GK	1	17,39	1/2"	3/8"	470	395	324	33,3
47-32UNT6226GK	1	20,37	1/2"	3/8"	500	405	390	35,4
47-32UNJ9226GK	1	20,71	5/8"	3/8"	512	410	390	37,5
47-32UNJ9226GK-2	2	20,71	5/8"	3/8"	440	612	296	40,0
47-32UNJ9232GK	1	26,11	5/8"	1/2"	600	440	372	42,3
47-32UNJ9232GK-2	2	26,11	5/8"	1/2"	460	785	296	44,0
47-32UNJ9238GK	1	32,67	5/8"	1/2"	600	440	372	45,3
47-32UNJ9238GK-2	2	32,67	5/8"	1/2"	460	785	296	45,0

Type	Cooling capacity ASHRAE 7,2 / 32°C			Cooling capacity [W] at EN13215, ambient temp. 32[°C], t <sub>o</sub> [°C]									
	Cooling [W]	Cons. [W]	Cons. [A]	-20,0	-15,0	-10,0	-5,0	0	5,0	7,2 [°C]			10,0
										Cooling [W]	Cons. [W]	Cons. [A]	
UEMT6144GK	649	296	1,68	239	330	363	483	519	603	649	296	1,68	693
UEMT6152GK	676	581	1,94	259	326	395	470	549	631	676	581	1,94	716
UEMT6165GK	858	407	2,32	310	395	477	583	697	799	858	407	2,32	908
UNEK6144GK	600	380	2,02	240	298	359	423	490	564	600	380	2,02	640
UNEK6165GK	805	471	2,79	382	429	504	588	660	771	805	471	2,79	867
UNEK6181GK	1252	620	2,70	368	470	585	715	860	1020	1252	620	2,70	1130
UNEK6210GK	1302	628	3,91	501	594	604	826	986	1204	1302	628	3,91	1428
UNEK6213GK	1531	1074	5,97	633	802	966	1130	1292	1439	1531	1074	5,97	1787
UNEK6217GK	1946	799	4,10	697	873	1063	1268	1487	1720	1836	754	4,10	1968
UNE6210GK	1302	628	3,91	581	670	665	886	1032	1228	1302	628	3,91	1428
UNE9213GK	1502	843	3,92	626	785	945	1106	1267	1430	1502	843	3,92	1756
UNT6217GK	1912	882	5,30	688	849	1030	1231	1452	1692	1804	882	5,30	1953
UNT6220GK	2124	1095	5,15	684	908	1146	1403	1676	1970	2124	1095	5,15	2268
UNT6222GK	2390	1225	6,25	769	1022	1289	1579	1886	2216	2390	1225	6,25	2552
UNT6226GK	3016	1500	7,27	1091	1391	1706	2048	2414	2808	3016	1500	7,27	3210
UNJ9226GK	3141	1403	6,70	1047	1364	1701	2071	2473	2909	3141	1403	6,70	3360
UNJ9226GK-2	3141	1403	6,79	1047	1364	1701	2071	2473	2909	3141	1403	6,79	3360
UNJ9232GK	3474	1728	8,12	1217	1565	1929	2341	2770	3229	3474	1728	8,12	3696
UNJ9232GK-2	3474	1719	8,38	1214	15+6	1929	2341	2770	3229	3474	1719	8,38	3696
UNJ9238GK	4104	2221	10,01	1507	1905	2325	2942	3282	3819	4104	2221	10,01	4372
UNJ9238GK-2	4104	2221	11,19	1507	1905	2325	2942	3282	3819	4104	2221	11,19	4372

## Condensing units Embraco

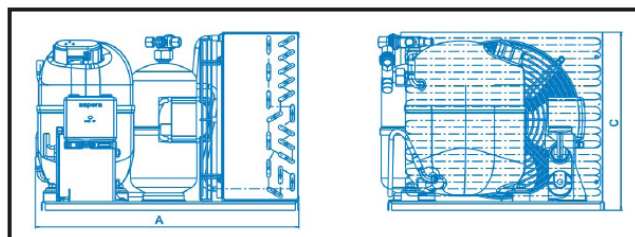
R-404A, R-507, MBP, 400 V

**Testing conditions :** EN13215 : Oil temperature +32°C, suction temperature 20°C/10 K, ambient temperature +32°C  
ASHRAE M/HBP evaporating temp. +7,2°C, suction temp. 32,2°C, ambient temp. +32°C



Code	Number of ventilators	Displ. [cm³]	Tubes		Dimensions [mm]			Weight [kg]
			suction	discharge	length	width	height	
47-32UNJ9226GS	1	20,71	5/8"	3/8"	512	410	390	42,5
47-32UNJ9232GS	1	26,11	5/8"	1/2"	600	440	372	43,8
47-32UNJ9238GS	1	32,67	5/8"	1/2"	600	440	372	45,3
<b>47-32UGNJ9232GS</b>	3	2 x 26,11	1/2"	3/8"	1093	551	311	87,0
<b>47-32UGNJ9238GS</b>	3	2 x 32,67	1/2"	3/8"	1093	551	311	87,0

Type	Cooling capacity ASHRAE 7,2 / 32[°C]			Cooling capacity [W] at EN13215, ambient temp. 32[°C], t <sub>o</sub> [°C]									
	Cooling [W]	Cons. [W]	Cons. [A]	-20,0	-15,0	-10,0	-5,0	0	5,0	7,2 [°C]			10,0
										Cooling [W]	Cons. [W]	Cons. [A]	
UNJ9226GS	2720	1300	2,78	1040	1351	1655	1951	2259	2565	2720	1300	2,78	2831
UNJ9232GS	3365	1685	3,35	1265	1646	2014	2376	2751	3124	3365	1685	3,35	3523
UNJ9238GS	4419	2332	4,49	1614	2012	2438	2920	3477	4012	4419	2332	4,49	4532
<b>UGNJ9232GS</b>	6730	3418	5,6	2844	3532	4230	1938	5660	6392	6730	3418	5,6	7138
<b>UGNJ9238GS</b>	8332	4370	7,2	3634	4594	5496	6314	7130	7966	8332	4370	7,2	8538



## Hausing for condensing units

Code	For units
47-32UJ-UT-KRYT	Hausing for condensing units Embraco UT, UJ, UNJ, UNT
47-32UNB-UNE-KRYT	Hausing for condensing units Embraco UNB, UNE

**Compressors  
Danfoss / Secop**

R-134a, HBP, MBP, 230 V

Code	Type	Displacement [cm <sup>3</sup> ]
47-32PL35G	PL 35 G	2,00
47-32TL4G	TL 4 G	3,86
47-32TL5G	TL 5 G	5,08
47-32FR7.5G	FR 7.5 G	6,93
47-32FR8.5G	FR 8.5 G	7,95
47-32FR10G	FR 10G	9,05
47-32FR11G	FR 11G	11,15
47-32SC10G	SC 10 G	10,29
47-32SC12G	SC 12 G	12,89
47-32SC15G	SC 15 G	15,28
47-32SC18G	SC 18 G	17,69
47-32SC21G	SC 21 G	20,95
47-32SC21-21G	SC 21 / 21 G	2 x 20,95



Type	Cooling capacity [W] (T <sub>o</sub> T <sub>11</sub> = +32 °C, T <sub>k</sub> = +55 °C)										
	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
PL 35 G			28	39,3	53	69,4	89	112	140	172	209
TL 4 G		40,8	58,3	80,3	107	140	180	226	280	342	413
TL 5 G		55,6	79	107	139	178	224	278	341	414	497
FR 7.5 G		65	103	148	195	250	313	395	500	620	
FR 8.5 G		82	126	178	232	298	380	470	580	710	
FR 10 G		90	138	191	252	320	412	515	630	775	
FR 11 G		110	170	235	310	385	495	625	775		
SC 10 G	25	60	115	190	265	365	480	610	760	910	1 105
SC 12 G	60	118	183	260	340	460	610	780	960	1 150	1 350
SC 15 G			164	290	424	568	728	908	1 110	1 340	1 600
SC 18 G			283	394	526	684	870	1 087	1 337	1 624	1 950
SC 21 G			333	453	606	792	1 012	1 268	1 560	1 889	2 256

**Compressors  
Danfoss / Secop**

R-134a, LBP, 230 V

Code	Type	Displacement [cm <sup>3</sup> ]
47-32PL50FX	PL 50 FX	6,00
47-32NL6F	NL 6 F	6,13
47-32NL7F	NL 7 F	7,27
47-32NL9F	NL 9 F	8,35
47-32NL11F	NL 11 F	11,15



Type	Cooling capacity [W] ( $t_o, t_{11} = +32^\circ\text{C}, t_k = +55^\circ\text{C}$ (EN 12900 / CECOMAF))						
	-35,0	-30,0	-25,0	-23,3	-20,0	-15,0	-10,0
PL50FX	14	26	40		56	74	95
NL6F	52	77	110	123	151	200	258
NL7F	71	99	136	151	182	238	303
NL9F	80	112	155	172	208	272	346
NL11F	102	144	200	223	271	356	455

## Compressors Danfoss / Secop

R-134a, MBP, 230 V

Code	Type	Displacement [cm <sup>3</sup> ]	Weight [kg]
47-32NL6.1MF	NL6.1MF	6,13	10,5
47-32NL7.3MF	NL7.3MF	7,27	10,5
47-32NL8.4MF	NL8.4MF	8,35	10,5
47-32NL10MF	NL10MF	10,1	10,5
47-32NL11MF	NL11MF	11,15	10,5



Type	Cooling capacity [W] ( $t_o, t_{11} = +32^\circ\text{C}, t_k = +55^\circ\text{C}$ (EN 12900 / CECOMAF))									
	-20,0	-15,0	-10,0	-6,7	-5,0	0	5,0	7,2	10,0	15,0
NL 6.1 MF	141	189	245	288	312	390	482	572	588	709
NL 7.3 MF	179	236	304	356	385	480	591	645	719	867
NL 8.4 MF	213	277	353	412	445	553	679	741	825	994
NL 10 MF	266	346	441	513	554	687	843	919	1023	1231
NL 11 MF	292	380	485	565	609	756	927	1011	1125	1354

## Compressors Danfoss / Secop

R-134a, HBP, 230 V

Code	Type	Displacement [cm <sup>3</sup> ]	Weight [kg]
47-32FR7GHX	FR7GH	6,93	10,6
47-32SC10GHX	SC10GH	10,29	12,2
47-32SC15GH	SC15GH	15,28	13,5
47-32SC18GH	SC18GH	17,69	13,7

Type	Cooling capacity [W] ( $T_o, t_{11} = +32^\circ\text{C}, t_k = +55^\circ\text{C}$ )								
	-15,0	-10,0	-5,0	0	5,0	7,2	10,0	15,0	20,0
FR7GH	199	255	327	417	525	580	655	807	
SC10GH	233	352	478	613	762		927	1113	1323
SC15GH		559	723	915	1139	1249	1398	1698	2041
SC18GH	485	639	825	1047	1310	1440	1618	1976	2389

**Compressors**  
**Danfoss / Secop**

R-407C, MBP/HBP, 230 V

Code	Type	Displacement [cm <sup>3</sup> ]	Weight [kg]
47-32SC10DL	SC 10 DL	10,29	17,1
47-32SC12DL	SC 12 DL	12,87	13,6
47-32SC15DL	SC 15 DL	15,28	13,8

Type	Cooling capacity [W] ( $t_o$ $t_{11} = +32^\circ\text{C}$ , $t_k = +55^\circ\text{C}$ (EN 12900 / CECOMAF))							
	-15,0	-10,0	-5,0	0	5,0	10,0	7,2	15,0
SC 10 DL	480	636	821	1039	1293	1588	1417	1927
SC 12 DL	632	831	1065	1340	1660	2031	1817	2456
SC 15 DL	977	1011	1293	1629	2023	2483	2217	3014

**Compressors**  
**Danfoss / Secop**

R-404A, R-507, LBP, 230 V

Code	Type	Displacement [cm <sup>3</sup> ]
47-32FR8.5CL	FR 8.5 CL	7,95
47-32SC10CL	SC 10 CL	10,29
47-32SC12CL	SC 12 CL	12,87
47-32SC15CL	SC 15 CL	15,28
47-32SC18CL	SC 18 CL	17,69
47-32SC21CL	SC 21 CL	20,95



Type	Cooling capacity [W] ( $t_o$ $t_{11} = +32^\circ\text{C}$ , $t_k = +55^\circ\text{C}$ (EN 12900 / CECOMAF))								
	-45,0	-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	-5,0
FR 8.5 CL	99	126	168	222	290	372	468	577	
SC 10 CL	-	-	168	258	365	483	634	800	991
SC 12 CL	58	140	237	353	490	650	835	1048	1 294
SC 15 CL	130	151	299	452	615	792	988	1 208	1 458
SC 18 CL	167	271	395	542	715	918	1 154	1 425	1 735
SC 21 CL	226	325	455	617	813	1 042	1 306	1 606	



## Compressors Danfoss / Secop

R606a, 230 V

Code	Type	Displacement [cm <sup>3</sup> ]	Weight [kg]
47-32TLES4.8KK.3	TLES 4.8 KK.3	4,78	6,4
47-32TLES5.7KK.3	TLES5.7 KK3	5,70	6,4
47-32TLES8.7KK.3	TLES 8.7 KK.3	5,70	6,8
47-32TLES7KK.2	TLES 7 KK.2	6,49	7,5
47-32TLES7.5KK.3	TLES 7.5 KK3	7,48	6,7
47-32TLES9KK.2	TLES 9 KK.2	8,83	7,6
47-32NLE11KK.2	NLE 11 KK.2	11,15	10,0
47-32NLE13KK.2	NLE 13 KK.2	13,25	10,0
47-32NLE15KK.2	NLE 15 KK.2	14,65	10,0
47-32NLX10KK.1	NLX 10 KK.1	10,09	10,7

Type	Cooling capacity [W] (t <sub>o</sub> t <sub>11</sub> = +32°C, t <sub>k</sub> = +55 °C (EN 12900 / CECOMAF))						
	-35,0	-30,0	-25,0	-23,3	-20,0	-15,0	-10,0
TLES 4.8 KK.3	27,5	40	55	60,7	72,9	94	119
TLES 5.7 KK.3		50,7	68	74,7	89	114	144
TLES 7 KK.2	40	57	77	85	101	130	163
TLES 7.5 KK.3	52,6	71,1	94	103	122	155	194
TLES 8.7 KK.3	62	83,3	110	120	143	181	228
TLES 9 KK.2	57	77	101	110	130	164	205
NLE 11 KK.2	78	103	133	144	169	214	271
NLE 13 KK.2	88	118	154	168	198	250	313
NLE 15 KK.2	95	130	172	188	223	284	357
NLX 10 KK.1	74	99	131	143	170	217	269

## Compressors Danfoss / Secop

R-134a, LBP/MBP/HBP, 12 - 24 V DC

Temperature range:  
-30°C to -10°C.

Code	Type	Cooling capacity [W] at t <sub>o</sub> = -25 °C (rpm / minute)			
		2000	2500	3000	3500
47-32BD35F	BD 35 F	23,9	29,9	32,4	35,9
47-32BD35F-T	compressor without electronic module				
47-32BD50F-T	compressor without electronic module				
47-32BD50F	BD 50 F	30	37,3	44,8	52,8

Code	Type	Cooling capacity [W] at t <sub>o</sub> = -25 °C (rpm / minute)			
		2500	3100	3800	4400
47-32BD80F	BD 80 F	49,5	59	70,5	78
47-32BD80F-K	compressor without electronic module				
47-32BD250GH	BD 250 GH	32,1	42,9	54,6	61,2

**Compressors**  
**Danfoss / Secop**

AC, R-134a, LBP, 160-254 V

Code	Type	Cooling capacity [W] at $t_o = -25\text{ °C}$ (rpm / minute)			
		2000	2500	3000	4000
47-32BD150F	BD 150 F	90	111	128	153

**Compressor's accessories**  
**Danfoss / Secop**

Code	Type	Description
47-32BDF101N	101NO210	Electronic module for compressors BD 35, 50
47-32BD80F-E	-	Electronic module for compressors BD 80

**Condensing units**  
**Danfoss Optyma Slim**

R-404A

**Optyma Slim Pack**

**Temperature range:** MBP R404A/507: -20 °C to +10 °C, cooling capacity from 3,4 to 10,6 [kW] .

Condenser: microchannel

Anti-corrosion surface

IP54, pressure switch: KP17WB



Code	Type	Compressor	Voltage
47-32114X7062	OP-SMLZ015ME	MLZ015	400V/3 phase compressor and 230V/1 phase ventilator
47-32114X7064	OP-SMLZ021ME	MLZ021	400V/3 phase compressor and 230V/1 phase ventilator
47-32114X7066	OP-SMLZ026ME	MLZ026	400V/3 phase compressor and 230V/1 phase ventilator
47-32114X7068	OP-SMLZ030ME	MLZ030	400V/3 phase compressor and 230V/1 phase ventilator
47-32114X7070	OP-SMLZ038ME	MLZ038	400V/3 phase compressor and 230V/1 phase ventilator
47-32114X7071	OP-SMLZ045ME	MLZ045	400V/3 phase compressor and 230V/1 phase ventilator
47-32114X7072	OP-SMLZ048ME	MLZ048	400V/3 phase compressor and 230V/1 phase ventilator

Type	Ambient temp. [°C]	Cooling capacity [W]						Dimensions [mm]			Weight [kg]
		-15,0	-10,0	-5,0	0	5,0	10,0	height	widht	lenght	
OP-SMLZ015ME	38	2 400	2 950	3 900	4 250	5 000	5 800	695	1 106	464	66
	43	2 100	2 600	3 150	3 750	4 450	5 200				
OP-SMLZ021ME	38	3 350	4000	4 750	5 550	6 500	7 500	695	1 106	464	66
	43	2 950	3 550	4 200	4 950	5 800	6 750				
OP-SMLZ026ME	38	3 900	4 650	5 500	6 450	7 450	8 550	695	1 106	464	66
	43	3 400	4 100	4 850	5 700	6 600	7 600				
OP-SMLZ030ME	38	5 400	6550	7 850	9 300	10 950	12 800	830	1 106	464	87
	43	4 800	5 850	7 050	8 400	9 900	11 600				
OP-SMLZ038ME	38	6 250	7 550	9 050	10 700	12 550	14 600	830	1 106	464	87
	43	5 600	6 750	8 100	9 600	11 300	13 200				
OP-SMLZ045ME	27	9 000	10 800	12 800	15 000	17 400	20 000	830	1 106	464	87
	32	8 250	9 900	11 750	13 800	16 050	18 500				
	38	7 250	8 750	10 450	12 300	14 350	16 650				
	43	6 400	7 750	9 300	11 000	12 900	15 000				
OP-SMLZ048ME	27	9 700	11 600	13 700	16 000	18 550	21 350	830	1 106	464	87
	32	8 850	10 600	12 550	14 700	17 050	19 700				
	38	7 800	9 350	11 100	13 050	15 200	17 650				
	43	6 900	8 300	9 850	11 650	13 650	15 900				

## Compressors Maneurop

R-404A, R-407C, 230 V

Compressors are supplied without module, it must be ordered separately, see page 38.

Code	Type	Displ. [cm³]	Connection - Rotalock		Cooling capacity R-407C in +7,2 / 54,4 °C		
			suction	discharge	cooling cap. [W]	consump. [W]	consump. [A]
47-32MTZ18-1F	MTZ-18JE5V	30,23	1" - 12mm	1" - 10 mm	3 847	1377	2,86
47-32MTZ22-1F	MTZ-22JE5V	38,12	1" - 12 mm	1" - 10 mm	5 021	1857	3,47
47-32MTZ28-1F	MTZ-28JE5V	48,06	1" - 12 mm	1" - 10 mm	6 536	2361	4,57

Type	Cooling capacity [W], R-404A, according EN 12900																		
	t <sub>o</sub>	-30,0		-25,0		-20,0		-15,0		-10,0		-5,0		0		5,0		10,0	
	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
MTZ 18	30	642	702	996	823	1448	931	2012	1024	2700	1102	3524	1163	4496	1205	5630	1228	6937	1229
	40	468	690	761	826	1133	953	1597	1068	2164	1171	2847	1260	3659	1334	4613	1392	5720	1431
	50	313	686	546	836	839	979	1203	1114	1651	1240	2195	1355	2848	1459	3623	1549	4531	1625
	60	-	-	345	856	559	1014	825	1167	1156	1314	1562	1454	2058	1585	2654	1706	3365	1816
MTZ 22	30	1070	893	1535	1017	2125	1128	2856	1224	3744	1305	4804	1369	6052	1414	7504	1440	9176	1443
	40	774	879	1156	1032	1643	1176	2251	1309	2995	1428	3891	1534	4954	1624	6201	1697	7647	1752
	50	515	832	809	1019	1187	1198	1665	1370	2259	1532	2985	1683	3857	1821	4892	1945	6106	2054
	60	-	-	503	980	765	1199	1108	1413	1545	1620	2094	1819	2769	2009	3587	2188	4563	2354
MTZ 28	30	1417	1106	2050	1291	2825	1462	3757	1614	4866	1747	6168	1856	7683	1940	9428	1996	11421	2020
	40	963	1076	1503	1300	2159	1511	2951	1708	3896	1888	5011	2047	6315	2184	7826	2295	9562	2378
	50	570	1016	1012	1283	1546	1541	2193	1787	2969	2019	3892	2232	4982	2426	6254	2598	7728	2743
	60	-	-	578	1234	986	1543	1483	1842	2086	2130	2813	2403	3682	2659	4712	2895	5920	3109

 t<sub>o</sub>: evaporating temperature [°C]  
 t<sub>k</sub>: condensing temperature [°C]

 Q<sub>o</sub>: cooling capacity [W]  
 P: power input [W]

**Compressors  
Maneurop**

R-134,R-404A, R-507, 400 V

Temperature range: -25 °C to +10 °C.

Ester oil: 160 PZ.

Voltage: 380 - 420 V / 50 Hz.

Code	Swept volume [cm <sup>3</sup> ]	Connection - Rotalock		Cooling capacity R-407C, +7,2 / 54,4 °C			Weight [kg]
		suction	discharge	cooling cap. [W]	consump. [W]	consump. [A]	
47-32MTZ18JA4V	30,23	1" - 12 mm	1" - 10 mm	3 847	1377	2,86	21,00
47-32MTZ22JC4V	38,12	1" - 12 mm	1" - 10 mm	5 021	1857	3,47	21,00
47-32MTZ28JE4V	48,06	1" - 12 mm	1" - 10 mm	6 536	2361	4,57	23,00
47-32MTZ32JF4V	53,86	1.1/4" - 16 mm	1" - 12 mm	7 335	2655	4,90	24,00
47-32MTZ36JG4V	60,47	1.1/4" - 16 mm	1" - 12 mm	8 283	3206	5,99	25,00
47-32MTZ40JH4V	67,89	1.1/4" - 16 mm	1" - 12 mm	9 582	3712	6,92	26,00
47-32MTZ44HJ4V	76,22	1.3/4" - 22 mm	1.1/4" - 18 mm	10 096	3376	6,18	37,00
47-32MTZ50HK4V	85,64	1.3/4" - 22 mm	1.1/4" - 18 mm	11 531	4007	6,95	38,00
47-32MTZ56HL4V	96,13	1.3/4" - 22 mm	1.1/4" - 18 mm	12 999	4367	7,91	40,00
47-32MTZ64HM4V	107,71	1.3/4" - 22 mm	1.1/4" - 18 mm	14 851	5016	8,91	40,50
47-32MTZ72HN4V	120,94	1.3/4" - 22 mm	1.1/4" - 18 mm	17 047	5873	10,48	40,50
47-32MTZ80HP4V	135,78	1.3/4" - 28 mm	1.1/4" - 18 mm	19 333	6825	12,08	40,50
47-32MTZ100HS4V	171,26	1.3/4" - 28 mm	1.1/4" - 18 mm	22 699	7997	13,83	60,00
47-32MTZ125HU4V	215,44	1.3/4" - 28 mm	1.1/4" - 18 mm	29 788	10325	16,28	64,00
47-32MTZ144HV4V	241,87	1.3/4" - 28 mm	1.1/4" - 18 mm	33 067	11586	18,80	67,00
47-32MTZ160HW4V	271,55	1.3/4" - 28 mm	1.1/4" - 18 mm	37 819	13457	21,50	67,00

Type	Cooling capacity [W], R-404A, according EN 12900, superheat 10K, subcooling 0K																								
	t <sub>o</sub>	-30,0			-25,0			-20,0			-15,0			-10,0			-5,0			0		5,0		10,0	
	t <sub>x</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P		
MTZ 18	30	642	702	996	823	1448	931	2012	1024	2700	1102	3524	1163	4496	1205	5630	1228	6937	1229						
	40	468	690	761	826	1133	953	1597	1068	2164	1171	2847	1260	3659	1334	4613	1392	5720	1431						
	50	313	686	546	836	839	979	1203	1114	1651	1240	2195	1355	2848	1459	3623	1549	4531	1625						
	60	-	-	345	856	559	1014	825	1167	1156	1314	1562	1454	2058	1585	2654	1706	3365	1816						
MTZ 22	30	1070	893	1535	1017	2125	1128	2856	1224	3744	1305	4804	1369	6052	1414	7504	1440	9176	1443						
	40	774	879	1156	1032	1643	1176	2251	1309	2995	1428	3891	1534	4954	1624	6201	1697	7647	1752						
	50	515	832	809	1019	1187	1198	1665	1370	2259	1532	2985	1683	3857	1821	4892	1945	6106	2054						
	60	-	-	503	980	765	1199	1108	1413	1545	1620	2094	1819	2769	2009	3587	2188	4563	2354						
MTZ 28	30	1417	1106	2050	1291	2825	1462	3757	1614	4866	1747	6168	1856	7683	1940	9428	1996	11421	2020						
	40	963	1076	1503	1300	2159	1511	2951	1708	3896	1888	5011	2047	6315	2184	7826	2295	9562	2378						
	50	570	1016	1012	1283	1546	1541	2193	1787	2969	2019	3892	2232	4982	2426	6254	2598	7728	2743						
	60	-	-	578	1234	986	1543	1483	1842	2086	2130	2813	2403	3682	2659	4712	2895	5920	3109						
MTZ 32	30	1757	1246	2453	1436	3305	1610	4335	1767	5561	1904	7003	2021	8682	2115	10616	2187	12826	2234						
	40	1271	1227	1864	1463	2589	1685	3464	1892	4509	2083	5745	2256	7191	2409	8867	2542	10793	2654						
	50	828	1154	1308	1441	1893	1716	2603	1980	3457	2229	4476	2464	5679	2682	7085	2882	8715	3063						
	60	-	-	796	1367	1231	1701	1764	2026	2417	2340	3207	2642	4155	2930	5281	3203	6605	3460						

Type	Cooling capacity [W], R-404A, according EN 12900, superheat 10K, subcooling 0K																		
	$t_o$	-30,0		-25,0		-20,0		-15,0		-10,0		-5,0		0		5,0		10,0	
	$t_k$	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P
MTZ 36	30	2064	1473	2857	1685	3827	1882	4996	2060	6384	2216	8013	2346	9904	2446	12078	2512	14557	2541
	40	1554	1504	2243	1764	3073	2013	4067	2248	5245	2465	6630	2660	8241	2830	10101	2970	12230	3078
	50	1046	1476	1624	1789	2311	2096	3125	2393	4089	2677	5225	2942	6552	3187	8093	3407	9868	3598
	60	-	-	1001	1748	1538	2119	2169	2483	2914	2838	3796	3180	4835	3505	6052	3809	7469	4089
MTZ 40	30	2448	1685	3330	1940	4396	2176	5669	2393	7172	2590	8925	2766	10953	2921	13277	3056	15919	3169
	40	1885	1703	2659	2013	3581	2302	4674	2571	5959	2818	7461	3043	9200	3247	11200	3429	13482	3587
	50	1314	1689	1968	2070	2734	2430	3635	2767	4693	3083	5930	3375	7370	3644	9033	3890	10944	4112
	60	-	-	1262	2077	1860	2524	2557	2949	3376	3349	4338	3726	5466	4079	6782	4406	8308	4709
MTZ 44	30	2260	1645	3170	1882	4298	2093	5674	2282	7331	2449	9300	2596	11613	2727	14301	2841	17396	2943
	40	1663	1635	2460	1935	3433	2207	4613	2450	6033	2668	7724	2863	9717	3035	12044	3188	14737	3323
	50	1062	1541	1735	1924	2543	2272	3517	2589	4689	2875	6090	3134	7753	3366	9708	3574	11989	3760
	60	-	-	1008	1823	1640	2266	2397	2673	3310	3045	4411	3385	5733	3695	7306	3976	9162	4231
MTZ 50	30	2747	1933	3839	2197	5204	2439	6879	2656	8899	2846	11300	3005	14117	3131	17386	3223	21143	3277
	40	2021	1948	2922	2269	4047	2569	5430	2846	7106	3098	9112	3322	11484	3515	14256	3676	17464	3802
	50	1390	1907	2108	2293	2997	2661	4093	3008	5432	3331	7050	3629	8981	3899	11262	4139	13929	4345
	60	-	-	1367	2256	2027	2701	2842	3127	3850	3532	5085	3913	6582	4269	8378	4596	10508	4893
MTZ 56	30	2833	2050	4001	2351	5466	2635	7268	2896	9449	3130	12051	3334	15115	3503	18682	3632	22794	3718
	40	2074	2055	3049	2413	4266	2757	5765	3082	7588	3383	9776	3657	12371	3898	15415	4104	18948	4269
	50	1414	2002	2205	2433	3182	2853	4386	3256	5859	3640	7643	3999	9778	4329	12306	4626	15268	4886
	60	-	-	1426	2377	2172	2888	3090	3386	4222	3867	5609	4327	7293	4761	9314	5165	11714	5535
MTZ 64	30	3529	2404	4868	2781	6542	3131	8600	3449	11094	3733	14074	3981	17592	4189	21697	4355	26442	4476
	40	2602	2372	3744	2836	5160	3274	6900	3683	9017	4060	11559	4403	14579	4708	18127	4973	22254	5195
	50	1735	2240	2667	2802	3813	3340	5224	3851	6950	4332	9043	4780	11553	5194	14530	5569	18027	5904
	60	-	-	1645	2656	2508	3305	3577	3930	4901	4526	6531	5093	8518	5626	10913	6123	13766	6581
MTZ 72	30	4049	2764	5567	3166	7457	3541	9763	3886	12535	4196	15819	4469	19661	4701	24109	4887	29209	5025
	40	3007	2756	4262	3234	5828	3692	7752	4126	10082	4533	12864	4909	16146	5250	19974	5552	24395	5813
	50	2135	2710	3123	3265	4364	3806	5903	4330	7789	4833	10067	5312	12785	5763	15991	6182	19730	6565
	60	-	-	2111	3284	3023	3908	4175	4522	5614	5122	7386	5704	9538	6265	12119	6801	15173	7308
MTZ 80	30	4896	3159	6633	3667	8753	4129	11303	4552	14335	4941	17897	5301	22039	5637	26809	5953	32258	6257
	40	3722	3179	5206	3806	7003	4380	9162	4906	11733	5391	14765	5838	18307	6254	22410	6643	27121	7010
	50	2646	3093	3873	3859	5344	4566	7108	5217	9215	5819	11713	6375	14653	6892	18083	7375	22053	7828
	60	-	-	2587	3800	3728	4661	5094	5458	6732	6198	8693	6885	11027	7524	13782	8121	17007	8681
MTZ 100	30	5175	3997	7247	4532	9826	5003	12976	5409	16759	5750	21239	6025	26480	6233	32545	6374	39497	6447
	40	3917	4069	5730	4769	7937	5401	10602	5963	13787	6456	17556	6877	21973	7227	27101	7505	33003	7710
	50	2532	3869	4102	4766	5953	5590	8148	6340	10751	7015	13824	7614	17432	8137	21638	8583	26505	8951
	60	-	-	2336	4452	3846	5499	5587	6467	7622	7355	10015	8163	12829	8890	16129	9535	19976	10098
MTZ 125	30	7283	5064	9943	5716	13245	6320	17267	6867	22089	7350	27791	7764	34451	8100	42148	8351	50963	8510
	40	5457	5154	7649	5949	10377	6711	13721	7433	17760	8108	22574	8729	28242	9289	34842	9780	42455	10195
	50	3927	5147	5648	6079	7800	6995	10464	7887	13719	8747	17643	9570	22316	10348	27818	11073	34227	11740
	60	-	-	3865	6164	5440	7228	7422	8284	9889	9325	12922	10344	16599	11335	20999	12289	26202	13201

$t_o$ : evaporating temperature [°C]  
 $t_k$ : condensing temperature [°C]

$Q_o$ : cooling capacity [W]  
 P: power input [W]

Type	Cooling capacity [W], R-404A, according EN 12900, superheat 10K, subcooling 0K																		
	$t_o$	-30,0		-25,0		-20,0		-15,0		-10,0		-5,0		0		5,0		10,0	
	$t_k$	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P
MTZ 144	30	8775	5941	11826	6670	15554	7347	20045	7965	25383	8516	31654	8992	38944	9385	47339	9688	56922	9892
	40	6685	6077	9282	6967	12441	7822	16247	8635	20785	9398	26142	10104	32402	10744	39650	11310	47973	11795
	50	4764	6054	6870	7105	9422	8138	12506	9146	16208	10122	20612	11057	25805	11944	31871	12774	38896	13540
	60	-	-	4580	7114	6489	8325	8814	9529	11641	10717	15056	11881	19144	13015	23991	14109	29681	15156
MTZ 160	30	9609	6678	12945	7512	17010	8282	21898	8999	27702	9675	34515	10323	42432	10955	51545	11583	61948	12220
	40	7339	6811	10192	7853	13652	8832	17811	9760	22764	10650	28602	11514	35421	12364	43314	13212	52373	14071
	50	5254	6760	7584	8017	10399	9214	13789	10363	17850	11475	22675	12563	28356	13640	34988	14717	42663	15806
	60	-	-	5094	8084	7222	9507	9805	10884	12934	12228	16705	13549	21209	14861	26540	16175	32792	17504

$t_o$ : evaporating temperature [°C]  
 $t_k$ : condensing temperature [°C]

$Q_o$ : cooling capacity [W]  
 P: power input [W]

### Maneurop compressor's accessories

Code	Type	Description
47-32MTZ-RELE	MTZ-RELE	rele for compressors Maneurop MT/MTZ 18, 22, 28, LZ/LTZ 22, 28
47-32MT-MTZ-VYH	MT-MTZ-VYH	crankcase heater Maneurop
47-32MT-MTZ-KRYT-1	MT-MTZ-KRYT-1	cover for terminal box for compressors Maneurop MT (MTZ) 18 - 64
47-32MT-MTZ-KRYT-2	MT-MTZ-KRYT-2	cover for terminal box for compressors MT (MTZ) 80 - 160
47-32037N0076	037N0076	softstarter Danfoss, 15A, 3 phase, 400V
47-32037N0077	037N0077	softstarter DANFOSS, MCI 25C,25A,3 phase, 50 Hz, 400 V
47-32037N0086	037N0086	softstarter DANFOSS, TCI 25C, 25A, 50Hz, 230 V
47-32037N0096	037N0096	softstarter DANFOSS, MCI 15CH,15A,3 phase,50 Hz, 400 V
47-32037N0097	037N0097	softstarter DANFOSS, MCI 25CH,25A,3 phase,50 Hz, 400 V



## Compressors Maneurop SALES

R22, 400 V

**Temperature range:** -25 °C to +10 °C. Mineral oil: 160P. Voltage 380 - 420 V / 50 Hz.  
Nominal performance at +7,2 °C and condensing temperature +54,4 °C.

Code	Type	Nominal performance			Connection - Rotalock		Swept volume [cm <sup>3</sup> ]	Weight [kg]
		cooling [W]	consump. [kW]	[A]	suction	discharge		
47-32MT28JE4V	MT - 28 JE 4V	7378	2,55	4,56	1"-12 mm	1"-10 mm	48,06	23,0
47-32MT36JG4V	MT - 36 JG 4V	9272	3,37	5,77	1.1/4"-16mm	1"-12 mm	60,47	25,0
47-32MT40JH4V	MT - 40 JH 4V	10475	3,85	6,47	1.1/4"-16mm	1"-12 mm	67,89	26,0
47-32MT64HM4V	MT - 64 HM 4V	15820	5,66	9,54	1.3/4"-22mm	1.1/4"-18mm	107,71	40,5
47-32MT160HW4V	MT - 160 HW 4V	38273	13,39	22,16	1.3/4"-28mm	1.1/4"-18mm	271,55	67,0

Type	Cooling capacity [W] R-22																			
	t <sub>o</sub>	-25,0		-20,0		-15,0		-10,0		-5,0		0		5,0		10,0		15,0		
	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	
MT 28	30	2150	1,18	2950	1,35	3880	1,5	4940	1,62	6150	1,71	7520	1,76	9060	1,76	10790	1,7	12710	1,57	
	40	1690	1,22	2450	1,41	3330	1,59	4320	1,75	5460	1,89	6750	1,99	8190	2,05	9810	2,06	11610	2,01	
	50	-	-	-	-	2730	1,65	3660	1,87	4700	2,06	5890	2,23	7220	2,36	8720	2,44	10390	2,48	
	60	-	-	-	-	-	-	-	-	3880	2,21	4950	2,45	6160	2,66	7510	2,84	9030	2,97	
MT 36	30	2910	1,52	3920	1,71	5070	1,89	6390	2,06	7870	2,21	9540	2,33	11410	2,41	13490	2,46	15790	2,46	
	40	2280	1,63	3240	1,84	4330	2,05	5580	2,25	6980	2,44	8550	2,61	10310	2,75	12260	2,85	14420	2,92	
	50	-	-	-	-	3560	2,2	4710	2,45	6010	2,69	7470	2,91	9090	3,11	10900	3,29	12910	3,43	
	60	-	-	-	-	-	-	-	-	4980	2,94	6300	3,22	7780	3,5	9430	3,75	11260	3,97	
MT 40	30	3190	1,54	4270	1,8	5500	2,04	6900	2,24	8480	2,41	10250	2,52	12230	2,57	14440	2,54	16880	2,43	
	40	2430	1,71	3480	2	4680	2,28	6030	2,54	7570	2,77	9290	2,95	11210	3,07	13340	3,13	15700	3,11	
	50	-	-	-	-	3830	2,47	5140	2,79	6610	3,08	8270	3,34	10110	3,56	12160	3,71	14440	3,8	
	60	-	-	-	-	-	-	-	-	5630	3,34	7210	3,69	8970	4,01	10930	4,27	13100	4,47	
MT 64	30	4400	2,18	6010	2,56	7940	2,92	10230	3,25	12920	3,52	16050	3,73	19660	3,86	23800	3,89	28510	3,81	
	40	3470	2,47	4960	2,89	6740	3,31	8850	3,69	11320	4,04	14200	4,34	17530	4,56	21360	4,7	25710	4,75	
	50	-	-	4100	3,11	5690	3,59	7570	4,06	9780	4,5	12370	4,9	15370	5,23	18830	5,5	22790	5,68	
	60	-	-	-	-	-	-	6460	4,31	8370	4,86	10620	5,37	13250	5,84	16310	6,25	19830	6,58	
MT 160	30	11950	6,15	15720	6,86	20310	7,53	25820	8,13	32360	8,64	40030	9,04	48960	9,3	59250	9,39	71010	9,29	
	40	9660	6,72	13120	7,52	17300	8,31	22310	9,06	28250	9,75	32250	10,35	43410	10,84	52840	11,19	63640	11,37	
	50	-	-	10810	8	14460	8,95	18850	9,88	24090	10,79	30290	11,63	37560	12,38	46000	13,02	55740	13,52	
	60	-	-	-	-	-	-	15550	10,54	19960	11,69	25240	12,8	31500	13,86	38840	14,82	47390	15,68	

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

**Compressors  
Maneurop NTZ**

R-404A, LBP

Temperature range: -45 to -10°C.

Code	Type	Nominal capacity [W] R404 at -35/+40 [°C], superheat 10[K]			Swept volume [cm <sup>3</sup> ]	Evaporating temp. range [°C]
		cooling cap. [W]	power input			
			[W]	[A]		
47-32NTZ048	NTZ048A4LR1A	860	868	2,08	48	-45 až -10
47-32NTZ068	NTZ068A4LR1A	1513	1516	3,42	68	-45 až -10
47-32NTZ096	NTZ096A4LR1A	1731	1734	3,29	96	-45 až -10
47-32NTZ108	NTZ108A4LR1A	2131	2079	4,53	108	-45 až -10
47-32NTZ136	NTZ136A4LR1A	2788	2896	6,1	136	-45 až -10
47-32NTZ215	NTZ215A4LR1A	4277	4149	7,52	215	-45 až -10
47-32NTZ271	NTZ271A4LR1A	6012	5623	9,65	271	-45 až -10

Type	Displ. [m <sup>3</sup> ]	Connection		Dimensions ø [mm]	Weight [kg]
		suction	discharge		
NTZ048	8,3	1.1/4" - 16 mm ODF	1" - 12 mm ODF	224 / 333	21
NTZ068	11,8	1.1/4" - 16 mm ODF	1" - 12 mm ODF	224 / 333	23
NTZ096	16,7	1.3/4" - 22 mm ODF	1.1/4" - 18 mm ODF	288 / 413	35
NTZ108	18,8	1.3/4" - 22 mm ODF	1.1/4" - 18 mm ODF	288 / 413	35
NTZ136	23,7	1.3/4" - 28 mm ODF	1.1/4" - 18 mm ODF	288 / 413	35
NTZ215	37,4	1.3/4" - 28 mm ODF	1.1/4" - 18 mm ODF	352 / 519	62
NTZ271	47,1	1.3/4" - 28 mm ODF	1.1/4" - 18 mm ODF	352 / 519	64

Type	Cooling capacity [W], R404A, R507A according EN 12900, superheat 10 [K]														
	t <sub>o</sub>	-40,0		-35,0		-30,0		-25,0		-20,0		-15,0		-10,0	
	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
NTZ 048	30	774	698	1160	899	1636	1091	2211	1268	2896	1420	3700	1541	4635	1622
	40	538	635	860	868	1255	1102	1732	1328	2303	1539	2977	1727	3766	1884
	50	312	528	568	789	879	1058	1257	1328	1711	1592	2252	1842	2893	2069
	60	-	-	298	648	523	947	797	1257	1132	1568	1537	1874	2025	2166
NTZ 068	30	1427	1243	2010	1448	2722	1655	3577	1866	4593	2085	5784	2314	7167	2554
	40	1035	1273	1513	1516	2096	1763	2800	2017	3642	2280	4638	2555	5805	2843
	50	711	1276	1089	1564	1551	1858	2112	2161	2787	2475	3595	2802	4553	3145
	60	-	-	719	1591	1064	1939	1487	2297	2002	2668	2628	3055	3383	3459
NTZ 096	30	1647	1478	2343	1789	3237	2092	4363	2384	5750	2660	7430	2916	9437	3146
	40	1152	1367	1731	1734	2483	2119	3442	2517	4639	2925	6108	3337	7884	3750
	50	673	1198	1111	1594	1697	2033	2463	2511	3442	3024	4669	3566	6183	4133
	60	-	-	-	-	953	1854	1500	2384	2231	2974	3185	3619	4402	4314
NTZ 108	30	1995	1741	2857	2089	3936	2428	5257	2754	6849	3066	8738	3364	10951	3646
	40	1404	1658	2131	2079	3035	2496	4142	2907	5481	3312	7079	3708	8965	4095
	50	841	1460	1422	1956	2142	2457	3027	2959	4104	3460	5402	3959	6952	4456
	60	-	-	-	-	1286	2297	1937	2892	2742	3494	3729	4101	4930	4712



## Compressors Maneurop NTZ

R-404A, LBP

Type	Cooling capacity [W], R404A, R507A according EN 12900, superheat 10 [K]														
	$t_o$	-40,0		-35,0		-30,0		-25,0		-20,0		-15,0		-10,0	
	$t_k$	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P
NTZ 136	30	2617	2400	3661	2893	4961	3358	6552	3787	8469	4173	10749	4509	13426	4788
	40	1911	2329	2788	2896	3882	3461	5228	4017	6862	4557	8823	5073	11147	5560
	50	1243	2209	1941	2825	2817	3467	3905	4126	5243	4796	6871	5470	8828	6140
	60	-	-	-	-	1793	3495	2609	4234	3635	5010	4911	5817	6483	6647
NTZ 215	30	4019	3426	5641	4096	7623	4730	10008	5307	12842	5800	16169	6188	20033	6447
	40	2854	3314	4277	4149	6014	4990	8110	5811	10610	6590	13563	7303	17016	7926
	50	1627	2954	2787	3929	4215	4950	5954	5991	8054	7030	10564	8043	13537	9006
	60			1342	3398	2391	4574	3704	5810	5330	7083	7322	8370	9737	9648
NTZ 271	30	5504	4592	7663	5420	10324	6247	13549	7070	17400	7887	21940	8695	27231	9493
	40	4162	4649	6012	5623	8285	6607	11044	7598	14353	8594	18278	9592	22885	10589
	50	2776	4512	4264	5647	6097	6802	8338	7975	11052	9164	14306	10365	18173	11577
	60			2533	5442	3872	6783	5540	8153	7599	9549	10122	10968	13186	12408

$t_o$ : evaporating temperature [°C]  
 $t_k$ : condensing temperature [°C]

$Q_o$ : cooling capacity [W]  
 P: power input [W]

## Compressors Maneurop SZ Scroll

R-134a, R-404A, 400 V

Temperature range: -25 °C to +10 °C. Ester oil: 160 PZ. Voltage 380 - 420 V / 50 Hz.

Code	Nominal capacity R407C at +7,2/+54,4 [°C], ARI			Swept volume [cm <sup>3</sup> ]	Displ. [m <sup>3</sup> /h]	Connection ODF		Dimension ø [mm]	Weight [kg]
	cooling [W]	consump. [W]	consump. [A]			suction	discharge		
47-32SZ90-4VI	20386	6446	11,74	120,5	21,00	1.1/8"	3/4"	254 / 508	65
47-32SZ100-4VI	21575	6841	12,48	127,2	22,10	1.1/8"	3/4"	254 / 508	65
47-32SZ110-4VI	24598	7764	14,22	144,2	25,10	1.3/8"	7/8"	254 / 558	73
47-32SZ115-4RI				155	27,00	1.3/4"	1.1/4"	253 / 579	78
47-32SZ120-4VI	28553	8994	16,53	166,6	29,00	1.3/8"	7/8"	254 / 558	73
47-32SZ125-4RI				166,6	29,00	1.3/4"	1.1/4"	253 / 579	78
47-32SZ160-4RAI				216,6	37,70	2.1/4"	1.3/4"	266 / 631	90
47-32SZ175-4RI	40106	12667	22,41	233	40,50	2.1/4"	1.3/4"	317 / 678	100
47-32SZ185-4RI	43092	13619	24,1	249,9	43,50	2.1/4"	1.3/4"	317 / 678	100
47-32SZ240-4A	59104	18553	31,17	347,8	60,50	2.1/4"	1.3/4"	344 / 726,9	150
47-32SZ300-4AMAI	72743	22734	38,31	437,5	76,10	2.1/4"	1.3/4"	344 / 737,9	157

$t_o$ : evaporating temperature [°C]  
 $t_k$ : condensing temperature [°C]

$Q_o$ : cooling capacity [W]  
 P: power input [W]

Type	Cooling capacity [W], R407C, EN12900																
	t <sub>0</sub>	-20,0		-15,0		-10,0		-5,0		0		5,0		10,0		15,0	
	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
SZ 090	30	7599	3679	9725	3721	12286	3754	15332	3776	18911	3782	23071	3771	27861	3738	33332	3681
	40	6562	4563	8538	4609	10907	4648	13713	4676	17007	4690	20835	4688	25247	4666	30291	4620
	50	-	-	-	-	9358	5777	11864	5814	14811	5838	18246	5846	22217	5836	26773	5804
	60	-	-	-	-	-	-	-	-	12325	7275	15304	7296	18771	7300	22773	7284
SZ 100	30	8077	3899	10331	3942	13043	3977	16262	3999	20038	4005	24421	3993	29464	3960	35215	3901
	40	6975	4849	9074	4895	11582	4932	14549	4959	18026	4970	22061	4964	26706	4937	32010	4886
	50	-	-	-	-	9933	6152	12585	6183	15697	6201	19320	6202	23501	6182	28292	6140
	60	-	-	-	-	-	-	-	-	13062	7754	16206	7763	19858	7753	24067	7720
SZ 110	30	9302	4411	11883	4455	14976	4491	18663	4514	22911	4520	27862	4508	33544	4472	40010	4409
	40	8018	5519	10424	5562	13288	5596	16663	5617	20604	5622	25165	5606	30400	5567	36364	5501
	50	-	-	-	-	11391	7029	14412	7048	17945	7048	22042	7050	26758	7031	32146	6918
	60	-	-	-	-	-	-	-	-	14938	8876	18498	8854	22620	8808	27356	8733
SZ 115	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SZ 120	30	10889	5043	13929	5109	17524	5159	21748	5190	26676	5201	32383	5189	38943	5152	46431	5088
	40	9391	6379	12248	6446	15589	6489	19489	6506	24021	6496	29261	6455	35283	6383	42162	6277
	50	-	-	-	-	13325	8155	16833	8185	20903	8179	25609	8137	31027	8056	37231	7933
	60	-	-	-	-	-	-	-	-	17410	10307	21517	10289	26263	10225	31725	10112
SZ 125	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SZ 160	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SZ 175	30	15352	7140	19551	7215	24558	7283	30458	7337	37334	7375	45272	7394	54354	7387	64666	7353
	40	13314	8890	17230	8969	21871	9041	27319	9102	33657	9147	40969	9173	49338	9176	58849	9153
	50	-	-	-	-	18827	11302	23709	11370	29394	11424	35965	11460	43505	11474	52096	11463
	60	-	-	-	-	-	-	-	-	24530	14317	30243	14365	36834	14392	44384	14394
SZ 185	30	17693	7675	22504	7756	28237	7828	34983	7887	42837	7928	51893	7947	62245	7941	73985	7904
	40	15504	9561	20036	9646	25397	9724	31682	9789	38983	9837	47395	9866	57011	9869	67925	9844
	50	-	-	-	-	22159	12153	27858	12226	34483	12284	42127	12323	50885	12338	60849	12326
	60	-	-	-	-	-	-	-	-	29315	15393	36069	15444	43845	15473	52736	15476
SZ 240	30	22179	10577	28382	10687	35758	10818	44467	10958	54671	11096	66532	11220	80209	11320	95865	11385
	40	19313	12937	25061	13041	31840	13180	39811	13343	49137	13520	59977	13697	72493	13865	86846	14013
	50	-	-	21504	16046	27576	16189	34700	16371	43036	16581	52746	16807	63991	17038	76931	17263
	60	-	-	-	-	23084	20097	29249	20293	36486	20531	44956	20801	54819	21090	66237	21389
SZ 300	30	27955	12224	35114	12358	43610	12495	53631	12642	65362	12803	78990	12986	94702	13197	112684	13442
	40	25038	15233	31803	15501	39774	15757	49139	16008	60083	16259	72794	16517	87457	16788	104259	17079
	50	-	-	27798	19118	34991	19504	43445	19869	53349	20220	64887	20564	78247	20905	93615	21251
	60	-	-	-	-	29569	23972	36859	24462	45468	24924	55580	25362	67382	25784	81062	26196

## Compressors Copeland ZBD - digital, solder

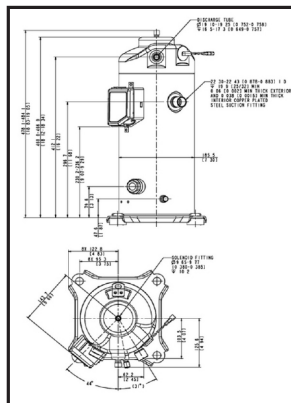
R-404A, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Displ. [m <sup>3</sup> /h]	Connection - Rotalock		Oil volume [l]	Weight [kg]
			suction	discharge		
47-32ZBD30	ZBD30KCE-TFD-551	12	1.1/4	1"	1,89	37
47-32ZBD38	ZBD38KCE-TFD-551	14	1.1/4	1"	1,89	38
47-32ZBD45	ZBD45KCE-TFD-551	17	1.1/4	1"	1,89	40

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW] R404A															
		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0	
		t <sub>o</sub>	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZBD30KCE-TFD	30	5,91	2,21	7,18	2,32	8,65	2,41	10,35	2,51	12,25	2,64	14,40	2,82	15,35	2,90	16,80	3,05
	40	5,14	2,65	6,27	2,77	7,57	2,87	9,07	2,96	10,75	3,07	12,70	3,20	13,50	3,26	14,85	3,38
	50	4,35	3,16	5,28	3,32	6,36	3,44	7,62	3,54	9,06	3,64	10,70	3,74	11,40	3,79	12,55	3,87
ZBD38KCE-TFD	30	7,23	2,73	8,78	2,85	10,60	2,96	12,70	3,05	15,10	3,13	17,80	3,19	19,00	3,21	20,90	3,22
	40	6,33	3,24	7,70	3,39	9,28	3,53	11,10	3,65	13,20	3,75	15,60	3,83	16,60	3,85	18,25	3,88
	50	5,38	3,87	6,53	4,04	7,85	4,21	9,37	4,35	11,10	4,48	13,10	4,58	14,00	4,61	15,40	4,65
ZBD45KCE-TFD	30	8,63	3,20	10,55	3,36	12,75	3,52	15,30	3,70	18,20	3,90	21,50	4,12	23,00	4,21	25,30	4,36
	40	7,55	3,84	9,21	4,02	11,15	4,19	13,35	4,37	15,90	4,55	18,80	4,75	20,10	4,83	22,10	4,95
	50	6,38	4,63	7,77	4,83	9,37	5,03	11,20	5,22	13,35	5,40	15,80	5,58	16,85	5,66	18,60	5,77

 t<sub>o</sub>: evaporating temperature [°C]  
 t<sub>k</sub>: condensing temperature [°C]

 Q<sub>o</sub>: cooling capacity [W]  
 P: power input [W]


Code	Dimensions [mm]		
	length	width	height
47-32ZBD30	241	246	482
47-32ZBD38	241	246	481
47-32ZBD54	241	246	494

## Copeland ZBD compressor's accessories

Code	Type	Description
47-32ZBD-3007	ZBD-3007	solenoid valve for ZDB compressors
47-32EC2-552	EC2-552	regulator Alco EC2-552
47-32EC2-540-K	K02-540	terminal Alco K02-540
47-32ECT-323	ECT-323	transformator Alco ECT-323, 24V, 20VA

**Compressors**  
**Copeland Scroll ZB**

R-22, R-404A, 230 V

Voltage: 220 - 240 V / 50 Hz

Code	Type	Displ. [m <sup>3</sup> /h]	Connection - Rotalock	
			suction	discharge
47-32ZB42-1F	ZB42 KCE-PFJ 551	16,20	1 1/4"	1"

Type	Diameters [mm]			Oil charge [l]	Weight [kg]
	length	width	height		
ZB42 KCE-PFJ 551	251	246	450	1,9	40


**Compressors**  
**Copeland Scroll ZB**

R-134a, R-404A, 400 V

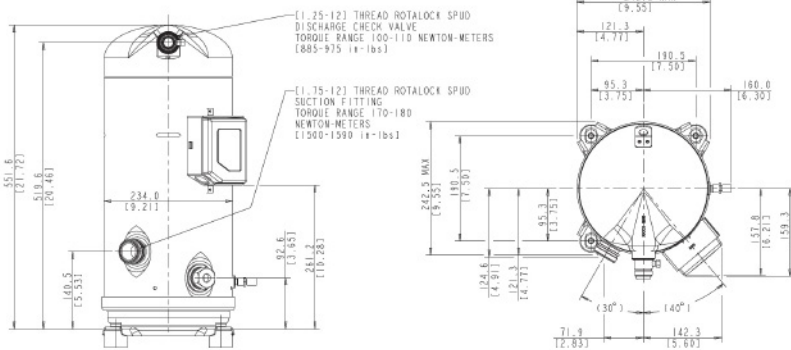
Voltage: 380 - 420 V / 50 Hz

Code	Type	Displacement [m <sup>3</sup> /h]	Connection - Rotalock	
			suction	discharge
47-32ZB15	ZB15 KCE-TFD 551	5,9	3/4"	1/2"
47-32ZB19	ZB19 KCE-TFD 551	6,8	1 1/4"	1"
47-32ZB21	ZB21 KCE-TFD 551	8,6	1 1/4"	1"
47-32ZB26	ZB26 KCE-TFD 551	10	1 1/4"	1"
47-32ZB30	ZB30 KCE-TFD 551	11,7	1 1/4"	1"
47-32ZB38	ZB38 KCE-TFD 551	14,4	1 1/4"	1"
47-32ZB45	ZB45 KCE-TFD 551	17,1	1 1/4"	1"
47-32ZB58	ZB58KCE-TFD 551	22,1	1 3/4"	1 1/4"
47-32ZB66	ZB66KCE-TFD 551	24,9	1 3/4"	1 1/4"
47-32ZB76	ZB76 KCE-TWD 551	29,1	1 3/4"	1 1/4"
47-32ZB95	ZB95 KCE-TWD 551	36,4	1 3/4"	1 1/4"
47-32ZB114	ZB114KCE-TFD 551	43,4	1 3/4"	1 1/4"

Type	Diameters [mm]			Oil charge [l]	Weight [kg]
	length	width	height		
ZB15 KCE-TFD 551	241	214	382	1,3	25
ZB19 KCE-TFD 551	242	242	369	1,5	27
ZB21 KCE-TFD 551	243	244	392	1,24	29
ZB26 KCE-TFD 551	243	244	406	1,45	28
ZB30 KCE-TFD 551	242	242	438	1,9	35
ZB38 KCE-TFD 551	242	242	438	1,9	37
ZB45 KCE-TFD 551	242	242	458	1,9	40
ZB58 KCE-TFD 551	264	284	478	2,66	57
ZB66 KCE-TFD 551	264	284	533	3,38	60
ZB76 KCE-TWD 551	264	284	546	3,38	61
ZB95 KCE-TWD 551	264	285	552	3,38	65
ZB114 KCE-TFD 551	264	285	552	3,38	66

## Techinal specification Copeland ZB

R-404A



Type	Conden. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																
		$t_o$	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0	
		$t_k$	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P
ZB15	30	2,89	1,27	3,57	1,25	4,35	1,22	5,24	1,19	6,26	1,17	7,41	1,15	7,92	1,15	8,72	1,16	
	40	2,40	1,67	3,00	1,63	3,69	1,58	4,46	1,54	5,34	1,51	6,34	1,49	6,78	1,48	7,47	1,49	
	50	1,84	2,26	2,36	2,18	2,94	2,1	3,59	2,03	4,33	1,96	5,17	1,92	5,54	1,91	6,12	1,90	
ZB19	30	3,31	1,48	4,04	1,48	4,89	1,48	5,88	1,47	7,03	1,47	8,33	1,46	8,9	1,46	9,81	1,46	
	40	2,86	1,88	3,50	1,87	4,24	1,86	5,11	1,86	6,10	1,85	7,24	1,83	7,74	1,83	8,54	1,82	
	50	2,38	2,38	2,92	2,37	3,55	2,35	4,27	2,34	5,11	2,32	6,08	2,31	6,50	2,30	7,18	2,29	
ZB21	30	4,28	1,77	5,24	1,77	6,35	1,76	7,64	1,76	9,10	1,75	10,75	1,74	11,50	1,74	12,65	1,74	
	40	3,71	2,24	4,54	2,24	5,51	2,23	6,62	2,22	7,89	2,21	9,33	2,19	9,96	2,19	10,95	2,18	
	50	3,08	2,83	3,77	2,83	4,57	2,82	5,50	2,81	6,57	2,79	7,79	2,77	8,32	2,79	9,17	2,74	
ZB26	30	4,99	2,08	6,08	2,08	7,36	2,07	8,83	2,06	10,55	2,05	12,50	2,05	13,35	2,04	14,70	2,04	
	40	4,31	2,63	5,26	2,63	6,36	2,62	7,64	2,61	9,12	2,59	10,8	2,58	11,55	2,57	12,75	2,56	
	50	3,57	3,32	4,37	3,31	5,30	3,30	6,38	3,28	7,63	3,26	9,08	3,26	9,72	3,24	10,75	3,23	
ZB30	30	5,88	2,38	7,19	2,37	8,70	2,36	10,45	2,34	12,45	2,33	14,65	2,32	15,65	2,31	17,2	2,31	
	40	5,04	3,01	6,18	3,00	7,50	2,98	9,03	2,95	10,75	2,93	12,75	2,91	13,60	2,90	15,00	2,89	
	50	4,13	3,81	5,09	3,79	6,21	3,77	7,51	3,74	9,01	3,71	10,75	3,68	11,50	3,67	12,70	3,65	
ZB38	30	7,29	3,00	8,91	3,00	10,8	2,99	12,95	2,97	15,45	2,95	18,25	2,92	19,45	2,90	21,40	2,87	
	40	6,27	3,76	7,68	3,76	9,31	3,76	11,20	3,76	13,35	3,74	15,80	3,71	16,90	3,70	18,60	3,68	
	50	5,19	4,67	6,36	4,68	7,74	4,68	9,33	4,68	11,20	4,67	13,30	4,65	14,20	4,64	15,70	4,63	
ZB42	30	8,20	3,30	10,05	3,30	12,15	3,30	14,60	3,29	17,40	3,27	20,60	3,25	22,00	3,25	24,20	3,23	
	40	7,11	4,17	8,70	4,17	10,55	4,16	12,65	4,15	15,10	4,12	17,85	4,09	19,05	4,07	21,00	4,05	
	50	5,89	5,28	7,22	5,28	8,76	5,27	10,55	5,24	12,60	5,21	15,16	5,16	15,95	5,14	17,60	5,11	
ZB45	30	8,60	3,43	10,55	3,42	12,75	3,40	15,30	3,38	18,25	3,34	21,50	3,31	23,00	3,30	25,30	3,28	
	40	7,39	4,31	9,05	4,31	10,95	4,30	13,15	4,28	15,70	4,24	18,60	4,21	19,85	4,19	21,80	4,16	
	50	6,14	5,35	7,52	5,36	9,12	5,36	10,95	5,34	13,10	5,31	15,55	5,28	16,65	5,26	18,35	5,23	
ZB58	30	11,15	4,49	13,75	4,53	16,7	4,57	20,10	4,61	23,90	4,66	28,30	4,70	30,20	4,71	33,20	4,74	
	40	9,41	5,62	11,85	5,64	14,5	5,65	17,50	5,67	20,90	5,69	24,70	5,72	26,4	5,72	29,00	5,74	
	50	7,33	7,10	9,57	7,08	12,00	7,07	14,60	7,05	17,55	7,04	20,80	7,03	22,2	7,02	24,5	7,02	

$t_o$ : evaporating temperature [°C]  
 $t_k$ : condensing temperature [°C]

$Q_o$ : cooling capacity [W]  
 P: power input [W]

Type	Conden. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]															
		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZB66	30	12,7	5,09	15,55	5,14	18,85	5,18	22,7	5,25	27,1	5,35	32	5,5	34,2	5,58	37,6	5,73
	40	11,05	6,29	13,55	6,33	16,4	6,36	19,7	6,39	23,5	6,44	27,8	6,53	29,7	6,58	32,6	6,68
	50	9,16	7,87	11,3	7,9	13,7	7,9	16,45	7,89	19,6	7,89	23,2	7,92	24,8	7,94	27,3	7,99
ZB76	30	15	5,79	18,35	5,89	22,2	5,97	26,7	6,06	31,8	6,14	37,7	6,23	40,3	6,27	44,4	6,33
	40	13	7,18	16	7,26	19,4	7,33	23,3	7,39	27,7	7,46	32,8	7,52	35	7,55	38,5	7,59
	50	10,65	8,97	13,25	9,03	16,2	9,08	19,55	9,12	23,3	9,16	27,5	9,19	29,4	9,21	32,3	9,23
ZB92	30	18,45	7,38	22,7	7,47	27,5	7,59	33	7,74	39,3	7,89	46,3	8,03	49,4	8,08	54,2	8,14
	40	15,6	9,35	19,45	9,34	23,8	9,38	28,7	9,47	34,1	9,59	40,3	9,72	42,9	9,77	47,2	9,85
	50	-	-	-	-	19,5	11,8	23,7	11,8	28,5	11,8	33,7	11,9	36	11,9	39,6	12
ZB95	30	18,45	7,38	22,7	7,47	27,5	7,59	33	7,74	39,3	7,89	46,3	8,03	49,4	8,08	54,2	8,14
	40	15,6	9,35	19,45	9,34	23,8	9,38	28,7	9,47	34,1	9,59	40,3	9,72	42,9	9,77	47,2	9,85
	50	-	-	-	-	19,5	11,8	23,7	11,8	28,5	11,8	33,7	11,9	36	11,9	39,6	12
ZB114	30	21,9	8,91	27,1	9,03	33	9,18	37,1	9,35	47,2	9,52	55,7	9,68	59,4	9,73	65,3	9,8
	40	18,25	11,25	23	11,25	28,3	11,3	34,4	11,4	41,1	11,5	48,7	11,65	52	11,7	57,3	11,8
	50	-	-	-	-	23	14,15	28,3	14,1	34,2	14,1	40,8	14,15	43,7	14,2	48,3	14,25

## Compressors Copeland Scroll ZF

R-404A, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Displacement [m <sup>3</sup> /h]	Connection - Rotalock	
			suction	discharge
47-32ZF09	ZF09 K4E-TFD 551	8	1 1/4"	1"
47-32ZF11	ZF11 K4E-TFD 551	9,9	1 1/4"	1"
47-32ZF13	ZF13 K4E-TFD 551	11,8	1 1/4"	1"
47-32ZF15	ZF15 K4E-TFD 551	14,5	1 1/4"	1"
47-32ZF18	ZF18 K4E-TFD 551	17,1	1 1/4"	1"
47-32ZF24	ZF24 K4E-TWD 551	20,9	1 1/4"	1 1/4"
47-32ZF25	ZF25 K5E-TFD 567	21,3	1 1/4"	1"
47-32ZF34	ZF34 K5E-TFD 567	29,1	1 3/4"	1 1/4"
47-32ZF41	ZF41 K5E-TFD 567	35,3	1 3/4"	1 1/4"
47-32ZF49	ZF49 K5E-TFD 567	42,3	1 3/4"	1 1/4"

Type	Diameters [mm]			Oil charge [l]	Weight [kg]	Refrigerant
	length	width	height			
ZF09 K4E-TFD 551	243	244	392	1,5	27	R404A
ZF11 K4E-TFD 551	243	244	406	1,5	28	R404A
ZF13 K4E-TFD 551	241	244	490	1,4	38	R404A
ZF15 K4E-TFD 551	241	244	490	1,7	39	R404A
ZF18 K4E-TFD 551	241	244	490	1,7	41	R404A
ZF24 K4E-TWD 551	368	316	542	4,14	100	R404A
ZF25 K5E-TFD 567	308	246	438	1,9	41	R404A
ZF34 K5E-TFD 567	280	279	456	3,2	63	R404A
ZF41 K5E-TFD 567	280	279	546	3,2	63	R404A
ZF49 K5E-TFD 567	280	279	564	3,2	63	R404A

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]													
		$t_o$	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0
	$t_k$	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P
ZF09	30	4,12	1,65	4,99	1,74	6	1,85	7,16	1,96	8,49	2,1	10	2,24	10,65	2,3
	40	3,62	1,93	4,37	2,01	5,24	2,11	6,25	2,22	7,41	2,34	8,73	2,48	9,31	2,53
	50	3,07	2,28	3,69	2,35	4,43	2,44	5,28	2,54	6,26	2,66	7,4	2,79	7,89	2,85
ZF11	30	5,12	2,04	6,19	2,15	7,44	2,28	8,88	2,42	10,55	2,59	12,45	2,76	13,25	2,84
	40	4,51	2,35	5,43	2,46	6,51	2,58	7,77	2,71	9,23	2,87	10,9	3,03	11,65	3,1
	50	3,81	2,76	4,59	2,86	5,49	2,98	6,56	3,11	7,8	3,25	9,24	3,41	9,88	3,48
ZF13	30	6,03	2,19	7,3	2,3	8,74	2,44	10,35	2,59	12,2	2,76	14,25	2,95	15,1	3,03
	40	5,27	2,59	6,38	2,7	7,66	2,83	9,11	2,97	10,75	3,13	12,6	3,3	13,4	3,37
	50	4,42	3,12	5,35	3,23	6,44	3,35	7,7	3,48	9,13	3,62	10,75	3,78	11,5	3,85
ZF15	30	7,38	2,92	8,96	3,1	10,8	3,31	12,85	3,56	15,25	3,86	17,95	4,22	19,1	4,38
	40	6,43	3,48	7,79	3,65	9,36	3,84	11,15	4,07	13,25	4,33	15,55	4,65	16,6	4,79
	50	5,42	4,2	6,55	4,38	7,85	4,57	9,36	4,78	11,1	5,03	13,05	5,32	13,95	5,45
ZF18	30	8,9	3,3	10,8	3,46	13	3,65	15,5	3,84	18,35	4,06	21,6	4,3	23	4,39
	40	7,78	3,84	9,41	4	11,3	4,18	13,45	4,37	15,95	4,58	18,75	4,81	19,95	4,91
	50	6,57	4,52	7,92	4,68	9,49	4,86	11,3	5,04	13,4	5,25	15,75	5,47	16,8	5,56
ZF24	30	10,85	4,38	13,1	4,59	15,75	4,82	18,8	5,09	22,3	5,39	26,3	5,75	28,1	5,91
	40	9,58	5,15	11,55	5,36	13,8	5,59	16,4	5,84	19,45	6,11	23	6,43	24,5	6,56
	50	8,12	6,04	9,74	6,27	11,65	6,51	13,85	6,76	16,4	7,03	19,35	7,31	20,7	7,44
ZF25	30	11	4,06	13,3	4,32	16,05	4,58	19,2	4,83	22,8	5,09	27	5,35	28,8	5,46
	40	9,61	4,64	11,65	4,92	14,05	5,21	16,8	5,49	20	5,78	23,6	6,06	25,2	6,18
	50	8,15	5,37	9,87	5,69	11,9	6,01	14,25	6,32	17	6,64	20,1	6,96	21,5	7,09
ZF34	30	14,55	5,23	17,65	5,55	21,2	5,87	25,4	6,21	30,1	6,55	35,4	6,89	37,7	7,03
	40	12,8	6,1	15,5	6,47	18,6	6,84	22,2	7,23	26,4	7,61	31,1	8	33,2	8,16
	50	10,85	7,16	13,1	7,59	15,75	8,03	18,85	8,47	22,4	8,93	26,5	9,38	28,3	9,56
ZF41	30	18,1	6,69	22	7,1	26,6	7,52	31,9	7,94	38	8,35	45	8,77	48	8,93
	40	15,8	7,74	19,2	8,19	23,1	8,65	27,7	9,1	33	9,56	39,1	10	41,8	10,2
	50	13,35	8,98	16,15	9,49	19,45	10	23,3	10,5	27,8	11	32,9	11,55	35,2	11,75
ZF49	30	21,7	7,82	26,4	8,35	31,8	8,92	37,9	9,53	-	-	-	-	-	-
	40	19,05	9,03	23,1	9,6	27,8	10,2	33,2	10,85	-	-	-	-	-	-
	50	16,15	10,5	19,55	11,1	23,6	11,75	28,2	12,45	-	-	-	-	-	-

 $t_o$ : evaporating temperature [°C]

 $t_k$ : condensing temperature [°C]

 $Q_o$ : cooling capacity [W]

P: power input [W]

## Valves for compressors Copeland Scroll ZF

Code	Description
47-32ZF-DTC-ZF06-18	DTC valve for compressors Copeland ZF 06-18
47-32ZF-DTC-ZF09-48	DTC valve for compressors Copeland ZF 09-48

**Tehchnical specification**  
**Copeland Scroll ZR, solder**

R-407C, 230 V

Voltage: 220 - 240 V / 50 Hz

Code	Type	Displ. [m <sup>3</sup> /h]	Connection - solder		Dimensions [mm]			Oil [l]	Weight [kg]
			suction	discharge	length	width	height		
47-32ZR18-1F	ZR18K5E-PFJ 622	4,4	3/4"	1/2"	246	246	387	0,74	22,4
47-32ZR22-1F	ZR22K3E-PFJ 522	5,3	3/4"	1/2"	242	242	363	1,00	22
47-32ZR28-1F	ZR28K3E-PFJ 522	6,8	3/4"	1/2"	242	242	363	1,00	25
47-32ZR34-1F	ZR34K3E-PFJ 522	8,0	3/4"	1/2"	242	242	386	1,10	26
47-32ZR40-1F	ZR40K3E-PFJ 522	9,4	3/4"	1/2"	242	242	400	1,10	27
47-32ZR48-1F	ZR48K3E-PFJ 522	11,4	7/8"	1/2"	242	242	417	1,36	30,8
47-32ZR61-1F	ZR61KCE-PFJ 522	14,4	7/8"	1/2"	241	247	438	1,66	38,6

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																				
		t <sub>o</sub>	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5		15,0	
		t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZR18	30	1,51	0,82	2,01	0,82	2,58	0,81	3,24	0,80	4,00	0,79	4,89	0,78	5,27	0,77	5,90	0,76	6,46	0,75	7,06	0,74	
	40	1,21	1,04	1,68	1,04	2,23	1,03	2,84	1,03	3,55	1,02	4,37	1,00	4,73	1,00	5,32	0,99	5,84	0,98	6,40	0,97	
	50	-	-	-	-	1,79	1,34	2,36	1,33	3,02	1,32	3,78	1,30	4,11	1,29	4,65	1,28	5,14	1,27	5,65	1,25	
ZR22	30	1,92	1,01	2,46	1,00	3,11	1,00	3,88	0,99	4,78	0,98	5,82	0,96	6,28	0,95	7,02	0,93	7,69	0,91	8,39	0,89	
	40	1,64	1,28	2,15	1,27	2,75	1,26	3,45	1,25	4,28	1,24	5,24	1,22	5,67	1,21	6,35	1,20	6,97	1,18	7,62	1,16	
	50	-	-	-	-	2,33	1,62	2,96	1,60	3,70	1,58	4,56	1,56	4,95	1,55	5,57	1,53	6,12	1,52	6,72	1,50	
ZR28	30	2,48	1,29	3,20	1,28	4,04	1,27	5,03	1,26	6,18	1,25	7,51	1,22	8,10	1,21	9,06	1,18	9,91	1,15	10,85	1,12	
	40	2,13	1,63	2,79	1,62	3,57	1,61	4,47	1,61	5,52	1,59	6,75	1,57	7,30	1,56	8,17	1,53	8,96	1,50	9,81	1,47	
	50	-	-	-	-	3,04	2,06	3,84	2,05	4,79	2,03	5,89	2,00	6,38	1,98	7,18	1,95	7,89	1,92	8,66	1,89	
ZR34	30	2,97	1,53	3,83	1,51	4,83	1,50	6,01	1,49	7,38	1,47	8,97	1,44	9,68	1,42	10,80	1,39	11,85	1,36	12,95	1,32	
	40	2,55	1,92	3,34	1,91	4,26	1,91	5,34	1,90	6,60	1,88	8,07	1,85	8,72	1,84	9,76	1,81	10,70	1,78	11,70	1,74	
	50	-	-	-	-	3,63	2,44	4,60	2,42	5,72	2,40	7,04	2,37	7,63	2,35	8,57	2,31	9,43	2,28	10,35	2,24	
ZR40	30	3,50	1,80	4,50	1,78	5,68	1,77	7,07	1,75	8,68	1,73	10,55	1,69	11,40	1,67	12,70	1,64	13,90	1,60	15,20	1,55	
	40	3,00	2,26	3,93	2,25	5,01	2,25	6,28	2,24	7,76	2,22	9,49	2,18	10,25	2,17	11,50	2,13	12,60	2,09	13,80	2,05	
	50	-	-	-	-	4,27	2,87	5,40	2,85	6,73	2,82	8,28	2,78	8,97	2,76	10,10	2,72	11,10	2,68	12,15	2,63	
ZR48	30	4,46	2,18	5,62	2,17	7,01	2,15	8,65	2,14	10,55	2,12	12,75	2,10	13,70	2,09	15,25	2,07	16,65	2,06	18,10	2,04	
	40	3,87	2,74	4,95	2,72	6,24	2,71	7,76	2,69	9,53	2,67	11,55	2,64	12,45	2,62	13,90	2,60	15,15	2,58	16,50	2,55	
	50	-	-	-	-	5,33	3,42	6,72	3,40	8,33	3,38	10,20	3,34	11,00	3,33	12,30	3,30	13,50	3,27	14,70	3,24	
ZR61	30	5,65	2,31	7,32	2,39	8,97	2,42	10,85	2,42	13,10	2,43	16,00	2,47	17,40	2,51	19,80	2,59	22,10	2,69	-	-	
	40	5,05	2,91	6,66	3,04	8,17	3,11	9,81	3,14	11,80	3,17	14,35	3,23	15,60	3,27	17,70	3,36	19,75	3,45	-	-	
	50	-	-	-	-	7,18	3,95	8,68	4,00	10,45	4,03	12,70	4,09	13,80	4,12	15,70	4,20	17,50	4,28	-	-	

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]



## Compressors Copeland Scroll ZR

R-407C, 400 V

Compressors are with ester oil.

**Voltage:** 380 - 420 V / 50 Hz

Code	Type	Displ. [m³/h]	Connection - solder		Diameters [mm]			Oil charge [l]	Weight [kg]
			suction	discharge	length	width	height		
47-32ZR22	ZR22K3E-TFD 522	5,3	3/4"	1/2"	242	242	363	1,00	22
47-32ZR28	ZR28K3E-TFD 522	6,8	3/4"	1/2"	242	242	363	1,00	25
47-32ZR34	ZR34K3E-TFD 522	8,0	3/4"	1/2"	242	242	386	1,10	26
47-32ZR40	ZR40K3E-TFD 522	9,4	3/4"	1/2"	242	242	400	1,10	27
47-32ZR42	ZR42K3E-TFD 522	9,4	3/4"	1/2"	242	242	400	1,40	31
47-32ZR48	ZR48K3E-TFD 522	11,4	7/8"	1/2"	242	242	417	1,36	30,8
47-32ZR61	ZR61KCE-TFD 522	14,4	7/8"	1/2"	241	247	438	1,66	38,6
47-32ZR-61-NEW	ZR61KSE-TFMN 502	14,4	7/8"	1/2"	242	242	430	1,40	33,0
47-32ZR72	ZR72KCE-TFD 522	17,1	7/8"	1/2"	242	242	438	1,77	38,6
47-32ZR81	ZR81KCE-TFD 522	18,8	7/8"	3/4"	242	242	443	1,77	39
47-32ZR94	ZR94KCE-TFD 455	22,1	1 1/8"	7/8"	264	285	476	2,65	57,2
47-32ZR108	ZR108KCE-TFD 455	24,9	1 3/8"	7/8"	264	285	533	3,38	59,9
47-32ZR125	ZR125KCE-TFD 455	29,1	1 3/8"	7/8"	281	285	533	3,38	61,2
47-32ZR144	ZR144KCE-TFD 455	33,2	1 3/8"	7/8"	264	285	533	3,38	61,2
47-32ZR160	ZR160KCE-TFD 455	36,4	1 3/8"	7/8"	264	285	552	3,38	64,9
47-32ZR190	ZR190KCE-TFD 455	43,3	1 3/8"	7/8"	264	285	552	3,38	66,2
47-32ZR250	ZR250KCE-TWD 523	56,6	1 5/8"ID	1 3/8"ID	432	376	717	4,70	140
47-32ZR310	ZR310KCE-TWD 523	71,4	1 5/8"ID	1 3/8"ID	448	392	715	6,80	160
47-32ZR380	ZR380KCE-TWD 523	87,5	1 5/8"	1 3/8"	447	427	715	6,30	176,9

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5	
		t <sub>o</sub>	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZR22	30	1,88	0,95	2,39	0,94	3,02	0,94	3,77	0,94	4,65	0,93	5,66	0,92	6,11	0,92	6,81	0,91	7,43	0,90
	40	1,60	1,21	2,08	1,21	2,67	1,21	3,38	1,21	4,21	1,20	5,16	1,19	5,58	1,18	6,25	1,16	6,83	1,15
	50	-	-	-	-	2,28	1,55	2,91	1,55	3,67	1,54	4,54	1,53	4,92	1,52	5,53	1,50	6,07	1,48
ZR28	30	2,34	1,22	3,03	1,21	3,87	1,21	4,88	1,20	6,04	1,19	7,35	1,18	7,92	1,17	8,83	1,16	9,62	1,15
	40	2,08	1,55	2,70	1,55	3,47	1,56	4,39	1,55	5,47	1,54	6,71	1,53	7,24	1,52	8,09	1,50	8,85	1,48
	50	-	-	-	-	2,96	2,00	3,78	2,00	4,75	1,99	5,88	1,96	6,37	1,95	7,15	1,92	7,85	1,90
ZR34	30	2,91	1,42	3,73	1,42	4,70	1,41	5,84	1,41	7,18	1,40	8,73	1,38	9,42	1,37	10,50	1,36	11,50	1,34
	40	2,47	1,83	3,23	1,83	4,14	1,83	5,20	1,83	6,45	1,82	7,90	1,79	8,54	1,78	9,57	1,76	10,50	1,73
	50	-	-	-	-	3,51	2,36	4,48	2,36	5,63	2,35	6,95	2,32	7,54	2,30	8,49	2,27	9,34	2,24
ZR40	30	3,31	1,68	4,27	1,67	5,44	1,67	6,82	1,66	8,42	1,65	10,25	1,63	11,05	1,62	12,30	1,60	13,45	1,58
	40	2,89	2,15	3,77	2,15	4,85	2,15	6,14	2,15	7,64	2,14	9,36	2,11	10,10	2,10	11,30	2,07	12,35	2,04
	50	-	-	-	-	4,14	2,76	5,29	2,76	6,65	2,75	8,22	2,71	8,90	2,69	10,00	2,66	11,00	2,62
ZR48	30	4,35	2,14	5,52	2,13	6,91	2,11	8,55	2,09	10,45	2,05	12,70	1,99	13,65	1,97	15,25	1,92	16,65	1,87
	40	3,75	2,66	4,83	2,64	6,12	2,63	7,63	2,61	9,40	2,59	11,45	2,56	12,35	2,55	13,80	2,52	15,15	2,49
	50	-	-	-	-	5,28	3,30	6,65	3,29	8,25	3,27	10,10	3,25	10,95	3,25	12,30	3,23	13,50	3,21

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZR61	30	4,87	2,44	6,38	2,46	8,18	2,48	10,30	2,49	12,80	2,52	15,65	2,58	16,90	2,61	18,95	2,68	20,80	2,76
	40	4,17	3,03	5,58	3,10	7,25	3,14	9,21	3,16	11,50	3,18	14,15	3,21	15,35	3,22	17,25	3,26	18,95	3,30
	50	-	-	-	-	6,20	3,92	7,96	3,97	10,05	4,00	12,45	4,02	13,50	4,03	15,20	4,05	16,75	4,07
ZR72	30	6,39	2,82	8,22	2,86	10,35	2,89	12,80	2,90	15,65	2,92	18,90	2,95	20,30	2,97	22,60	3,01	24,70	3,05
	40	5,30	3,55	7,02	3,62	8,98	3,66	11,25	3,67	13,85	3,68	16,85	3,69	18,15	3,70	20,30	3,71	22,20	3,73
	50	-	-	-	-	7,59	4,59	9,66	4,63	12,05	4,65	14,75	4,66	15,95	4,66	17,90	4,66	19,60	4,66
ZR81	30	6,84	3,12	8,97	3,16	11,35	3,19	14,10	3,22	17,25	3,26	20,90	3,31	22,60	3,34	25,20	3,39	27,60	3,44
	40	5,75	4,01	7,80	4,05	10,05	4,07	12,65	4,09	15,60	4,12	19,05	4,17	20,60	4,19	23,00	4,24	25,30	4,28
	50	-	-	-	-	8,55	5,25	10,90	5,25	13,60	5,25	16,70	5,27	18,10	5,29	20,40	5,32	22,40	5,36
ZR94	30	9,07	3,87	11,45	3,92	14,20	3,95	17,40	3,97	21,10	3,98	25,30	3,98	27,20	3,97	30,30	3,97	33,10	3,97
	40	7,30	4,89	9,84	4,94	12,60	4,97	15,75	4,98	19,25	4,98	23,30	4,96	25,00	4,96	27,90	4,94	30,40	4,93
	50	-	-	-	-	10,25	6,32	13,35	6,32	16,80	6,30	20,60	6,26	22,30	6,24	24,90	6,21	27,20	6,19
ZR108	30	10,15	4,26	12,80	4,30	15,95	4,34	19,60	4,38	23,90	4,45	29,00	4,56	31,20	4,62	34,80	4,74	38,00	4,85
	40	8,82	5,32	11,25	5,39	14,15	5,43	17,55	5,46	21,50	5,48	26,20	5,52	28,20	5,55	31,50	5,60	34,40	5,65
	50	-	-	-	-	12,20	6,79	15,25	6,84	18,85	6,85	23,00	6,86	24,90	6,87	27,90	6,88	30,60	6,90
ZR125	30	11,85	4,97	14,95	5,02	18,60	5,05	22,80	5,10	27,80	5,16	33,50	5,26	36,00	5,32	40,10	5,41	43,70	5,51
	40	10,10	6,20	13,10	6,28	16,55	6,32	20,50	6,35	25,20	6,38	30,50	6,43	32,90	6,45	36,70	6,50	40,10	6,55
	50	-	-	-	-	14,00	7,96	17,75	8,00	22,00	8,03	27,00	8,05	29,10	8,06	32,60	8,08	35,80	8,11
ZR144	30	12,95	5,55	16,75	5,63	21,00	5,69	25,90	5,75	31,60	5,82	38,10	5,91	41,00	5,95	45,60	6,03	49,70	6,10
	40	10,60	6,95	14,45	7,05	18,70	7,13	23,40	7,18	28,90	7,22	35,00	7,26	37,70	7,29	42,00	7,32	45,90	7,36
	50	-	-	-	-	-	-	20,10	9,06	25,20	9,10	30,90	9,12	33,40	9,13	37,40	9,14	41,00	9,15
ZR160	30	13,60	6,30	17,80	6,37	22,80	6,45	28,70	6,53	35,50	6,62	43,50	6,73	47,00	6,78	52,70	6,87	57,80	6,95
	40	10,95	7,95	14,85	8,03	19,50	8,09	24,90	8,15	31,30	8,21	38,70	8,29	42,00	8,32	47,30	8,38	52,00	8,43
	50	-	-	-	-	15,90	10,25	20,80	10,30	26,70	10,30	33,40	10,30	36,50	10,35	41,30	10,35	45,70	10,35
ZR190	30	16,60	7,67	21,30	7,74	26,80	7,80	33,10	7,89	40,40	8,03	48,90	8,26	52,60	8,38	58,60	8,60	63,90	8,82
	40	13,85	9,57	18,45	9,67	23,80	9,73	29,80	9,77	36,70	9,83	44,70	9,92	48,20	9,98	53,80	10,10	58,80	10,20
	50	-	-	-	-	19,80	12,20	25,50	12,25	31,90	12,30	39,30	12,30	42,60	12,35	47,70	12,40	52,40	12,45
ZR250	30	23,30	9,97	29,30	10,05	36,50	10,15	44,80	10,25	54,50	10,30	65,80	10,25	70,70	10,20	78,60	10,05	85,70	9,90
	40	20,10	12,55	25,70	12,50	32,20	12,60	39,90	12,70	48,90	12,85	59,30	12,95	63,90	13,00	71,30	13,00	77,90	13,00
	50	-	-	-	-	27,50	15,90	34,50	15,95	42,70	16,10	52,20	16,25	56,40	16,35	63,20	16,45	69,30	16,50
ZR310	30	28,50	12,30	36,50	12,45	45,80	12,65	56,80	12,90	69,70	13,20	84,60	13,55	91,20	13,65	101,50	13,90	111,00	14,10
	40	24,00	15,55	31,20	15,60	39,70	15,70	49,70	15,85	61,40	16,05	75,00	16,30	81,00	16,40	90,70	16,60	99,30	16,80
	50	-	-	-	-	33,50	19,95	42,40	19,95	52,80	20,00	65,00	20,20	70,40	20,20	79,10	20,40	87,00	20,50
ZR380	30	33,50	14,80	43,40	15,00	54,60	15,15	67,80	15,40	83,40	15,75	102,00	16,20	110,00	16,45	123,50	16,90	136,00	17,30
	40	27,40	18,55	37,30	18,85	48,10	19,05	60,40	19,20	74,60	19,40	91,30	19,70	98,70	19,85	111,00	20,10	122,00	20,30
	50	-	-	-	-	40,10	23,90	51,80	24,10	64,90	24,30	80,10	24,40	86,80	24,50	97,60	24,60	107,50	24,80

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Copeland ZR - Tandem Version

R-407C, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Displacement [m³/h]	Connection - solder	
			suction	discharge
47-32ZR61-TAND	ZR61KCE-TFD 422	14,40	7/8"	1/2"
47-32ZR72-TAND	ZR72KCE-TFD 422	17,10	7/8"	1/2"
47-32ZR81-TAND	ZR81KCE-TFD 422	18,80	7/8"	3/4"

Type	Diameters [mm]			Oil charge [l]	Weight [kg]
	length	width	height		
ZR61KCE-TFD 422	241	247	438	1,66	38,6
ZR72KCE-TFD 422	242	242	438	1,77	38,6
ZR81KCE-TFD 422	242	242	443	1,77	39,0

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																		
		t <sub>o</sub>	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5	
		t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZR61	30	4,87	2,44	6,38	2,46	8,18	2,48	10,30	2,49	12,80	2,52	15,65	2,58	16,90	2,61	18,95	2,68	20,80	2,76	
	40	4,17	3,03	5,58	3,10	7,25	3,14	9,21	3,16	11,50	3,18	14,15	3,21	15,35	3,22	17,25	3,26	18,95	3,30	
	50	-	-	-	-	6,20	3,92	7,96	3,97	10,05	4,00	12,45	4,02	13,50	4,03	15,20	4,05	16,75	4,07	
ZR72	30	6,39	2,82	8,22	2,86	10,35	2,89	12,80	2,90	15,65	2,92	18,90	2,95	20,30	2,97	22,60	3,01	24,70	3,05	
	40	5,30	3,55	7,02	3,62	8,98	3,66	11,25	3,67	13,85	3,68	16,85	3,69	18,15	3,70	20,30	3,71	22,20	3,73	
	50	-	-	-	-	7,59	4,59	9,66	4,63	12,05	4,65	14,75	4,66	15,95	4,66	17,90	4,66	19,60	4,66	
ZR81	30	6,84	3,12	8,97	3,16	11,35	3,19	14,10	3,22	17,25	3,26	20,90	3,31	22,60	3,34	25,20	3,39	27,60	3,44	
	40	5,75	4,01	7,80	4,05	10,05	4,07	12,65	4,09	15,60	4,12	19,05	4,17	20,60	4,19	23,00	4,24	25,30	4,28	
	50	-	-	-	-	8,55	5,25	10,90	5,25	13,60	5,25	16,70	5,27	18,10	5,29	20,40	5,32	22,40	5,36	

 t<sub>o</sub>: evaporating temperature [°C]  
 t<sub>k</sub>: condensing temperature [°C]

 Q<sub>o</sub>: cooling capacity [W]  
 P: power input [W]

## Compressors Copeland ZRD

R-407C

Code	Type	Displ. [m³/h]	Connection solder		Diameters [mm]			Oil charge [l]	Weight [kg]
			suction	discharge	length	width	height		
47-32ZRD61	ZRD61-KCE-TDF 422	14,4	7/8"	1/2"	241	246	481	1,89	38,1
47-32ZRD72	ZRD72-KCE-TDF 423	17,1	7/8"	1/2"	241	246	481	1,89	39,9
47-32ZRD81	ZRD81-KCE-TFD 422	18,7	7/8"	3/4"	241	246	481	1,89	41,0
47-32ZRD94	ZRD94-KCE-TDF 522	22,1	1 1/8"	7/8"	293	285	476	2,51	58
47-32ZR125	ZRD125-KCE-TDF 522	28,8	1 3/8"	7/8"	293	285	533	3,25	61,7

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZRD61	30	5,23	2,35	6,63	2,46	8,31	2,57	10,35	2,65	12,90	2,67	15,95	2,61	17,35	2,56	19,60	2,46	21,70	2,34
	40	4,71	2,84	6,11	2,96	7,67	3,10	9,49	3,23	11,65	3,35	14,25	3,41	15,40	3,42	17,35	3,41	19,10	3,38
	50	-	-	-	-	6,56	3,72	8,30	3,88	10,25	4,04	12,55	4,19	13,55	4,24	15,20	4,31	16,70	4,34
ZRD72	30	6,16	2,84	7,84	2,94	9,81	2,99	12,20	3,03	15,15	3,09	18,85	3,21	20,50	3,27	23,30	3,41	25,90	3,55
	40	5,57	3,51	7,21	3,63	9,03	3,70	11,15	3,76	13,75	3,83	16,90	3,96	18,35	4,02	20,70	4,16	23,00	4,30
	50	-	-	-	-	7,89	4,55	9,87	4,62	12,20	4,70	14,95	4,83	16,20	4,90	18,30	5,03	20,20	5,16
ZRD81	30	7,10	3,47	9,10	3,50	11,5	3,54	14,25	3,59	17,50	3,65	21,25	3,72	22,90	3,75	25,60	3,81	28,00	3,85
	40	6,00	4,30	8,00	4,32	10,20	4,35	12,80	4,40	15,80	4,46	19,20	4,55	20,70	4,59	23,15	4,65	25,35	4,71
	50	-	-	-	-	8,75	5,43	11,15	5,44	13,90	5,48	16,95	5,55	18,40	5,58	20,55	5,64	22,50	5,70
ZRD94	30	9,02	3,97	11,55	3,99	14,50	4,02	17,90	4,05	21,90	4,10	26,30	4,19	28,30	4,23	31,40	4,32	34,10	4,41
	40	7,63	5,00	9,96	5,04	12,75	5,06	16,00	5,07	19,75	5,08	24,10	5,11	25,90	5,13	28,90	5,16	31,60	5,21
	50	-	-	-	-	10,70	6,32	13,60	6,35	17,05	6,36	21,00	6,37	22,70	6,38	25,50	6,40	28,00	6,41
ZRD125	30	11,75	4,80	15,40	4,87	19,65	4,92	24,40	4,98	29,70	5,05	35,20	5,17	37,50	5,24	41,10	5,35	44,00	5,47
	40	10,30	6,41	13,20	6,51	16,90	6,58	21,30	6,63	26,30	6,69	31,70	6,78	34,00	6,82	37,60	6,99	40,60	7,09
	50	-	-	-	-	14,30	8,20	18,05	8,29	22,50	8,36	27,60	8,44	29,90	8,48	33,30	8,55	36,30	8,61

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Copeland Scroll tandem

ZRT, ZR, R-407C, 400 V

Voltage: 380 - 420 V / 50Hz

Code	Type	Displ. [m <sup>3</sup> /h]	Connection - solder		Diameters [mm]			Oil charge [l]	Weight [kg]
			suction	discharge	length	width	height		
47-32ZRT96	ZRT96 K3E-TFD522	22,8	1 1/8"	3/4"	618	289	440	2,72	57,0
47-32ZRT122	ZRT122 KCE-TFD522	28,7	1 1/8"	3/4"	626	297	460	3,37	60,0
47-32ZRT144	ZRT144 KCE-TFD522	34,0	1 1/8"	3/4"	626	297	460	3,20	93,0
47-32ZRT162	ZRT162 KCE-TFD522	38,5	1 5/8"	1 1/8"	626	309	466	3,40	93,0
47-32ZRT250	ZRT250 KCE-TFD275	57,6	1 5/8"	1 1/8"	635	312	557	6,50	131,1

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5	
		t <sub>o</sub>	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZRT96	30	8,59	3,99	11,10	4,00	14,00	3,96	17,35	3,91	21,20	3,89	25,70	3,94	27,70	3,98	30,90	4,07	33,70	4,18
	40	7,18	5,14	9,52	5,19	12,25	5,17	15,35	5,11	19,00	5,05	23,20	5,02	25,10	5,02	28,00	5,05	30,70	5,10
	50					10,20	6,79	13,05	6,74	16,35	6,66	20,20	6,58	21,90	6,55	24,60	6,53	27,10	6,53
ZRT122	30	9,78	4,85	12,80	4,91	16,40	4,96	20,60	5,02	25,50	5,11	31,00	5,22	33,40	5,28	37,30	5,38	40,70	5,47
	40	8,49	6,07	11,15	6,19	14,45	6,27	18,35	6,33	22,90	6,38	28,10	6,43	30,40	6,46	34,10	6,50	37,40	6,53
	50					12,45	7,79	15,85	7,92	19,90	8,00	24,70	8,05	26,80	8,07	30,20	8,09	33,20	8,10
ZRT144	30	12,75	5,65	16,20	5,72	20,30	5,77	25,20	5,80	30,90	5,84	37,60	5,91	40,60	5,95	45,40	6,02	49,70	6,10
	40	10,60	7,10	14,10	7,23	18,05	7,31	22,60	7,35	27,80	7,37	33,80	7,39	36,40	7,40	40,60	7,42	44,40	7,46
	50					15,10	9,17	19,40	9,26	24,20	9,30	29,50	9,31	31,90	9,31	35,60	9,32	39,00	9,32
ZRT162	30	13,70	6,24	17,95	6,33	22,70	6,39	28,20	6,44	34,50	6,52	41,90	6,62	45,20	6,67	50,50	6,77	55,30	6,88
	40	11,50	8,03	15,60	8,10	20,10	8,15	25,30	8,19	31,20	8,25	38,10	8,33	41,10	8,38	46,10	8,47	50,50	8,57
	50					17,10	10,50	21,80	10,50	27,20	10,50	33,40	10,55	36,20	10,60	40,70	10,65	44,80	10,70
ZRT250	30	23,70	9,94	29,90	10,05	37,20	10,10	45,70	10,20	55,60	10,35	67,00	10,55	72,10	10,65	80,20	10,85	87,50	11,00
	40	20,20	12,40	26,20	12,55	33,10	12,65	41,10	12,70	50,40	12,75	61,10	12,85	65,80	12,90	73,40	13,00	80,20	13,10
	50					28,00	15,90	35,50	16,00	44,00	16,05	53,90	16,10	58,30	16,15	65,30	16,15	71,60	16,20

## Technical parameters Copeland ZRT, ZR

**R134 A**

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]								
		-20,0	-15,0	-10,0	-5,0	0	5,0	7,0	10,0	12,5
ZRT96	30	4,4	6,2	8,3	10,8	13,7	17,1	18,6	21,0	
	40	3,7	5,4	7,3	9,6	12,2	15,3	16,7	18,9	20,9
	50		4,5	6,3	8,3	11,0	13,50	14,80	16,80	18,60
ZRT122	30	6,9	9,0	11,5	14,4	17,8	21,8	23,6	26,4	
	40	6,0	8,0	10,3	13,0	16,1	19,7	21,3	23,9	26,3
	50		6,9	9,0	11,5	14,3	17,6	19,0	21,4	23,6
ZRT144	30	8,6	11,1	14,1	17,6	21,7	26,5	28,6	32,0	
	40	7,5	9,6	12,4	15,6	19,4	23,8	25,8	28,9	31,7
	50		8,3	10,6	13,5	16,9	20,9	22,7	25,6	28,2
ZRT162	30	9,8	12,5	15,7	19,5	24,0	29,2	31,6	35,3	
	40	8,6	11,1	14,0	17,5	21,6	28,5	32,0	35,0	
	50		9,6	12,3	15,5	19,2	23,5	25,4	28,5	31,3
ZR61	30	3,45	4,55	5,8	7,25	9,00	11,00	11,90	13,35	
	40	3,05	4,05	5,20	6,55	8,10	9,95	10,75	12,10	13,30
	50		3,50	4,55	5,75	7,20	8,85	9,60	10,80	11,90
ZR72	30	4,30	5,55	7,05	8,80	10,85	13,25	14,30	16,00	
	40	3,75	4,80	6,15	7,80	9,70	11,90	12,90	14,45	15,80
	50		4,15	5,30	6,75	8,45	10,45	11,35	12,80	14,10
ZR81	30	4,90	6,2	7,85	9,75	12,00	14,60	15,80	17,60	
	40	4,30	5,55	7,00	8,75	10,80	13,20	14,25	16,00	17,50
	50		4,80	6,15	7,70	9,55	11,75	12,70	14,25	15,60

**Compressors**  
**Copeland ZH - solder**

R-407C, 400 V

Voltage: 380 420 V / 50 Hz

Code	Type	Displ. [m <sup>3</sup> /h]	Connection - solder		Diameters [mm]			Oil [l]	Weight [kg]
			suction	discharge	length	width	height		
47-32ZH15-K4E	ZH15-K4E TFD524	5,9	3/4"	1/2"	243	242	364	1,30	23
47-32ZH19-K4E	ZH19-K4E TFD524	7,3	3/4"	1/2"	243	242	386	1,50	25
47-32ZH21-K4E	ZH21-K4E TFD524	8,0	3/4"	1/2"	243	242	406	1,50	27
47-32ZH26-K4E	ZH26-K4E TFD524	10,0	3/4"	1/2"	243	242	419	3,10	28
47-32ZH30-K4E	ZH30-K4E TFD524	11,7	7/8"	1/2"	247	241	438	1,90	38
47-32ZH38-K4E	ZH38-K4E TFD524	14,4	7/8"	1/2"	247	241	438	1,90	38
47-32ZH45-K4E	ZH45-K4E TFD524	17,1	7/8"	1/2"	250	246	450	1,90	36
47-32ZH56-K4E	ZH56-K4E TWD524	20,9	1 3/8"	7/8"	357	321	538	4,00	93
47-32ZH75-K4E	ZH75-K4E TWD524	28,8	1 3/8"	7/8"	357	321	538	4,00	93
47-32ZH92-K4E	ZH92-K4E TWD524	35,6	1 3/8"	7/8"	357	321	545	4,10	95
47-32ZH11-M4E	ZH11-M4E TWD524	42,8	1 5/8"	7/8"	357	321	592	4,10	112
47-32ZH09-KVE	ZH09-KVE TFD526	8,0	3/4"	1/2"	243	243	406	1,50	30
47-32ZH13-KVE	ZH13-KVE TFD526	11,7	7/8"	1/2"	244	241	438	1,90	38
47-32ZH18-KVE	ZH18-KVE TFD526	17,1	7/8"	1/2"	244	241	438	1,90	41
47-32ZH18-KVE-T	ZH18-KVE TFD426, tandem	17,2	1 1/4"	1"	244	241	438	1,90	41
47-32ZH24-KVE	ZH24-KVE TFD526	20,9	1 3/8"	7/8"	368	321	525	4,00	93
47-32ZH33-KVE	ZH33-KVE TFD526	29,0	1 3/8"	7/8"	368	321	525	4,00	93
47-32ZH40-KVE	ZH40-KVE TFD526	35,5	1 3/8"	7/8"	368	321	532	4,10	103
47-32ZH48-KVE	ZH48-KVE TFD526	42,8	1 5/8"	7/8"	368	323	579	4,10	112

**Compressors**  
**Copeland ZH - solder**

R-407C, 220 - 400 V

Code	Type	Displ. [m <sup>3</sup> /h]	Connection - solder		Diameters [mm]			Oil charge [l]	Weight [kg]
			suction	discharge	length	width	height		
47-32ZH12-K4E	ZH12K4E-PFZ	4,7	3/4"	1/2"	272	193	403	0,7	21
47-32ZH30-1F	ZH30 K4E-PFJ-524	4,0	7/8"	1/2"	247	241	438	1,9	38

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		-20,0		-15,0		-10,0		-5,0		0,0		5,0		7,0		10,0		12,5	
		Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZH12	t <sub>o</sub>																		
	t <sub>k</sub>			2,8	1,2	3,3	1,2	3,9	1,3	4,6	1,3	5,4	1,3						
ZH15	40	3,04	1,15	3,64	1,19	4,33	1,23	5,15	1,26	6,10	1,28	7,20	1,31	7,69	1,32	8,48	1,34	9,19	1,36
	50	3,04	1,41	3,59	1,47	4,22	1,51	4,95	1,54	5,81	1,57	6,80	1,59	7,25	1,60	7,96	1,62	8,60	1,63
	60	-	-	-	-	4,15	1,87	4,80	1,91	5,55	1,94	6,43	1,97	6,83	1,98	7,46	1,99	8,03	2,00

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		t <sub>0</sub>	-20,0		-15,0		-10,0		-5,0		0,0		5,0		7,0		10,0		12,5
	t <sub>k</sub>	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P	Q <sub>0</sub>	P
ZH19	40	3,88	1,48	4,63	1,53	5,50	1,59	6,53	1,65	7,71	1,71	9,08	1,77	9,69	1,79	10,65	1,83	-	-
	50	3,84	1,78	4,52	1,85	5,31	1,92	6,24	1,99	7,31	2,06	8,56	2,13	9,11	2,15	9,99	2,20	-	-
	60	-	-	-	-	5,14	2,31	5,96	2,39	6,91	2,47	8,02	2,55	8,51	2,58	9,29	2,63	-	-
ZH21	40	4,35	1,61	5,14	1,65	6,10	1,69	7,24	1,74	8,59	1,79	10,20	1,86	10,90	1,90	12,10	1,95	13,15	2,01
	50	4,32	1,94	5,05	2,01	5,91	2,07	6,93	2,12	8,14	2,19	9,57	2,26	10,20	2,29	11,25	2,34	12,20	2,39
	60	-	-	-	-	5,78	2,53	6,68	2,61	7,75	2,69	9,01	2,77	9,58	2,80	10,50	2,86	11,35	2,90
ZH26	40	5,52	2,02	6,55	2,07	7,77	2,13	9,20	2,18	10,85	2,25	12,80	2,32	13,65	2,36	15,05	2,41	16,30	2,46
	50	5,38	2,43	6,32	2,50	7,43	2,58	8,74	2,65	10,25	2,73	12,05	2,81	12,80	2,85	14,10	2,91	15,20	2,96
	60	-	-	-	-	7,14	3,13	8,30	3,23	9,67	3,33	11,25	3,43	11,95	3,47	13,10	3,54	14,15	3,60
ZH30	40	6,32	2,34	7,49	2,41	8,89	2,48	10,55	2,54	12,55	2,61	14,85	2,68	15,85	2,71	17,50	2,75	19,00	2,79
	50	6,28	2,83	7,33	2,93	8,59	3,02	10,10	3,11	11,85	3,19	13,95	3,26	14,85	3,30	16,35	3,35	17,70	3,39
	60	-	-	-	-	8,39	3,69	9,70	3,80	11,25	3,91	13,10	4,01	13,95	4,04	15,30	4,10	16,50	4,15
ZH38	40	7,71	2,77	9,21	2,89	10,95	2,99	13,00	3,08	15,35	3,18	18,15	3,29	19,35	3,34	21,30	3,42	23,10	3,51
	50	7,53	3,30	8,96	3,48	10,60	3,63	12,45	3,75	14,60	3,86	17,15	3,97	18,25	4,01	20,10	4,08	21,70	4,15
	60	-	-	-	-	10,25	4,36	11,95	4,54	13,90	4,68	16,20	4,81	17,20	4,86	18,85	4,93	20,30	5,00
ZH45	40	9,22	3,27	11,05	3,41	13,15	3,54	15,55	3,66	18,40	3,77	21,70	3,89	23,10	3,94	25,50	4,02	27,60	4,10
	50	8,93	3,85	10,65	4,07	12,60	4,26	14,90	4,43	17,50	4,58	20,50	4,73	21,90	4,78	24,00	4,87	26,00	4,95
	60	-	-	-	-	12,15	5,08	14,25	5,32	16,65	5,54	19,45	5,73	20,70	5,81	22,70	5,92	24,40	6,01
ZH56	40	11,60	4,38	13,85	4,58	16,45	4,75	19,50	4,93	23,00	5,11	27,10	5,32	28,90	5,41	31,90	5,57	34,50	5,72
	50	11,30	4,98	13,40	5,26	15,80	5,51	18,55	5,74	21,80	5,95	25,50	6,18	27,10	6,28	29,70	6,43	32,10	6,57
	60	-	-	-	-	15,35	6,42	17,85	6,73	20,70	7,01	24,10	7,28	25,50	7,39	27,90	7,56	30,00	7,70
ZH75	40	16,00	5,69	19,20	6,02	22,90	6,27	27,10	6,48	32,00	6,66	37,70	6,85	40,20	6,94	44,20	7,09	47,90	7,22
	50	15,45	6,45	18,50	6,96	21,90	7,36	25,80	7,68	30,30	7,95	35,50	8,20	37,70	8,29	41,40	8,45	44,70	8,58
	60	-	-	-	-	20,80	8,49	24,40	9,00	28,50	9,42	33,10	9,78	35,20	9,92	38,50	10,10	41,40	10,30
ZH92	40	20,30	6,94	24,40	7,36	29,00	7,73	34,40	8,08	40,60	8,44	47,80	8,83	51,00	9,00	56,10	9,28	60,60	9,54
	50	19,45	7,88	23,40	8,50	27,80	9,03	32,80	9,51	38,50	9,97	45,10	10,40	47,90	10,60	52,60	10,90	56,70	11,15
	60	-	-	-	-	26,40	10,45	31,00	11,15	36,30	11,75	42,30	12,35	44,90	12,55	49,10	12,90	52,90	13,20
ZH11	40	24,90	8,47	29,60	8,92	35,10	9,31	41,50	9,70	49,00	10,15	57,70	10,70	61,60	10,95	67,90	11,45	73,60	11,90
	50	23,90	9,57	28,40	10,30	33,60	10,90	39,50	11,45	46,30	11,90	54,30	12,45	57,80	12,70	63,50	13,05	68,60	13,40
	60	-	-	-	-	32,00	12,70	37,50	13,50	43,80	14,15	51,00	14,80	54,20	15,05	59,40	15,45	64,00	15,80
ZH09	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	6,60	2,40	7,60	2,40	8,70	2,50	9,90	2,60	11,20	2,60	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZH13	40	8,02	2,71	9,35	2,79	10,80	2,84	12,45	2,89	14,25	2,92	16,30	2,95	17,15	2,96	18,55	2,98	19,80	3,00
	50	8,30	3,34	9,61	3,45	11,05	3,54	12,65	3,61	14,40	3,66	16,35	3,71	17,20	3,73	18,50	3,75	19,70	3,77
	60	8,69	4,14	9,96	4,29	11,35	4,42	12,85	4,52	14,55	4,61	16,40	4,68	17,20	4,70	18,45	4,74	19,55	4,77
ZH18	40	11,55	3,93	13,40	4,03	15,45	4,09	17,70	4,14	20,10	4,18	22,90	4,23	24,00	4,26	25,90	4,30	27,50	4,35
	50	11,75	4,71	13,60	4,89	15,60	5,02	17,80	5,11	20,20	5,18	22,90	5,24	24,00	5,26	25,80	5,30	27,30	5,33
	60	12,25	5,75	14,15	6,05	16,15	6,27	18,35	6,44	20,70	6,57	23,30	6,66	24,40	6,70	26,10	6,74	27,60	6,78
ZH24	40	14,40	5,09	16,85	5,31	19,55	5,47	22,50	5,58	25,70	5,68	29,30	5,76	30,80	5,79	33,20	5,84	35,30	5,89
	50	14,70	5,98	17,20	6,30	19,90	6,55	22,80	6,74	25,90	6,90	29,30	7,02	30,80	7,07	33,10	7,14	35,10	7,19
	60	15,20	7,05	17,70	7,49	20,30	7,86	23,10	8,15	26,00	8,39	29,30	8,58	30,70	8,66	32,80	8,76	34,70	8,84

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		t <sub>o</sub>	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5
	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZH33	40	20,40	6,74	23,60	7,01	27,20	7,24	31,20	7,43	35,60	7,58	40,50	7,69	42,60	7,72	45,90	7,76	48,80	7,78
	50	20,80	8,00	24,00	8,40	27,60	8,75	31,50	9,05	35,80	9,32	40,60	9,53	42,60	9,61	45,70	9,71	48,50	9,78
	60	21,50	9,56	24,80	10,10	28,30	10,60	32,20	11,05	36,40	11,45	41,00	11,80	42,90	11,95	46,00	12,10	48,70	12,25
ZH40	40	25,20	8,36	29,40	8,67	34,00	8,97	39,30	9,26	45,20	9,56	51,80	9,87	54,70	9,99	59,20	10,20	63,20	10,35
	50	26,00	10,00	30,10	10,45	34,60	10,85	39,60	11,25	45,30	11,60	51,60	12,00	54,30	12,15	58,60	12,40	62,40	12,60
	60	27,30	12,10	31,20	12,70	35,50	13,25	40,30	13,75	45,70	14,25	51,60	14,75	54,20	14,95	58,30	15,25	61,90	15,55
ZH48	40	30,50	9,98	35,50	10,40	41,20	10,70	47,60	11,00	54,80	11,40	63,10	11,90	66,70	12,15	72,40	12,55	77,50	13,00
	50	31,10	11,85	36,10	12,50	41,70	13,05	47,90	13,50	54,80	13,90	62,70	14,30	66,10	14,50	71,50	14,85	76,40	15,20
	60	32,10	14,05	37,20	15,15	42,70	16,00	48,70	16,70	55,50	17,25	63,00	17,75	66,20	18,00	71,40	18,30	76,00	18,60

t<sub>o</sub>: evaporating temperature [°C]Q<sub>o</sub>: cooling capacity [W]t<sub>k</sub>: condensing temperature [°C]

P: power input [W]

### Compressors Copeland ZH

R-410A

Code	Type	Displacement [m <sup>3</sup> /h]	Connection - solder		Diameters [mm]			Oil [l]	Weight [kg]
			suction	discharge	length	width	height		
47-32ZH05-K1P	ZH05-K1P TFM524	4,0	3/4"	1/2"	242	242	407	0,70	22
47-32ZH06-K1P	ZH06-K1P TFM524	5,1	7/8"	1/2"	242	242	422	1,20	31
47-32ZH09-K1P	ZH09-K1P TFM524	6,9	7/8"	1/2"	242	242	422	1,20	33
47-32ZH12-K1P	ZH12-K1P TFM524	8,9	7/8"	1/2"	242	242	422	1,20	35
47-32ZH15-K1P	ZH15-K1P TFM524	11,7	7/8"	1/2"	245	249	455	1,90	39
47-32ZH-19-K1P	ZH19-K1P TFM524	14,8	7/8"	3/4"	229	198	388	1,90	39

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		t <sub>o</sub>	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5
	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZH05	40	3,43	1,36	4,06	1,40	4,43	1,43	4,83	1,43	5,24	1,43	5,67	1,43	6,12	1,41	6,59	1,41	7,08	1,40
	50			3,89	1,69	4,55	1,74	5,28	1,77	6,11	1,79	7,05	1,79	7,46	1,78	8,12	1,78	8,71	1,77
	60							5,02	2,18	5,77	2,23	6,61	2,25	6,98	2,25	7,56	2,26	8,09	2,26
ZH06	40	4,65	1,80	5,40	1,82	6,29	1,83	7,32	1,84	8,51	1,83	9,88	1,81	10,45	1,80	11,40	1,78	12,25	1,75
	50	4,64	2,21	5,31	2,24	6,09	2,27	7,01	2,29	8,06	2,29	9,27	2,29	9,80	2,28	10,65	2,27	11,40	2,25
	60					5,93	2,81	6,71	2,83	7,61	2,85	8,65	2,86	9,11	2,86	9,84	2,85	10,50	2,84
ZH09	40	6,30	2,28	7,36	2,34	8,57	2,37	9,95	2,39	11,50	2,39	13,30	2,38	14,10	2,37	15,35	2,35	16,50	2,34
	50	6,15	2,74	7,13	2,84	8,23	2,91	9,47	2,96	10,85	2,98	12,45	2,99	13,15	2,99	14,30	2,98	15,30	2,97
	60					7,89	3,54	8,97	3,62	10,20	3,68	11,60	3,72	12,20	3,72	13,15	3,73	14,05	3,73
ZH12	40	8,07	2,89	9,39	2,97	10,90	3,01	12,65	3,02	14,65	3,02	16,95	3,01	18,00	3,01	19,60	3,00	21,10	3,00
	50	7,95	3,52	9,15	3,65	10,50	3,74	12,10	3,78	13,85	3,80	15,95	3,79	16,85	3,79	18,30	3,78	19,60	3,77
	60					10,15	4,62	11,50	4,72	13,05	4,77	14,85	4,79	15,60	4,79	16,90	4,78	18,05	4,77
ZH15	40	10,65	3,82	12,40	3,90	14,45	3,98	16,80	4,05	19,45	4,09	22,50	4,12	23,80	4,12	26,00	4,12	27,80	4,11
	50	10,40	4,61	12,00	4,74	13,85	4,86	15,95	4,97	18,35	5,07	21,10	5,15	22,30	5,17	24,20	5,21	25,90	5,23
	60					13,40	5,95	15,25	6,11	17,35	6,27	19,75	6,41	20,80	6,46	22,50	6,53	24,00	6,58
ZH19	40	13,05	4,52	15,35	4,68	17,90	4,81	20,90	4,92	24,30	5,02	28,20	5,10	29,90	5,13	32,60	5,17	35,00	5,20
	50	12,70	5,42	14,80	5,63	17,15	5,82	19,80	5,98	22,80	6,12	26,30	6,24	27,80	6,28	30,20	6,34	32,40	6,39
	60					16,35	7,02	18,70	7,24	21,40	7,44	24,40	7,61	25,80	7,67	27,80	7,75	29,80	7,82



## Compressors Copeland ZP - solder

R-410A, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Displacement [m³/h]	Connection - solder	
			suction	discharge
47-32ZP23	ZP23 K3E-TFD 522	4,0	3/4"	1/2"
47-32ZP26	ZP26 K3E-TFD 522	4,4	3/4"	1/2"
47-32ZP32	ZP47-32K3E-TFD 522	5,3	3/4"	1/2"
47-32ZP36	ZP36 KSE-TMF 522	6,0	7/8"	1/2"
47-32ZP41	ZP41 K3E-TFD 522	6,9	3/4"	1/2"
47-32ZP42	ZP42 KSE-TFD 522	6,9	7/8"	1/2"
47-32ZP54	ZP54 K3E-TFD 522	8,9	7/8"	1/2"
47-32ZP61	ZP61 KCE-TFD 522	10,1	7/8"	1/2"
47-32ZP72	ZP72 KCE-TFD 522	11,7	7/8"	1/2"
47-32ZP83	ZP83 KCE-TFD 522	13,4	7/8"	1/2"
47-32ZP90	ZP90 KCE-TFD 522	14,6	1 1/8"	7/8"
47-32ZP103	ZP103 KCE-TFD 522	16,7	1 3/8"	7/8"
47-32ZP120	ZP120 KCE-TFD 522	19,7	1 3/8"	7/8"
47-32ZP154	ZP154 KCE-TFD 522	24,8	1 3/8"	7/8"
47-32ZP182	ZP182 KCE-TFD 522	29,1	1 3/8"	7/8"

Type	Diameters [mm]			Oil charge [l]	Weight [kg]
	length	width	height		
ZP23 K3E-TFD 522	246	246	362	1,12	28,6
ZP26 K3E-TFD 522	242	242	362	1,10	30,0
ZP47-32K3E-TFD 522	246	246	384	1,24	28,1
ZP36 KSE-TMF 522	242	242	421	1,25	30,0
ZP41 K3E-TFD 522	242	242	397	1,25	32,5
ZP42 KSE-TFD 522	242	242	421	1,25	31,0
ZP54 K3E-TFD 522	246	246	443	1,95	38,1
ZP61 KCE-TFD 522	245	249	440	1,66	40,0
ZP72 KCE-TFD 522	245	249	440	1,77	40,0
ZP83 KCE-TFD 522	241	247	440	1,77	40,0
ZP90 KCE-TFD 522	264	284	476	2,65	57,0
ZP103 KCE-TFD 522	264	284	533	3,38	59,0
ZP120 KCE-TFD 522	264	284	533	3,38	61,0
ZP154 KCE-TFD 522	264	284	552	3,38	65,0
ZP182 KCE-TFD 522	264	284	552	3,38	66,0



Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		t <sub>o</sub>	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5
	t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZP23	30	2,34	1,09	2,94	1,13	3,67	1,13	4,52	1,13	5,50	1,11	6,60	1,10	7,08	1,10	7,83	1,11	8,50	1,12
	40	2,01	1,39	2,54	1,42	3,20	1,43	3,96	1,42	4,83	1,42	5,82	1,43	6,25	1,43	6,93	1,45	7,52	1,48
	50	-	-	-	-	2,69	1,84	3,36	1,83	4,12	1,83	4,99	1,84	5,37	1,85	5,96	1,88	6,49	1,92
ZP26	30	2,60	1,39	3,25	1,33	4,01	1,28	4,90	1,24	5,93	1,20	7,12	1,16	7,64	1,15	8,46	1,12	9,20	1,10
	40	2,24	1,89	2,83	1,79	3,52	1,71	4,32	1,65	5,24	1,59	6,31	1,54	6,78	1,52	7,52	1,49	8,19	1,47
	50	-	-	-	-	2,97	2,30	3,67	2,20	4,49	2,11	5,43	2,04	5,85	2,01	6,51	1,97	7,10	1,94
ZP32	30	3,21	1,61	4,25	1,57	5,39	1,53	6,62	1,49	7,90	1,44	9,20	1,40	9,71	1,39	10,50	1,37	11,10	1,35
	40	2,49	2,11	3,44	2,06	4,50	2,00	5,64	1,94	6,81	1,88	8,01	1,84	8,48	1,82	9,18	1,80	9,75	1,79
	50	-	-	-	-	3,48	2,65	4,54	2,56	5,63	2,48	6,73	2,40	7,17	2,38	7,81	2,35	8,33	2,32
ZP36	30	3,78	1,71	4,74	1,70	5,83	1,69	7,09	1,67	8,57	1,64	10,30	1,62	11,10	1,60	12,35	1,58	13,50	1,57
	40	3,08	2,21	4,07	2,17	5,14	2,14	6,32	2,12	7,67	2,09	9,22	2,08	9,90	2,07	11,00	2,06	12,00	2,06
	50	-	-	-	-	4,20	2,77	5,32	2,72	6,56	2,67	7,94	2,64	8,54	2,62	9,51	2,61	10,40	2,61
ZP41	30	4,32	1,89	5,37	1,89	6,61	1,88	8,05	1,87	9,70	1,84	11,60	1,81	12,45	1,79	13,75	1,77	14,95	1,75
	40	3,67	2,40	4,62	2,40	5,74	2,39	7,03	2,38	8,52	2,36	10,25	2,34	11,00	2,32	12,20	2,31	13,30	2,29
	50	-	-	-	-	4,82	3,05	5,95	3,03	7,27	3,00	8,79	2,98	9,46	2,96	10,55	2,95	11,50	2,93
ZP42	30	4,14	1,91	5,33	1,89	6,67	1,87	8,18	1,86	9,89	1,83	11,85	1,80	12,65	1,79	14,00	1,76	15,25	1,74
	40	3,29	2,47	4,44	2,43	5,71	2,40	7,12	2,37	8,70	2,35	10,50	2,33	11,25	2,32	12,50	2,30	13,60	2,29
	50	-	-	-	-	4,57	3,11	5,88	3,05	7,34	3,01	8,96	2,98	9,67	2,96	10,80	2,95	11,80	2,94
ZP54	30	5,94	2,51	7,30	2,50	8,88	2,47	10,70	2,44	12,80	2,41	15,20	2,38	16,25	2,37	17,90	2,36	19,40	2,36
	40	5,11	3,31	6,40	3,26	7,85	3,21	9,51	3,16	11,40	3,12	13,55	3,10	14,45	3,10	15,95	3,10	17,25	3,12
	50	-	-	-	-	6,56	4,26	8,10	4,14	9,83	4,05	11,75	3,98	12,60	3,97	13,90	3,95	15,10	3,96
ZP61	30	6,09	2,99	7,80	2,95	9,67	2,91	11,75	2,86	14,15	2,81	16,85	2,76	18,10	2,73	20,00	2,70	21,70	2,66
	40	4,78	3,78	6,50	3,73	8,34	3,68	10,35	3,61	12,60	3,54	15,15	3,46	16,25	3,43	18,05	3,38	19,65	3,33
	50	-	-	-	-	6,70	4,60	8,62	4,52	10,70	4,43	13,05	4,34	14,10	4,30	15,70	4,23	17,20	4,17
ZP72	30	7,59	3,19	9,40	3,19	11,50	3,20	13,90	3,21	16,65	3,23	19,85	3,26	21,20	3,28	23,40	3,30	25,40	3,32
	40	6,55	4,00	8,20	4,01	10,10	4,02	12,30	4,03	14,80	4,04	17,65	4,05	18,90	4,06	20,90	4,07	22,70	4,08
	50	-	-	-	-	8,55	5,06	10,50	5,08	12,70	5,09	15,25	5,09	16,35	5,10	18,15	5,10	19,75	5,09
ZP83	30	8,76	3,45	10,90	3,48	13,35	3,52	16,10	3,55	19,25	3,60	22,80	3,67	24,40	3,71	26,90	3,77	29,20	3,83
	40	7,43	4,44	9,39	4,47	11,60	4,49	14,15	4,51	17,10	4,55	20,40	4,59	21,90	4,62	24,20	4,66	26,30	4,71
	50	-	-	-	-	9,76	5,74	12,05	5,75	14,65	5,76	17,70	5,78	19,00	5,79	21,10	5,82	23,10	5,84
ZP90	30	9,61	4,06	11,85	4,05	14,50	4,05	17,55	4,06	21,10	4,09	25,10	4,13	26,80	4,16	29,60	4,20	32,10	4,25
	40	8,37	5,02	10,40	5,00	12,80	4,99	15,55	4,99	18,75	5,02	22,40	5,07	24,00	5,10	26,50	5,15	28,70	5,21
	50	-	-	-	-	10,85	6,32	13,35	6,27	16,20	6,25	19,40	6,25	20,80	6,27	23,10	6,30	25,10	6,34
ZP103	30	10,80	4,52	13,50	4,53	16,60	4,52	20,20	4,51	24,30	4,51	28,90	4,56	30,90	4,59	34,20	4,66	37,10	4,73
	40	9,06	5,73	11,70	5,70	14,60	5,67	17,90	5,63	21,60	5,63	25,80	5,66	27,60	5,69	30,50	5,76	33,00	5,84
	50	-	-	-	-	12,10	7,23	15,20	7,13	18,60	7,07	22,40	7,05	24,00	7,07	26,60	7,11	28,80	7,17
ZP120	30	12,95	5,15	16,20	5,15	19,90	5,14	24,00	5,13	28,60	5,15	33,80	5,21	36,00	5,25	39,60	5,33	42,70	5,41
	40	10,70	6,59	13,75	6,58	17,20	6,56	21,10	6,52	25,50	6,50	30,40	6,50	32,50	6,51	35,90	6,55	38,80	6,59
	50	-	-	-	-	14,25	8,39	17,75	8,32	21,70	8,26	26,20	8,21	28,10	8,19	31,20	8,18	34,00	8,19

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																		
		t <sub>o</sub>	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0		12,5	
		t <sub>k</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZP154	30	16,55	6,48	20,50	6,54	25,00	6,62	30,10	6,73	36,00	6,86	42,80	7,01	45,90	7,08	50,80	7,19	55,20	7,30	
	40	14,05	8,12	17,90	8,16	22,10	8,22	26,80	8,30	32,20	8,39	38,30	8,51	41,00	8,55	45,30	8,64	49,20	8,71	
	50	-	-	-	-	18,70	10,25	23,00	10,30	27,80	10,40	33,10	10,50	35,50	10,50	39,30	10,55	42,70	10,60	
ZP182	30	19,40	7,69	24,00	7,80	29,30	7,91	35,30	8,02	42,20	8,13	50,40	8,23	54,00	8,27	59,90	8,31	65,20	8,34	
	40	16,65	9,51	21,10	9,59	26,00	9,69	31,50	9,80	37,70	9,92	44,90	10,05	48,10	10,10	53,20	10,15	57,90	10,20	
	50	-	-	-	-	22,20	12,00	27,10	12,05	32,70	12,15	39,00	12,25	41,80	12,30	46,30	12,35	50,30	12,40	

 t<sub>o</sub>: evaporating temperature [°C]

 Q<sub>o</sub>: cooling capacity [W]

 t<sub>k</sub>: condensing temperature [°C]

P: power input [W]

## Compressors Copeland ZS

R-410A, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Displacement [m³/h]	Connection - Rotalock	
			suction	discharge
47-32ZS21	ZS21 K4E-TFD-551	8,0	1 1/4"	1"
47-32ZS26	ZS26 K4E-TFD-551	9,9	1 1/4"	1"
47-32ZS30	ZS30 K4E-TFD-551	11,7	1 1/4"	1"
47-32ZS38	ZS38 K4E-TFD-551	14,4	1 1/4"	1"
47-32ZS45	ZS45 K4E-TFD-551	17,2	1 1/4"	1"
47-32ZS56	ZS56 K4E-TWD-551	20,9	1 3/4"	1 1/4"
47-32ZS75	ZS75 K4E-TWD-551	28,9	1 3/4"	1 1/4"
47-32ZS92	ZS92 K4E-TWD-551	35,6	1 3/4"	1 1/4"
47-32ZS11	ZS11 M4E-TWD-551	42,1	2 1/4"	1 3/4"

Type	Diameters [mm]			Oil charge [l]	Weight [kg]
	length	width	height		
ZS21 K4E-TFD-551	243	244	391	1,50	30,0
ZS26 K4E-TFD-551	243	244	405	1,50	33,0
ZS30 K4E-TFD-551	241	244	438	1,90	37,0
ZS38 K4E-TFD-551	241	244	438	1,90	38,0
ZS45 K4E-TFD-551	241	244	438	1,90	39,5
ZS56 K4E-TWD-551	368	319	525	4,14	100,2
ZS75 K4E-TWD-551	368	319	532	4,14	100,2
ZS92 K4E-TWD-551	357	324	532	4,14	96,2
ZS11 M4E-TWD-551	324	294	579	4,14	106,6

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW]																	
		-30,0		-25,0		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZS11	30	14,30	7,62	17,75	8,06	21,70	8,49	26,20	8,94	31,30	9,43	36,90	10,00	43,20	10,65	50,10	11,45	53,00	11,80
	40			15,55	9,36	18,95	9,85	22,90	10,30	27,40	10,80	32,50	11,35	38,20	11,95	44,60	12,60	47,30	12,90
	50					15,85	11,55	19,15	12,10	22,90	12,60	27,30	13,10	32,30	13,70	38,00	14,30	40,40	14,55
ZS21	30	2,73	1,52	3,37	1,58	4,12	1,65	4,99	1,74	6,00	1,85	7,16	1,96	8,49	2,10	10,00	2,24	10,65	2,30
	40	2,42	1,81	2,97	1,86	3,62	1,93	4,37	2,01	5,24	2,11	6,25	2,22	7,41	2,34	8,73	2,48	9,31	2,53
	50			2,53	2,22	3,07	2,28	3,69	2,35	4,43	2,44	5,28	2,54	6,26	2,66	7,40	2,79	7,89	2,85
ZS26	30	3,43	1,87	4,21	1,94	5,12	2,04	6,19	2,15	7,44	2,28	8,88	2,42	10,55	2,59	12,45	2,76	13,25	2,84
	40	3,04	2,20	3,72	2,27	4,51	2,35	5,43	2,46	6,51	2,58	7,77	2,71	9,23	2,87	10,90	3,03	11,65	3,10
	50			3,16	2,68	3,81	2,76	4,59	2,86	5,49	2,98	6,56	3,11	7,80	3,25	9,24	3,41	9,88	3,48
ZS30	30	3,98	2,00	4,93	2,08	6,03	2,19	7,30	2,30	8,74	2,44	10,35	2,59	12,20	2,76	14,25	2,95	15,10	3,03
	40	3,48	2,41	4,31	2,49	5,27	2,59	6,38	2,70	7,66	2,83	9,11	2,97	10,75	3,13	12,60	3,30	13,40	3,37
	50			3,62	3,02	4,42	3,12	5,35	3,23	6,44	3,35	7,70	3,48	9,13	3,62	10,75	3,78	11,50	3,85
ZS38	30	4,91	2,45	6,08	2,58	7,44	2,73	9,01	2,90	10,80	3,09	12,90	3,31	15,25	3,56	17,95	3,85	19,10	3,97
	40	4,29	2,95	5,30	3,09	6,47	3,24	7,84	3,41	9,43	3,60	11,25	3,80	13,35	4,04	15,75	4,30	16,80	4,41
	50			4,44	3,73	5,40	3,90	6,53	4,07	7,86	4,25	9,41	4,45	11,20	4,67	13,30	4,92	14,20	5,02
ZS45	30	5,85	3,01	7,20	3,14	8,78	3,29	10,65	3,46	12,80	3,65	15,35	3,85	18,25	4,07	21,60	4,30	23,00	4,40
	40	5,17	3,53	6,34	3,67	7,70	3,83	9,30	4,00	11,15	4,18	13,35	4,38	15,90	4,59	18,85	4,82	20,10	4,91
	50			5,37	4,33	6,50	4,49	7,83	4,67	9,40	4,85	11,25	5,05	13,40	5,26	15,95	5,48	17,05	5,57
ZS56	30	6,97	3,90	8,64	4,08	10,60	4,26	12,90	4,45	15,55	4,67	18,60	4,94	22,20	5,26	26,20	5,66	27,90	5,84
	40			7,61	4,71	9,33	4,94	11,30	5,16	13,60	5,38	16,30	5,62	19,35	5,89	22,80	6,21	24,30	6,36
	50					7,93	5,69	9,59	5,97	11,50	6,24	13,70	6,49	16,25	6,75	19,20	7,03	20,50	7,15
ZS75	30	9,65	5,42	12,10	5,70	14,85	6,00	18,05	6,33	21,70	6,72	25,80	7,19	30,50	7,78	35,90	8,50	38,20	8,83
	40			10,60	6,71	13,05	7,06	15,85	7,40	19,05	7,76	22,70	8,16	26,90	8,63	31,60	9,19	33,70	9,45
	50					11,05	8,31	13,40	8,74	16,10	9,13	19,15	9,53	22,70	9,94	26,70	10,40	28,50	10,60
ZS92	30	12,00	6,19	14,90	6,60	18,30	6,98	22,20	7,36	26,80	7,76	32,10	8,18	38,20	8,65	45,00	9,17	48,00	9,40
	40			13,05	7,60	16,05	8,07	19,50	8,51	23,50	8,94	28,00	9,36	33,30	9,81	39,20	10,30	41,90	10,50
	50					13,60	9,31	16,50	9,85	19,80	10,35	23,60	10,85	28,00	11,30	33,00	11,80	35,20	12,00

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

### Compressors Copeland CRNQ, piston

R-410C

Code	Displacement [m <sup>3</sup> /h]	LRA [A]	Noise [dBA]	Diameters [mm]			Connection		Weight [kg]
				length	width	height	suction	discharge	
47-32CRNQ-050E- -TFD	17,7	2	65	290	255	422	7/8"	1/2"	38

Type	Cond. tem. [°C]	Cooling / Input	Evaporating temperature [°C] / cooling capacity [kW], EN 13215							
			-20,0	-15,0	-10,0	-5,0	0	5,0	7,0	10,0
CRNQ-050E-TFD	30	Q <sub>o</sub>	5,92	7,94	10,37	13,24	16,58	20,39	22,06	24,76
		P	2,36	2,69	2,97	3,2	3,39	3,57	3,64	3,74
	35	Q <sub>o</sub>	5,22	7,15	9,46	12,19	15,35	19,02	20,6	23,15
		P	2,36	2,76	3,1	3,38	3,62	3,84	3,92	4,04
	40	Q <sub>o</sub>	4,52	6,36	8,54	11,12	14,12	17,57	19,08	21,49
		P	2,31	2,79	3,2	3,54	3,84	4,1	4,19	4,34

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Condensing unit Copeland OMQ

R-404A, 380 - 400 V, 50 HZ

Code	Description
47-32OMQ-45D	ZBD digital, low noise
47-32OMTQ-60	ZBD digital + standard ZB, low noise

Type	Conden. temp. [°C]	Evaporating temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	7
OMQ-45D TDF	27	4,95	6	7,25	8,55	10	11,5	13,2	14,9	15,6
	32	3,9	5,5	6,6	7,85	9,15	10,55	12,05	13,65	14,6
	38	3,35	4,2	5,9	6,95	8,15	9,4	10,7		
OMTQ-60 TDF	27	7,21	8,71	10,45	12,35	14,45	16,7	19,05	21,5	22,5
	32	5,89	8,1	9,68	11,45	13,35	15,4	17,55	19,8	20,7
	38	5,24	7,38	8,77	10,3	12	13,75			

## Oil management components TraxOil Alco

Code	Part No. Alco	Adapter flanges		Weight [kg]
		in	out	
47-32OM3-CBB	805032	1 1/8"	18 UNF	0,86
47-32OM3-CCA	805033	3/4"	14 NPTF	0,85
47-32OM3-CCC	805035	3 holes		0,92
47-32OM3-CCD	805031	1 3/4"	12 UNF	0,93
47-32OM3-CCE	805029	1 1/4"	12 UNF	-
47-32OM3-CUA	805030	3 or 4 holes		0,91

## Condensing unit Eazy Cool Copeland, ZXDE

400 V

Copeland EazyCool™ ZX Digital



1. Fully equipped electrical panel including overload protector and main switch, as well as electronic board for compressor protection and fan speed control features.
2. Copeland Scroll compressors with crankcase heater and fixed setting high and low pressure switches.
3. Easy, accessible suction and liquid line connections - slanted for compact design.
4. Adjustable low pressure control switch.
5. Liquid line isolatin valve for drier replacement.
6. Low speed fan motor with sickle blades.
7. Filter drier and sight glass.
8. Diagnostics module detects and displays the system mode.
9. Suction accumulator (LT version only).
10. Oil separator (LT version only).

Code	Type	Max. operating current [A]	Ventilators		Weight [kg]
			number	total input power [W]	
47-32ZXDE-040E-TFD	ZXDE-040E-TFD	7,7	2	246	104
47-32ZXDE-050E-TFD	ZXDE-050E-TFD	10,4	2	246	112
47-32ZXDE-060E-TFD	ZXDE-060E-TFD	11,6	2	246	114
47-32ZXDE-075E-TFD	ZXDE-075E-TFD	12,4	2	246	119

Type	Connection		Diameters [mm]			Sound level [dBA]	
	suction	discharge	height	width	depth	day	night
ZXDE-040E-TFD	7/8"	1/2"	1242	1029	424	40	37
ZXDE-050E-TFD	7/8"	1/2"	1242	1029	424	41	38
ZXDE-060E-TFD	7/8"	1/2"	1242	1029	424	41	38
ZXDE-075E-TFD	7/8"	1/2"	1242	1029	424	42	39

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW] EN12900: (subcooling 0 [K] / suction gas return 20 [°C] )															
		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0		10,0	
	t <sub>o</sub>	t <sub>11</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	
ZXDE-040E	27	5,66	2,52	6,82	2,63	8,12	2,72	9,59	2,80	11,25	2,90	13,05	3,02	13,85	3,07	15,05	3,17
	32	5,29	2,73	6,37	2,86	7,58	2,96	8,94	3,06	10,45	3,16	12,15	3,28	12,85	3,33	14,00	3,43
	38	4,83	3,04	5,80	3,19	6,89	3,32	8,11	3,43	9,48	3,54	11,00	3,66	11,65	3,71	12,70	3,80
ZXDE-050E	27	6,81	3,32	8,16	3,53	9,67	3,74	11,35	3,95	13,20	4,16	15,15	4,36	16,00	4,45	17,30	4,57
	32	6,36	3,58	7,62	3,80	9,03	4,02	10,60	4,25	12,25	4,47	14,10	4,70	14,85	4,78	16,05	4,91
	38	5,82	3,93	6,96	4,16	8,21	4,40	9,60	4,64	11,10	4,89	12,75	5,12	13,40	5,22	14,50	5,35
ZXDE-060E	27	7,95	4,00	9,49	4,26	11,20	4,53	13,10	4,81	15,15	5,09	17,35	5,37	18,25	5,48	19,65	5,65
	32	7,42	4,31	8,86	4,60	10,45	4,88	12,20	5,18	14,05	5,48	16,05	5,77	16,90	5,89	18,20	6,07
	38	6,78	4,74	8,06	5,04	9,47	5,35	11,00	5,66	12,65	5,98	14,45	6,29	15,20	6,42	16,35	6,60
ZXDE-075E	27	8,98	4,35	10,75	4,63	12,70	4,93	14,85	5,22	17,20	5,52	19,70	5,83	20,70	5,95	22,30	6,12
	32	8,39	4,69	10,00	5,00	11,85	5,31	13,80	5,62	15,95	5,94	18,25	6,26	19,20	6,39	20,70	6,58
	38	7,67	5,16	9,12	5,48	10,75	5,81	12,50	6,15	14,40	6,49	16,45	6,83	17,30	6,96	18,60	7,16

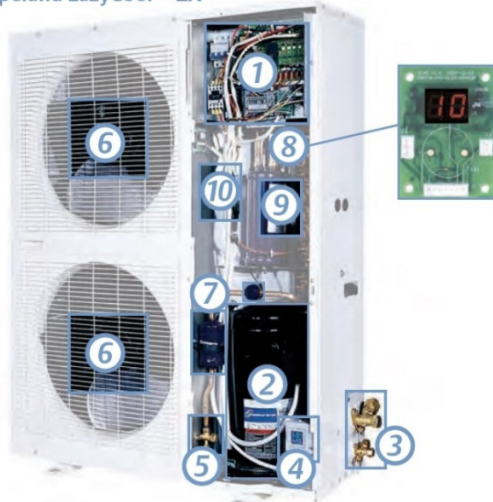
t<sub>o</sub>: evaporating temperature [°C]  
t<sub>c</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Condensing unit Eazy Cool Copeland, ZXDE-TFD

400 V / 50 HZ

Copeland EazyCool™ ZX



1. Fully equipped electrical panel including overload protector and main switch, as well as electronic board for compressor protection and fan speed control features.
2. Copeland Scroll compressors with crankcase heater and fixed setting high and low pressure switches.
3. Easy, accessible suction and liquid line connections - slanted for compact design.
4. Adjustable low pressure control switch.
5. Liquid line isolatin valve for drier replacement.
6. Low speed fan motor with sickle blades.
7. Filter drier and sight glass.
8. Diagnostics module detects and displays the system mode.
9. Suction accumulator (LT version only).
10. Oil separator (LT version only).

Code	Type	Max. operating current [A]	Ventilators		Weight [kg]
			number	total input power [W]	
47-32ZXLE-030E-TFD	ZXLE-030E-TFD	6,7	1	116	81
47-32ZXLE-040E-TFD	ZXLE-040E-TFD	9,2	1	116	93

Type	Connection		Diameters [mm]			Sound level [dBA]	
	suction	discharge	height	width	depth	day	night
ZXLE-030E-TFD	3/4"	1/2"	840	1029	424	40	37
ZXLE-040E-TFD	7/8"	1/2"	840	1029	424	40	37

**Condensing unit**  
**Eazy Cool Copeland, ZXLE-TFD**

380 - 400 V, 50 Hz

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW] EN12900: (subcooling 0 [K] / suction gas return 20 [°C])															
		-40,0		-35,0		-30,0		-25,0		-20,0		-15,0		-10,0		-5,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZXLE-030E	27	2,14	1,78	2,71	1,85	3,33	1,93	4,02	2,02	4,79	2,12	5,67	2,21	6,66	2,30	7,78	2,39
	32	2,06	1,99	2,60	2,06	3,19	2,15	3,84	2,24	4,58	2,34	5,42	2,44	6,37	2,54	7,44	2,63
	38	1,94	2,28	2,45	2,35	3,00	2,44	3,61	2,54	4,31	2,65	5,09	2,76	5,99	2,88	7,01	2,99
ZXLE-040E	27	3,30	2,57	4,10	2,72	5,04	2,89	6,11	3,08	7,31	3,29	8,63	3,51	10,05	3,74	11,55	3,96
	32	3,19	2,84	3,96	2,99	4,86	3,18	5,88	3,38	7,01	3,61	8,24	3,85	9,56	4,11	10,95	4,37
	38	3,06	3,22	3,79	3,38	4,63	3,59	5,57	3,82	6,61	4,08	7,74	4,36	8,93	4,65	10,20	4,96

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

**Condensing unit**  
**Eazy Cool Copeland ZXLE**

230 V / 50 Hz

Voltage: 220 - 240 V / 50 Hz

Code	Type	Max. operating current [A]	Ventilators		Weight [kg]
			number	total input power [W]	
47-32ZXLE-020E-PFJ	ZXLE-020E-PFJ	14,4	1	116	79
47-32ZXLE-025E-PFJ	ZXLE-025E-PFJ	16,4	1	116	80

Type	Connection		Diameters [mm]			Sound level [dBA]	
	suction	discharge	height	width	depth	day	night
ZXLE-020E-PFJ	3/4"	1/2"	840	1029	424	39	36
ZXLE-025E-PFJ	3/4"	1/2"	840	1029	424	40	37

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW] EN12900: (subcooling 0 [K] / suction gas return 20 [°C])															
		-40,0		-35,0		-30,0		-25,0		-20,0		-15,0		-10,0		-5,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZXLE-020E	27	1,36	1,45	1,76	1,64	2,23	1,72	2,77	1,75	3,38	1,77	4,06	1,83	4,80	1,97	5,59	2,25
	32	1,32	1,47	1,73	1,70	2,20	1,82	2,74	1,87	3,33	1,91	3,98	1,97	4,69	2,09	5,44	2,33
	38	1,27	1,52	1,69	1,79	2,17	1,94	2,69	2,02	3,26	2,05	3,88	2,10	4,54	2,20	5,24	2,40
ZXLE-025E	27	1,82	1,55	2,26	1,65	2,80	1,74	3,44	1,82	4,18	1,90	5,02	1,97	5,93	2,04	6,93	2,10
	32	1,79	1,77	2,21	1,87	2,72	1,96	3,33	2,05	4,03	2,13	4,81	2,20	5,68	2,27	6,62	2,34
	38	1,83	2,04	2,20	2,15	2,67	2,25	3,22	2,34	3,86	2,43	4,57	2,52	5,35	2,60	6,20	2,69

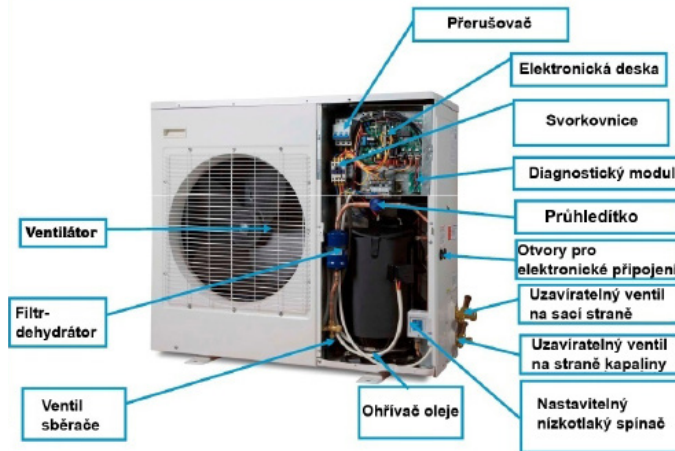
t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]



## Condensing unit Eazy Cool Copeland, ZXME-TFD

400 V / 50 HZ



Code	Type	Max. operating current [A]	Ventilators		Weight [kg]
			number	total input power [W]	
47-32ZXME-030E-TFD	ZXME-030E-TFD	6,1	1	116	79
47-32ZXME-040E-TFD	ZXME-040E-TFD	7,5	1	116	91
47-32ZXME-050E-TFD	ZXME-050E-TFD	9,6	2	246	108
47-32ZXME-060E-TFD	ZXME-060E-TFD	11,5	2	246	112

Type	Connection		Diameters [mm]			Sound level [dBA]	
	suction	discharge	height	width	depth	day	night
ZXME-030E-TFD	3/4"	1/2"	840	1029	424	40	37
ZXME-040E-TFD	7/8"	1/2"	840	1029	424	40	37
ZXME-050E-TFD	7/8"	1/2"	1242	1029	424	41	38
ZXME-060E-TFD	7/8"	1/2"	1242	1029	424	41	38

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW] EN12900: (subcooling 0 [K] / suction gas return 20 [°C])													
		-20,0		-15,0		-10,0		-5,0		0		5,0		7,0	
		t <sub>o</sub>	t <sub>11</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
ZXME-030E-TFD	27	3,98	2,13	4,78	2,19	5,67	2,25	6,64	2,32	7,71	2,39	8,86	2,47	9,35	2,50
	32	3,69	2,38	4,43	2,44	5,24	2,50	6,15	2,57	7,13	2,65	8,19	2,72	8,64	2,76
	38	3,32	2,72	3,98	2,78	4,71	2,85	5,52	2,92	6,40	2,99	7,36	3,07	7,76	3,10
ZXME-040E-TFD	27	5,34	2,87	6,39	2,96	7,56	3,06	8,84	3,17	10,25	3,28	11,70	3,41	12,35	3,46
	32	4,94	3,21	5,91	3,31	6,99	3,41	8,16	3,52	9,44	3,63	10,80	3,75	11,40	3,80
	38	4,43	3,68	5,30	3,78	6,26	3,88	7,31	3,99	8,45	4,10	9,67	4,22	10,20	4,27
ZXME-050E-TFD	27	6,88	3,56	8,28	3,65	9,83	3,74	11,55	3,85	13,45	3,96	15,50	4,07	16,35	4,12
	32	6,39	3,96	7,68	4,06	9,12	4,15	10,70	4,26	12,45	4,37	14,35	4,49	15,15	4,54
	38	5,76	4,52	6,92	4,62	8,22	4,72	9,64	4,82	11,20	4,93	12,90	5,05	13,65	5,10
ZXME-060E-TFD	27	7,92	4,10	9,50	4,22	11,25	4,35	13,15	4,49	15,25	4,64	17,50	4,80	18,45	4,86
	32	7,34	4,57	8,80	4,70	10,40	4,83	12,20	4,97	14,10	5,12	16,20	5,28	17,05	5,34
	38	6,59	5,22	7,90	5,35	9,35	5,48	10,95	5,62	12,65	5,77	14,50	5,93	15,30	5,99

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>c</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

**Condensing unit**  
**Eazy Cool Copeland, ZXME**

230 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Max. operating current [A]	Ventilators		Weight [kg]
			number	total input power [W]	
47-32ZXME-020E-PFJ	ZXME-020E-PFJ	12,8	1	116	76
47-32ZXME-025E-PFJ	ZXME-025E-PFJ	14,2	1	116	76

Type	Connection		Diameters [mm]			Sound level [dBA]	
	suction	discharge	height	width	depth	day	night
ZXME-020E-PFJ	3/4"	1/2"	840	1029	424	39	36
ZXME-025E-PFJ	3/4"	1/2"	840	1029	424	39	36

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [kW] EN12900: (subcooling 0 [K] / suction gas return 20 [°C])														
		$t_o$	-20,0		-15,0		-10,0		-5,0		0		5,0		7,0	
		$t_{11}$	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P	$Q_o$	P
ZXME-020E-PFJ	27	2,70	1,37	3,28	1,41	3,92	1,46	4,63	1,50	5,39	1,55	6,22	1,59	6,57	1,61	
	32	2,46	1,52	3,00	1,56	3,60	1,60	4,25	1,65	4,96	1,70	5,72	1,74	6,04	1,76	
	38	2,15	1,71	2,65	1,76	3,19	1,80	3,78	1,85	4,41	1,89	5,09	1,94	5,37	1,96	
ZXME-025E-PFJ	27	3,25	1,68	3,92	1,72	4,67	1,76	5,50	1,80	6,42	1,85	7,42	1,90	7,84	1,92	
	32	3,02	1,88	3,64	1,91	4,34	1,96	5,11	2,00	5,96	2,05	6,88	2,10	7,28	2,12	
	38	2,73	2,14	3,29	2,18	3,92	2,23	4,61	2,27	5,37	2,32	6,21	2,36	6,57	2,38	

 $t_o$ : evaporating temperature [°C]  
 $t_k$ : condensing temperature [°C]

 $Q_o$ : cooling capacity [W]  
P: power input [W]

## Compressors BOYARD

R407C, 230 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> ]	Height [mm]	Capacitor
47-32QXC-16K	QXC-16K 2FN2	2670	9078	900	16,4	293,0	25 uF
47-32QXC-19K	QXC-19K 4DN1	3020	10268	1050	19,3	286,0	30 uF
47-32QXC-21K	QXC-21K 4DN3	3580	12172	1210	21,3	307,5	30 uF
47-32QXC-23K	QXC-23K 4DN1	3830	13022	1280	23,5	307,5	35 uF
47-32QXC-25K	QXC-25K 4DN2	4100	13940	1380	25,4	307,5	35 uF
47-32QXC-30K	QXC-30K 4DN1	4780	17272	1710	29,2	316,5	35 uF
47-32QXC-33K	QXC-33K 5DS1	5600	19040	1925	33,6	316,5	50 uF
47-32QXC-41K	QXC-41K 6BT1	6980	23732	2540	41,7	340,9	50 uF

## Compressors BOYARD

R-134a, 230 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> ]	Height [mm]	Capacitor
47-32JVB075K	JVB075K	830	2822	290	7,5	219	15 uF
47-32JVB092K	JVB092K	1050	3570	390	9,2	219	15 uF
47-32JVB132K	JVB132K	1470	4998	500	13,2	250	20 uF
47-32KVB096K	KVB096K	1100	3740	370	9,6	265	15 uF
47-32KVB134K	KVB134K	1500	5100	490	13,5	265	20 uF

## Compressors BOYARD

R410A, 230 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> ]	Height [mm]	Capacitor
47-32KVA113K	KVA113K	2730	9282	960	11,3	276	25 uF

## Compressors Toshiba / GMCC

R407C, 230 V

Code	Type	Cooling capacity at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> /rev]
47-32PG225X2C-4FT	PG225X2C 4FT	3970	13538	1290	22,40

Code	Oil		Connection [mm]		Height [mm]	Weight [kg]	[rpm]	Noise level [dBA]	Capacitor
	type	charge [ml]	suction	discharge					
47-32PG225X2C-4FT	VG 74	480	1/2"	3/8"	292	15,8		67	35 uF

**Compressors  
Toshiba / GMCC**

R410A, 230 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> /rev]
47-32PA089M1C	PA089M1C-4DZDE	2170	7378		
47-32PA098M1C	PA098M1C-4DZDE1	2340	7984	780	9,8
47-32PA108M1C	PA108M1C-4DZDE2	2570	8769	860	10,8
47-32PA118M1C	PA118M1C-4FZ2	2780	9485	955	11,8
47-32PA125G1C	PA125G1C	2880	9792	990	12,4
47-32PA145G1C	PA145G1C-4FT1	3585	12232	1240	14,7
47-32PA215M2CS	PA215M2CS-4KT2	5285	18030	1760	21,4
47-32PA225M2CS	PA225M2CS-4KU2	5500	18755	1835	22,4
47-32PA270G2CS	PA270G2CS-4MU1	6825	23287	2235	27
47-32PA290G2CS	PA290G2CS-4MU1	7295	24891	2410	28,7
47-32PA331X3CS	PA331X3CS-4MU1	8190	27944	2715	32,6

Code	COP [W/W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	Connection [mm]		Diameters [mm]	Capacitor
		suction	discharge	height	
47-32PA089M1C		9,8	8,1	279	25 uF
47-32PA098M1C	2,98	9,8	8,1	279	25 uF
47-32PA108M1C	2,98	9,8	8,1	279	25 uF
47-32PA118M1C	2,91	9,8	8,1	279	25 uF
47-32PA125G1C		1/2"	3/8"	298	35 uF
47-32PA145G1C	2,89	12,9	8,1	298	35 uF
47-32PA215M2CS	3,00	12,9	8,1	340	50 uF
47-32PA225M2CS	3,00	12,9	8,1	340	50 uF
47-32PA270G2CS	3,05	16,2	9,8	344	60 uF
47-32PA290G2CS	3,03	16,2	9,8	344	50 uF
47-32PA331X3CS	3,02	16,2	9,8	382	55 uF

**Compressors  
rotary Samsung**

Voltage: 220 - 240 V / 50Hz



Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Displ. [cm <sup>3</sup> /rev]	Weight [kg]
47-32UG4A091JU	UG4A091JU	2699	9210	10,9	11,4
47-32UG4B124JX	UG4B124JX	3517	12000	14,1	12,2
47-32UG8D185JUA-EH	UG8D185JUA-EH	5539	18900	21,7	15,8
47-32UG5A240JU	UG5A240JU	7063	24100	29,3	20,1

## Compressors rotary LG

R-410A, 230 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> /rev]	Weight [kg]
47-32GK094P	GK094P	2271	7750	807	9,4	18,7
47-32GK113P	GK113P	2637	9000	909	11,3	12,3
47-32GK151P	GK151P	3619	12350	1260	15,1	12,8
47-32GJ176P	GJ176P	4220	14400	1485	17,6	14,7
47-32GJ222P	GJ222P	5275	18000	1837	22,2	14,7
47-32GP290P	GP290P	7179	24500	2475	29,0	22,2
47-32GP330PAA	GP330PAA	8205	28000	2800		25,8

Type	Oil		Connection [mm]		Diameters [mm]		Capacitor
	type	charge [l]	suction	discharge	height	ø	
GK094P	FVC 68D (PVE)	0,33	9,7	8,06	274,3	150	30 uF
GK113P	FVC 68D (PVE)	0,33	9,7	8,06	282,3	150	35 uF
GK151P	FVC 68D (PVE)	0,35	12,8	8,06	287,3	150	35 uF
GJ176P	FVC 68D (PVE)	0,44	12,8	9,7	293,6	176	50 uF
GJ222P	FVC 68D (PVE)	0,44	12,8	9,7	293,6	176	50 uF
GP290P	FVC 68D (PVE)	0,70	12,8	9,7	329,0	176	50 uF
GP330PAA	FVC 68D (PVE)		18,0	12,0	355,0	176	55 uF

## Compressors rotary LG

R-407C, 230 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> /rev]	Weight [kg]
47-32NK125P	NK125P	1993	6800	648	12,5	11,4
47-32NK134PL12	NK134PL12	2315	7900	752	13,4	11,4
47-32NK164PL12	NK164PL12	2842	9700	924	16,4	12,0
47-32NK185P	NK185P	3106	10600	1039	18,5	12,2
47-32NJ236PC23	NJ236PC23	4132	14100	1333	23,6	15,2
47-32NJ282PAB	NJ282PAB	4132	14100	1333	23,6	15,2
47-32NP407P	NP407P	6857	23400	2294	40,7	22,5

Type	Oil		Connection [mm]		Diameters [mm]		Capacitor
	type	charge [l]	suction	discharge	height	ø	
NK125P	FVC 68D	0,33	9,7	8,06	274,3	150	25 uF
NK134PL12	FVC 68D	0,33	12,8	8,06	285,0	150	25 uF
NK164PL12	FVC 68D	0,33	12,8	8,06	282,3	150	30 uF
NK185P	FVC 68D	0,33	9,7	8,06	275,0	150	35 uF
NJ236PC23	FVC 68D	0,41	12,8	9,7	293,3	176	30 uF
NJ282PAB	FVC 68D	0,41	12,8	9,7	293,3	176	30 uF
NP407P	FVC 68D	0,70	16,0	9,7	317,0	176	55 uF

**Compressors  
Scroll LG**

R-407C, 230 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> /rev]
47-32HQ028P	HQ028P	7 027	24000	2308	39,3
47-32HQ034P	HQ034P	8 498	29200	2760	47,61
47-32HQ040P	HQ040P	9 963	34000	3207	55,81

Type	Oil		Connection [mm]		Diameters [mm]		Weight [kg]
	type	charge [l]	suction	discharge	height	ø	
HQ028P	FVC 68D (PVE)	0,75	19,2	12,9	394,2	190,5	26
HQ034P	FVC 68D (PVE)	0,75	19,2	12,9	394,2	190,5	26
HQ040P	FVC 68D (PVE)	0,75	19,2	12,9	415	180	27

**Compressors  
Scroll LG**

R-407C, 400 V

Voltage: 380 - 420 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> /rev]
47-32HR049Y	HR049Y	12 366	42000	4058	67,1
47-32HR061Y	HR061Y	14 652	50000	4717	85,6
47-32HR073Y	HR073Y	17 800	60800	5739	85,6
47-32HR081Y	HR081Y	19 062	65000	6190	111



Type	Oil		Connection [mm]		Diameters [mm]		Weight [kg]
	type	charge [l]	suction	discharge	height	ø	
HR049Y	FVC 68D (PVE)	1,8	19,2	12,9	462	216	38
HR061Y	FVC 68D (PVE)	1,8	19,2	12,9	462	216	38
HR073Y	FVC 68D (PVE)	1,8	19,2	12,9	492	216	38
HR081Y	FVC 68D (PVE)	1,8	22,4	12,9	464,3	216	39

**Compressors  
Scroll LG**

R-410A, 400 V

Voltage: 380 - 420 V / 50Hz

Code	Type	Cooling capacity [W] at $t_o = +7,2\text{ °C}$ and $t_k = +54,4\text{ °C}$	[Btu/h]	Input [W]	Displ. [cm <sup>3</sup> ]
47-32AQA042Y	AQA042Y	10 403	35500	3550	41,37
47-32ARA049Y	ARA049Y	12 161	41500	4069	49,00
47-32ARA061Y	ARA061Y	14 945	51000	4950	54,00
47-32ARA073Y	ARA073Y	18 168	62000	6020	72,84
47-32ARA081Y	ARA081Y	20 075	68500	6716	81,02

Code	Oil		Connection [mm]		Diameters [mm]		Weight [kg]
	type	charge [l]	suction	discharge	height	ø	
47-32AQA042Y	FVC 68D(PVE)	0,90	19,2	12,9	411,5	180,0	27
47-32ARA049Y	FVC 68D(PVE)	1,80	22,4	12,9	473,9	234,5	39,2
47-32ARA061Y	FVC 68D(PVE)	1,80	22,4	12,9	477,5	234,5	40
47-32ARA073Y	FVC 68D(PVE)	1,80	22,4	12,9	477,5	234,5	40
47-32ARA081Y	FVC 68D(PVE)	1,80	22,4	12,9	473,5	234,5	40

**Compressors  
Scroll DAIKIN**

R-407C / R410A

Code	Type	Refrigerant	Displ. [cm <sup>3</sup> ]	Cooling capacity [kW] t <sub>o</sub> = +7,2 [°C]	Connection [mm]	
					suction	discharge
47-32JT90G-P8Y1	JT90G-P8Y1	R410A	33,1	8540	20	16
47-32JT125G-P8Y1	JT125G-P8Y1	R410A	46,0	11800	20	16
47-32JT160G-P8Y1	JT160G-P8Y1	R410A	56,8	14900	20	16
47-32JT95G-BB-Y1L	JT90G-BB-Y1L	R407C	45,8	9160	22	16
47-32JT125G-BB-Y1L	JT125G-BB-Y1L	R407C	63,2	11800	22	16
47-32JT160G-BB-Y1L	JT160G-BB-Y1L	R407C	79,2	14700	22	16
47-32JT170G-BB-Y1L	JT170G-BB-Y1L	R407C	84,0	15700	22	16
47-32JT300DA-Y1L	JT300DA-Y1L	R407C	163,0	29900	32	19
47-32JT335DA-Y1L	JT335DA-Y1L	R407C	184,2	34000	32	19

Type	Voltage	Refrigerant	[HP]	Cooling capacity		Connection Ø [mm]		Weight [kg]
				[kW]	[Btu/H]	suction	discharge	
JT90G-P8Y1	380-420V/3/50Hz 380-440V/3/60Hz	R410A	3	9,15	31170	19,17	16	32,9
JT125G-P8Y1		R410A	4	13,36	45570	19,17	16	36,6
JT160G-P8Y1		R410A	3	16,69	56970	19,17	16	37,9
JT95G-BB-Y1L		R407C	3	8,98	30650	22,1	16	29,0
JT125G-BB-Y1L		R407C	4	13,25	45200	22,1	16	31,6
JT160G-BB-Y1L		R407C	5	16,77	57220	22,1	16	32,2
JT170G-BB-Y1L		R407C	6	17,89	61050	22,1	16	33,1
JT300DA-Y1L		R407C	10	32,79	111890	31,8	19,1	69,0
JT335DA-Y1L		R407C	12	37,25	127100	31,8	19,1	71,0

**Compressors  
rotary HITACHI**

R-134a, 220 V

Voltage: 220 - 240 V / 50Hz

Code	Type	Cooling capacity		Displ. [m <sup>3</sup> /h]	COP	Cooling capacity [W] at t <sub>o</sub> = +7°C and t <sub>k</sub> = +54,4°C	Weight [kg]
		Btu/h	W				
47-32H-BSA357	BSA357CV	1245	365	3,57	2,15	370	4,0
47-32H-WHP01900BSV	WHP01900BSV	1965	1495	12,20	4,15	537	9,2
47-32H-BSA645	BSA645	2360	692	6,45	2,35	694	4,9
47-32H-BSD122DT	BSD122DT	5800	1700	12,20	2,98		5,5

**Compressors Scroll  
Sanyo / Panasonic**

HBP, R404A / R-407C, 400 V

Voltage: 380 - 420 V / 50Hz

Code	Type	Phase	Displ. [cm <sup>3</sup> ]	Cooling capacity [kW] / [°C]		Diameters [mm]			Weight [kg]
				R404A -5/45 [°C]	R407C +7,2/54 [°C]	length	width	height	
47-32C-SBN261H5A	standard	1	55,70	-	9,70	238,2	238,2	451,4	38,5
47-32C-SBN263H8B	standard	3	55,70	7,22	9,60	238,2	238,2	451,4	36,5
47-32C-SBN263H8G	tandem	3	55,70	7,22	9,60	238,2	238,2	451,4	36,5
47-32C-SBN303H8B	standard	3	66,80	8,73	11,60	238,2	238,2	451,4	37,5
47-32C-SBN303H8G	tandem	3	66,80	8,73	11,60	238,2	238,2	451,4	37,5
47-32C-SBN353H8B	standard	3	77,40	10,18	13,40	238,2	238,2	451,4	38,0
47-32C-SBN353H8G	tandem	3	77,40	10,18	13,40	238,2	238,2	451,4	38,0
47-32C-SBN373H8G	tandem	3	83,20	11,01	14,50	238,2	238,2	451,4	38,0
47-32C-SBN453H8A	standard	3	100,00	13,62	17,60	238,2	238,2	451,4	39,5
47-32C-SBN453H8G	tandem	3	100,00	13,62	17,60	238,2	238,2	451,4	39,5
47-32C-SBS235H38B	standard	3	110,20	15,09	19,50	238,2	238,2	451,4	40,0
47-32C-SCN603H8K	standard	3	137,00	18,49	24,50	249	249	538	66,5
47-32C-SCN603H8T	tandem	3	137,00	18,49	24,50	249	249	538	66,5
47-32C-SCN753H8H	standard	3	171,20	22,71	29,90	249	249	553	69,5
47-32C-SCN753H8K	standard	3	171,20	22,71	29,90	249	249	553	69,5
47-32C-SCN753H8T	tandem	3	171,20	22,71	29,90	249	249	553	69,5
47-32C-SCN903H8K	standard	3	205,40	27,03	34,90	249	249	553	70,5
47-32C-SCN903H8T	tandem	3	205,40	27,03	34,90	249	249	553	70,5

**Technical parameters  
Scroll Sanyo / Panasonic**

R404A, 380 - 420 V / 50 Hz

Type	Cond. tem. [°C]	Evaporating temperature [°C], cooling capacity [kW] superheat 11,1 [K], subcooling 8,3 [K]															
		-15,0		-10,0		-6,7		0		4,4		7,2		10,0		12,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
C-SBN263H8B	35	5,94	2,31	7,19	2,29	8,15	2,28	10,52	2,25	12,45	2,23	13,85	2,21	15,41	2,20	16,63	2,19
	45	4,96	2,87	6,00	2,86	6,81	2,85	8,78	2,82	10,38	2,80	11,55	2,79	12,84	2,77	13,86	2,76
	54,4			5,05	3,55	5,73	3,55	7,38	3,54	8,72	3,52	9,70	3,50	10,79	3,48	11,64	3,46
C-SBN303H8B	35	7,29	2,73	8,82	2,70	10,00	2,69	12,91	2,65	15,27	2,63	16,99	2,61	18,91	2,60	20,40	2,59
	45	6,09	3,39	7,36	3,80	8,35	3,36	10,77	3,33	12,73	3,31	14,17	3,29	15,76	3,27	17,00	3,26
	54,4			6,20	4,19	7,02	4,19	9,06	4,17	10,70	4,15	11,90	4,13	13,23	4,11	14,28	4,09



Type	Cond. tem. [°C]	Evaporating temperature [°C], cooling capacity [kW] superheat 11,1 [K], subcooling 8,3 [K]															
		-15,0		-10,0		-6,7		0		4,4		7,2		10,0		12,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
C-SBN353H8B	35	8,33	3,17	10,08	3,14	1,43	3,12	14,76	3,08	17,45	3,05	19,42	3,04	21,61	3,02	23,32	3,01
	45	6,96	3,94	8,42	3,92	9,54	3,91	12,31	3,87	14,55	3,85	16,19	3,83	18,01	3,80	19,43	3,79
	54,4			7,08	4,87	8,03	4,87	10,35	4,85	12,23	4,82	13,60	4,80	15,12	4,77	16,32	4,75
C-SBN453H8A	35	10,96	4,06	13,26	4,02	15,04	3,99	19,42	3,94	22,97	3,90	25,56	3,88	28,44	3,86	30,69	3,85
	45	9,16	5,04	11,08	5,02	12,56	5,00	16,20	4,95	19,16	4,92	21,31	4,89	23,70	4,87	25,58	4,84
	54,4			9,32	6,24	10,57	6,23	13,62	6,21	16,10	6,17	17,90	6,14	19,91	6,10	21,47	6,08
C-SBS235H38B	35	12,41	4,28	15,04	4,35	17,08	4,39	22,10	4,49	26,18	4,55	29,16	4,59	32,47	4,63	35,07	4,66
	45	9,92	5,35	12,09	5,41	13,78	5,45	17,95	5,54	21,36	5,60	23,86	5,63	26,65	5,67	28,85	5,70
	54,4			9,82	6,66	11,23	6,69	14,73	6,76	17,60	6,81	19,71	6,84	22,08	6,87	23,95	6,89
C-SCN903H8H	35	22,33	7,86	27,19	7,97	30,97	8,05	40,32	8,21	47,95	8,31	53,54	8,38	59,79	8,45	64,69	8,50
	45	18,07	9,58	22,03	9,72	25,12	9,81	32,77	10,01	39,03	10,14	43,62	10,22	48,75	10,30	52,78	10,37
	54,4			18,04	11,73	20,58	11,84	26,91	12,80	32,08	12,24	35,89	12,34	40,14	12,44	43,48	12,52

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Technical parameters Scroll Sanyo / Panasonic

## R407C, 400 V

Voltage: 380 - 420 V / 50Hz

Type	Cond. tem. [°C]	Evaporating temperature [°C], cooling capacity [kW] superheat 11,1 [K], subcooling 8,3 [K]															
		-15,0		-10,0		-6,7		0		4,4		7,2		10,0		12,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
C-SBN261H5A	35	4,77	2,28	5,87	2,30	6,73	2,32	8,88	2,36	10,65	2,38	11,96	2,40	13,43	2,42	14,59	2,43
	45	4,39	2,72	5,37	2,76	6,14	2,78	8,30	2,82	9,59	2,85	10,74	2,87	12,02	2,89	13,02	2,90
	54,4			4,94	3,27	5,63	3,29	7,32	3,34	8,69	3,38	9,70	3,40	10,82	3,42	11,71	3,44
C-SBN263H8B	35	5,26	2,16	6,42	2,17	7,33	2,17	9,59	2,16	11,44	2,15	12,80	2,14	14,32	2,12	15,52	2,11
	45	4,43	2,70	5,44	2,71	6,24	2,71	8,22	2,70	9,85	2,69	11,05	2,68	12,40	2,67	13,46	2,66
	54,4			4,65	3,36	5,34	3,37	7,09	3,37	8,53	3,36	9,60	3,35	10,80	3,40	11,75	3,33
C-SBN303H8G	35	6,35	2,45	7,76	2,46	8,86	2,46	11,59	2,45	13,83	2,43	15,47	2,42	17,30	2,41	18,75	2,40
	45	5,35	3,06	6,58	3,07	7,53	3,07	9,93	3,07	11,90	3,05	13,35	3,04	14,98	3,03	16,26	3,02
	54,4			5,62	3,82	6,46	3,82	8,56	3,82	10,31	3,81	11,60	3,80	13,05	3,79	14,20	3,78
C-SBN353H8B	35	7,42	2,88	9,04	2,91	10,30	2,92	13,43	2,94	15,98	2,95	17,86	2,95	19,95	2,94	21,59	2,94
	45	6,29	3,66	7,70	3,68	8,79	3,69	11,53	3,69	13,77	3,69	15,42	3,69	17,26	3,68	18,71	3,68
	54,4			6,60	4,63	7,56	4,63	9,96	4,62	11,94	4,61	13,40	4,60	15,04	4,59	16,33	4,58
C-SBN373H8G	35	8,03	3,10	9,79	3,13	11,15	3,14	14,53	3,16	17,30	3,17	19,32	3,17	21,58	3,17	23,36	3,16
	45	6,80	3,94	8,33	3,96	9,51	3,97	12,47	3,98	14,90	3,97	16,68	3,97	18,68	3,96	20,25	3,96
	54,4			7,14	4,99	8,18	4,98	10,78	4,97	12,92	4,96	14,50	4,95	16,27	4,94	17,67	4,93
C-SBN453H8A	35	10,12	3,58	12,26	3,61	13,92	3,62	18,00	3,65	21,30	3,67	23,72	3,68	26,41	3,69	28,51	3,69
	45	8,44	4,53	10,29	4,56	11,73	4,58	15,31	4,61	18,22	4,62	20,36	4,63	22,75	4,63	24,63	4,64
	54,4			8,71	5,75	9,97	5,77	13,11	5,79	15,70	5,80	17,60	5,80	19,73	5,80	21,42	5,80

Type	Cond. tem. [°C]	Evaporating temperature [°C], cooling capacity [kW] superheat 11,1 [K], subcooling 8,3 [K]															
		-15,0		-10,0		-6,7		0		4,4		7,2		10,0		12,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
C-SBN453H8G	35	10,12	3,58	12,26	3,61	13,92	3,62	18,00	3,65	21,30	3,67	23,72	3,68	26,41	3,69	28,51	3,69
	45	8,44	4,53	10,29	4,56	11,73	4,58	15,31	4,61	18,22	4,62	20,36	4,63	22,75	4,63	24,63	4,64
	54,4			8,71	5,75	9,70	5,77	13,10	5,79	15,70	5,80	17,60	5,80	19,73	5,80	21,42	5,80
C-SBS235H38B	30	10,89	3,93	13,07	3,97	14,75	4,01	18,84	4,10	22,13	4,18	24,52	4,23	27,17	4,29	29,22	4,33
	40	9,70	4,71	11,64	4,82	13,13	4,88	16,76	5,20	19,68	5,12	21,80	5,18	24,14	5,24	25,97	5,28
	50			10,42	5,80	11,75	5,91	15,00	6,11	17,61	6,23	19,50	6,30	21,59	6,36	23,22	6,40
C-SCN603H8H	30	13,21	5,02	16,23	5,09	18,59	5,12	24,49	5,16	29,35	5,16	32,93	5,16	36,96	5,14	40,13	5,12
	40	11,38	6,14	13,98	6,23	16,00	6,27	21,07	6,33	25,23	6,34	28,31	6,34	31,75	6,33	34,47	6,32
	50			12,12	7,57	13,87	7,63	18,25	7,71	21,85	7,74	24,50	7,75	27,47	7,75	29,82	7,74
C-SCN603H8K	30	13,21	5,02	16,23	5,09	18,59	5,12	24,49	5,16	29,35	5,16	32,93	5,16	36,96	5,14	40,13	5,12
	40	11,38	6,14	13,98	6,23	16,00	6,27	21,07	6,33	25,23	6,34	28,31	6,34	31,75	6,33	34,47	6,32
	50			12,12	7,57	13,87	7,63	18,25	7,71	21,85	7,74	24,50	7,75	27,47	7,75	29,82	7,74
C-SCN753H8K	30	16,24	6,07	19,88	6,20	22,72	6,26	29,79	6,33	35,59	6,32	39,86	6,30	44,64	6,27	48,40	6,23
	40	14,10	7,36	17,24	7,51	19,68	7,58	25,76	7,68	30,74	7,70	34,40	7,70	38,50	7,69	41,72	7,67
	50			15,05	9,03	17,16	9,12	22,43	9,26	26,74	9,32	29,90	9,35	33,44	9,37	36,22	9,38
C-SCN903H8H	35	19,69	6,93	24,03	7,12	27,41	7,22	35,89	7,35	42,68	7,38	47,72	7,38	53,36	7,36	57,79	7,33
	45	16,75	8,72	20,45	8,88	23,33	8,97	30,50	9,10	36,36	9,14	40,66	9,15	45,48	9,16	49,26	9,15
	54,4			17,53	11,02	20,01	11,08	26,16	11,20	31,20	11,26	34,90	11,30	39,04	11,33	42,29	11,36
C-SCN903H8K	30	19,69	6,93	24,03	7,12	27,41	7,22	35,81	7,35	42,68	7,38	47,72	7,38	53,36	7,36	57,79	7,33
	40	16,75	8,72	20,45	8,88	23,33	8,97	30,50	9,10	36,36	9,14	40,66	9,15	45,48	9,16	49,26	9,15
	50			17,53	11,02	20,01	11,08	26,16	11,20	31,20	11,26	34,90	11,30	39,04	11,33	42,29	11,36

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Scroll Sanyo / Panasonic

R410A, 400 V

Voltage: 380 - 420 V / 50Hz

Code	Type	Phase	Displ. [cm <sup>3</sup> ]	Cooling capacity [kW]		Diameters [mm]			Weight [kg]
				R410A		length	width	height	
47-32C-SBN233H8E	standard	3	35,00	8,60		-	-	-	-
47-32C-SBN261H5D	standard	1	37,50	9,15		238,2	238,2	451,4	39,0
47-32C-SBN263H8D	standard	3	37,50	8,85		238,2	238,2	451,4	38,0
47-32C-SBP120H38B	standard	3	39,30	10,00		238,2	238,2	420,7	39,0
47-32C-SBP140H38B	standard	3	46,35	11,60		190,5	238,2	451,4	39,0
47-32C-SBP170H38B	standard	3	55,70	14,20		238,2	238,2	451,4	40,0
47-32C-SBP205H38B	standard	3	66,80	16,80		238,2	238,2	420,7	40,0
47-32C-SBP235H38B	standard	3	76,00	19,90		238,2	238,2	451,4	40,0
47-32C-SBP120H15A	standard	1	39,9	9,80		238,2	238,2	451,4	40,0
47-32C-SBP205H38B	standard	3	66,8	16,90		238,2	238,2	451,4	40,0
47-32C-SCP315H38B	tandem	3	104,1	26,00		249,0	249,0	553,0	69,0

Type	Cond. tem. [°C]	Evaporating temperature [°C], cooling capacity [kW] superheat 11,1 [K], subcooling 8,3 [K]															
		-15,0		-10,0		-6,7		0		4,0		7,2		10,0		12,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
C-SBN261H5D	35	4,50	2,48	5,54	2,51	6,35	2,53	8,37	2,57	10,05	2,59	11,28	2,61	12,67	2,63	13,76	2,64
	45	4,14	2,96	5,07	3,00	5,79	3,02	7,58	3,07	9,05	3,10	10,13	3,12	11,34	3,15	12,29	3,16
	54,4	-	-	4,66	3,55	5,31	3,58	6,90	3,64	8,20	3,68	9,15	3,70	10,21	3,72	11,04	3,74
C-SBN263H8D	35	4,75	2,39	5,82	2,40	6,66	2,40	8,76	2,38	10,48	2,34	11,75	2,32	13,17	2,28	14,29	2,26
	45	4,12	2,96	5,05	2,97	5,78	2,96	7,59	2,93	9,07	2,90	10,17	2,87	11,39	2,83	12,36	2,80
	54,4	-	-	4,41	3,67	5,04	3,66	6,61	3,62	7,90	3,58	8,85	3,55	9,91	3,52	10,75	3,49
C-SBP120H38B	35	5,62	2,29	6,84	2,29	7,79	2,29	10,15	2,28	12,08	2,26	13,49	2,24	15,07	2,22	16,31	2,20
	45	4,84	2,87	5,89	2,86	6,71	2,85	8,73	2,83	10,37	2,80	11,57	2,79	12,92	2,77	13,97	2,75
	54,4	-	-	5,11	3,55	5,81	3,53	7,55	3,49	8,97	3,46	10,00	3,45	11,15	3,44	12,06	3,43
C-SBP140H38B	35	6,65	2,48	8,05	2,52	9,14	2,54	11,80	2,55	13,96	2,55	15,54	2,54	17,30	2,53	18,67	2,52
	45	5,69	3,14	6,90	3,16	7,83	3,17	10,14	3,17	12,01	3,16	13,38	3,16	14,90	3,14	16,10	3,13
	54,4	-	-	5,95	3,95	6,77	3,94	8,77	3,93	10,41	3,91	11,60	3,90	12,93	3,89	13,97	3,88
C-SBP170H38B	35	8,29	3,09	10,01	3,09	11,34	3,08	14,62	3,06	17,27	3,04	19,20	3,03	21,35	3,01	23,03	3,00
	45	7,08	3,91	8,56	3,89	9,70	3,88	12,51	3,84	14,79	3,82	16,45	3,80	18,30	3,78	19,75	3,77
	54,4	-	-	7,37	4,88	8,35	4,85	10,79	4,80	12,76	4,77	14,20	4,75	15,80	4,73	17,05	4,72
C-SBP205H38B	35	9,63	3,55	11,68	3,60	13,26	3,62	17,16	3,64	20,33	3,63	22,65	3,62	25,23	3,60	27,25	3,59
	45	8,41	4,47	10,16	4,50	11,50	4,52	14,81	4,53	17,49	4,52	19,43	4,51	21,60	4,50	23,29	4,48
	54,4	-	-	8,89	5,62	10,05	5,62	12,87	5,62	15,15	5,61	16,80	5,60	18,63	5,59	18,36	5,58
C-SBP235H38B	35	11,97	4,16	14,35	4,20	16,18	4,23	20,63	4,29	24,20	4,33	26,78	4,36	29,65	4,38	31,88	4,40
	45	10,28	5,22	12,32	5,24	13,89	5,26	17,71	5,31	20,78	5,35	23,00	5,38	25,46	5,41	27,38	5,43
	54,4	-	-	10,66	6,50	12,01	6,51	15,32	6,54	17,98	6,57	19,90	6,60	22,03	6,63	23,69	6,66
C-SCP315H38B	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	45	-	-	16,14	7,17	18,06	7,10	22,68	6,99	26,34	6,96	28,97	6,95	31,86	6,95	34,1	6,95
	54,4	-	-	14,71	8,40	16,41	8,46	20,48	8,56	23,70	8,59	26,00	8,60	28,53	8,60	30,48	8,59

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Scroll Sanyo / Panasonic

R404A, LBP, 400 V

Voltage: 380 - 420 V / 50Hz

Code	Type	Phase	Displ. [cm <sup>3</sup> ]	Cooling capacity [kW]	Diameters [mm]			Weight [kg]
				R404A	length	width	height	
47-32C-SCN303L8A	standard	3	66,8	3,31	-	-	-	-
47-32C-SCN373L8A	standard	3	83,2	4,25	-	-	-	-
47-32C-SCN453L8H	standard	3	104,0	5,14	249	249	528	69,5
47-32C-SCN523L8H	standard	3	120,0	5,69	249	249	533	69,5
47-32C-SCN603L8H	standard	3	137,0	6,42	249	249	528	69,5
47-32C-SCN753L8H	standard	3	171,2	7,81	249	249	543,5	69,5

Type	Cond. tem. [°C]	Evaporating temperature [°C], cooling capacity [kW] superheat 11,1 [K], subcooling 8,3 [K]													
		-45,0		-40,0		-30,0		-20,0		-15,0		-10,0		-5,0	
	t <sub>o</sub>	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
47-32C-SCN453L8H	35	3,52	3,45	4,20	3,65	5,98	4,01	8,53	4,33	10,18	4,48	12,15	4,61	14,51	4,74
	45	3,03	4,14	3,62	4,37	5,16	4,78	7,35	5,15	8,78	5,32	10,48	5,48	12,52	5,62
	54,4	-	-	3,14	5,17	4,48	5,64	6,39	6,06	7,63	6,26	9,12	6,44	10,89	6,61
47-32C-SCN523L8H	35	3,99	3,98	4,79	4,16	6,88	4,50	9,88	4,84	11,84	5,00	14,20	5,16	17,20	5,32
	45	3,16	4,79	3,83	4,97	5,65	5,35	8,33	5,73	10,12	5,92	12,29	6,12	14,92	6,31
	54,4	-	-	3,11	5,89	4,70	6,29	7,10	6,72	8,72	6,95	10,72	7,18	13,18	7,42
47-32C-SCN603L8H	35	3,91	4,50	4,74	4,74	6,98	5,17	10,27	5,56	12,47	5,73	15,12	5,90	18,35	6,04
	45	3,33	5,31	4,06	5,59	6,03	6,10	8,95	6,57	10,91	6,79	13,29	7,00	16,19	7,20
	54,4	-	-	3,51	6,53	5,25	7,14	7,86	7,71	9,62	7,98	11,76	8,24	14,39	8,49
47-32C-SCN753L8H	35	4,96	5,53	6,09	5,80	9,17	6,29	13,80	6,74	16,94	6,95	20,78	7,15	25,50	7,34
	45	4,02	6,88	4,97	7,80	7,61	7,52	11,65	8,00	14,42	8,25	17,84	8,52	22,08	8,80
	54,4	-	-	4,10	8,57	6,38	8,90	9,93	9,40	12,39	9,71	15,45	10,06	19,27	10,46

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

### Compressors and condensing units Tecumseh / L'Unité

### General

Compressors EN 12900	Internal applications	LBP	HBP/MHBP	AC
T° Evaporating temperature	- 25 °C	- 35 °C	- 10 °C	+ 5 °C
T° Condensing temperature	+ 55 °C	+ 40 °C	+ 45 °C	+ 50 °C
T° Gas return temperature	+ 32°C	+ 20 °C	+ 20 °C	+ 10 °C
Subcooling	OK	OK	OK	OK

Condensing units EN 13215	Internal applications	LBP	HBP/MHBP
T° Evaporating temperature	- 25	- 35	- 10
T° Ambient temperature	+ 32	+ 32	+ 32
T° Gas return temperature	+ 32	+ 20	+ 20
Subcooling	3K	3K	3K

## Explanation of the model name description

T	AJ	N	T	4	5	19	Z	H	R
									No letter = with valves Letter "R" = unit with tank
									H = High suction pressure (-15 °C to +15 °C) B = Low suction pressure (-40 °C to -10 °C) M = Medium suction pressure (-25 °C to +15 °C)
									A,B,C or D = Refrigerant R-12 C = Refrigerant R-407C (Air conditions) E,F,G or H = Refrigerant R-22 M = Refrigerant R-600a T = Refrigerant R-22 ou R-502 U = Refrigerant R-290 W = Refrigerant R-407C / R-22 Y = Refrigerant R-134a Z = Refrigerant R-404A or R-407B or R-507
									Corresponds to the first figures of the cooling capacity. Cooling capacity expressed in BTU/h at 60Hz as per the conditions. Example: 10 preceded by 5 means: 19 000 BTU/h
									Number of figures making up the cooling power. Example: 19 000 btu/h
									Application 1 = Low evaporation pressure. Motor with normal starting torque. 2 = Low evaporation pressure. Motor with high starting torque. 3 = High evaporation pressure. Motor with normal starting torque. 4 = High evaporation pressure. Motor with high starting torque. 5 = Air conditioning. 9 = Medium and high evaporation pressure. Motor with high starting torque. 0 = Medium and high evaporation pressure. Motor with normal starting torque.
									Condensing units T = for standard models - HTA (+46°C) S = for single fan
									Condensing units Letter N = New model AJ Compressors Letter P designates compressors designed to be mounted in parallel Letter D designates compressors or condensing units intended for dual operation Letter TR designates compressors intended for trial operation Letter V designates compressors intended for mobile application
									Families : THB - AEZ - AE - AJ - FH - AG - HGA - RGA - RK - VS
									No letter = Single-phase low torque C = Single-phase hight torque T = Three-phase

**Compressors  
Tecumseh / L'Unite**

R404A, HBP, 230 V

Voltage: 220 - 240 V / 50 Hz



Code	Displ. [cm <sup>3</sup> ]	Diameters			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32AE4430Z	5,16	160	251	200	1/4"	3/16"	10,18
47-32AE4440Z	6,69	160	251	206	3/8"	1/4"	11,3
47-32AE4450Z	8,85	160	251	206	3/8"	1/4"	10,8
47-32AE4460Z	10,33	160	251	206	3/8"	1/4"	11,6
47-32AE4470Z	12,01	160	251	206	3/8"	1/4"	12,4
47-32CAE4470Z	13,30	155	245	215	3/8"	1/4"	13,4
47-32CAE9470Z	13,30	155	245	215	3/8"	1/4"	13,7
47-32CAJ9480Z	15,20	195	235	271	1/2"	5/16"	22
47-32CAJ9510Z	18,30	196	235	282	5/8"	5/16"	21,1
47-32CAJ9513Z	24,20	195	235	282	5/8"	5/16"	23
47-32CAJ4517Z	25,95	201	235	282	5/8"	3/8"	23
47-32CAJ4519Z	34,50	201	235	282	5/8"	3/8"	24
47-32CAJ4519Z-PAJ	34,50	201	235	282	5/8"	3/8"	24
47-32FH4522Z	39,90	200	246	354	5/8"	1/2"	32
47-32FH4524Z	43,50	200	246	354	5/8"	1/2"	34,2

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W], EN 12900								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
AE4430Z	30	Q <sub>o</sub>	252	326	414	519	644	789	959	1154	1377
		P	192	208	222	234	242	248	251	251	247
	40	Q <sub>o</sub>	-	276	354	445	550	673	816	980	1167
		P	-	219	239	256	270	282	291	297	300
	50	Q <sub>o</sub>	-	-	285	361	447	547	661	793	945
		P	-	-	252	276	297	315	331	344	354
AE4440Z	30	Q <sub>o</sub>	347	450	572	715	884	1079	1305	1564	1858
		P	275	294	310	325	336	345	350	351	348
	40	Q <sub>o</sub>	-	363	469	592	734	899	1090	1308	1556
		P	-	309	331	352	370	386	399	409	415
	50	Q <sub>o</sub>	-	-	368	470	587	722	876	1054	1257
		P	-	-	346	372	397	420	441	458	473
AE4450Z	30	Q <sub>o</sub>	472	605	762	946	1160	1409	1694	2021	2391
		P	300	333	361	384	402	417	428	436	441
	40	Q <sub>o</sub>	-	501	639	797	978	1187	1425	1697	2006
		P	-	354	393	426	456	480	501	518	532
	50	Q <sub>o</sub>	-	-	510	642	791	959	1151	1369	1617
		P	-	-	417	463	504	541	573	601	626

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W], EN 12900								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
AE4460Z	30	Q <sub>o</sub>	606	755	930	1135	1374	1651	1970	2334	2747
		P	371	398	426	453	479	503	524	543	553
	40	Q <sub>o</sub>	-	633	787	964	1168	1403	1673	1981	2331
		P	-	432	466	500	534	568	600	630	657
	50	Q <sub>o</sub>	-	-	636	784	952	1144	1363	1614	1900
		P	-	-	507	548	590	633	675	716	756
AE4470Z	30	Q <sub>o</sub>	701	881	1088	1325	1599	1913	2272	2681	3145
		P	458	491	521	549	574	597	619	640	660
	40	Q <sub>o</sub>	-	741	926	1134	1370	1638	1943	2291	2685
		P	-	520	560	597	631	663	693	721	748
	50	Q <sub>o</sub>	-	-	759	934	1129	1349	1598	1881	2203
		P	-	-	593	641	686	728	767	805	841
CAE4470Z	30	Q <sub>o</sub>	629	818	1041	1303	1610	1966	2376	2844	3377
		P	493	533	568	599	630	660	693	729	771
	40	Q <sub>o</sub>	-	664	861	1088	1350	1653	2002	2400	2853
		P	-	553	601	644	682	718	754	792	832
	50	Q <sub>o</sub>	-	-	674	864	1081	1329	1613	1939	2311
		P	-	-	621	680	732	779	824	868	913
CAE9470Z	30	Q <sub>o</sub>	666	852	1075	1340	1651	2013	2429	2904	3443
		P	431	471	508	543	577	612	648	687	731
	40	Q <sub>o</sub>	537	702	894	1119	1381	1684	2033	2431	2884
		P	445	496	543	587	628	668	709	751	795
	50	Q <sub>o</sub>	-	549	711	897	1110	1356	1637	1960	2327
		P	-	510	572	629	681	732	781	830	880
CAJ9480Z	30	Q <sub>o</sub>	773	992	1254	1563	1925	2346	2833	3391	4025
		P	485	533	577	616	649	675	695	706	710
	40	Q <sub>o</sub>	609	805	1032	1294	1598	1950	2355	2820	3350
		P	496	558	616	669	718	762	798	828	850
	50	Q <sub>o</sub>	-	615	807	1024	1271	1554	1879	2251	2678
		P	-	569	642	712	778	839	894	943	986
CAJ9510Z	30	Q <sub>o</sub>	964	1234	1555	1935	2380	2898	3496	4182	4962
		P	583	642	698	748	793	832	864	888	903
	40	Q <sub>o</sub>	771	1013	1292	1616	1991	2426	2927	3501	4156
		P	601	676	748	816	879	937	989	1035	1072
	50	Q <sub>o</sub>	-	785	1022	1289	1594	1945	2348	2811	3340
		P	-	695	784	870	953	1031	1104	1172	1232
CAJ9513Z	30	Q <sub>o</sub>	1171	1542	1984	2505	3113	3815	4619	5531	6560
		P	654	736	809	876	937	992	1043	1088	1131
	40	Q <sub>o</sub>	900	1228	1610	2053	2563	3149	3818	4577	5435
		P	662	768	865	955	1037	1112	1181	1244	1302
	50	Q <sub>o</sub>	-	908	1233	1600	2016	2489	3027	3637	4326
		P	-	772	900	1019	1129	1231	1325	1413	1494

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W], EN 12900								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
CAJ4517Z	30	Q <sub>o</sub>	1393	1782	2241	2779	3406	4133	4968	5923	7007
		P	762	840	912	980	1047	1114	1185	1261	1344
	40	Q <sub>o</sub>	-	1448	1848	2308	2839	3449	4150	4950	5860
		P	-	893	990	1080	1166	1251	1336	1425	1518
	50	Q <sub>o</sub>	-	-	1448	1830	2263	2757	3322	3967	4703
		P	-	-	1040	1158	1270	1378	1485	1592	1702
CAJ4519Z	30	Q <sub>o</sub>	1745	2276	2889	3596	4412	5349	6419	7637	9015
		P	1116	1219	1321	1422	1522	1624	1728	1835	1947
	40	Q <sub>o</sub>	-	1843	2390	3008	3710	4510	5420	6453	7623
		P	-	1291	1418	1540	1661	1779	1898	2017	2138
	50	Q <sub>o</sub>	-	-	1866	2386	2966	3619	4360	5200	6152
		P	-	-	1486	1643	1795	1942	2087	2230	2372
FH4522Z	30	Q <sub>o</sub>	1657	2246	2944	3766	4725	5838	7120	8584	10246
		P	1013	1163	1297	1419	1531	1637	1740	1843	1949
	40	Q <sub>o</sub>	-	1715	2323	3027	3840	4780	5859	7094	8499
		P	-	1161	1340	1500	1646	1780	1905	2024	2141
	50	Q <sub>o</sub>	-	-	1718	2303	2970	3734	4611	5615	6761
		P	-	-	1328	1544	1740	1918	2082	2234	2379
FH4524Z	30	Q <sub>o</sub>	1843	2514	3290	4185	5217	6402	7756	9297	11040
		P	1174	1335	1478	1608	1727	1839	1947	2054	2164
	40	Q <sub>o</sub>	-	1944	2344	3437	4338	5364	6532	7858	9358
		P	-	1347	1535	1707	1865	2012	2152	2289	2425
	50	Q <sub>o</sub>	-	-	1964	2639	3395	4249	5216	6313	7557
		P	-	-	1541	1762	1966	2156	2337	2510	2680

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Tecumseh / L'Unite

R404A, HBP, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32TAJ4517Z	25,95	201	235	82	5/8"	3/8"	20,7
47-32TAJ4517Z-PAJ	25,95	201	235	82	5/8"	3/8"	20,7
47-32TAJ4519Z	34,45	201	235	282	5/8"	3/8"	23
47-32TAJ4519Z-PAJ	34,45	201	235	282	5/8"	3/8"	23
47-32TFH4522Z	39,90	200	246	354	5/8"	1/2"	30
47-32TFH4524Z	43,50	200	246	354	5/8"	1/2"	30,4
47-32TFH4531Z	56,60	200	246	354	7/8"	1/2"	31,2
47-32TFH4540Z	74,20	200	246	370	7/8"	1/2"	33
47-32TAG4546Z	90,20	224	261	368	7/8"	5/8"	44
47-32TAGP4546Z	90,20	224	261	368	7/8"	5/8"	44



Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32TAG4553Z	100,70	224	261	381	7/8"	5/8"	45,6
47-32TAG4561Z	112,50	224	261	381	1" 1/8	5/8"	46
47-32TAGP4561Z	112,50	224	261	381	1" 1/8	5/8"	46
47-32TAG4568Z	124,40	224	261	393	1" 1/8	5/8"	47,2
47-32TAGP4568Z	124,40	224	261	393	1" 1/8	5/8"	47,2
47-32TAG4573Z	134,80	224	261	393	1" 1/8	5/8"	48
47-32TAGP4573Z	134,80	224	261	393	1" 1/8	5/8"	48
47-32TAG4581Z	145,00	224	261	393	1" 1/8	5/8"	48,1

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAJ4517Z	30	Q <sub>o</sub>	1332	1754	2237	2793	3431	4162	4997	5945	7017
		P	792	884	965	1040	1108	1174	1238	1304	1373
	40	Q <sub>o</sub>	-	1386	1821	2309	2861	3487	4199	5005	5917
		P	-	928	1038	1138	1230	1315	1396	1476	1556
	50	Q <sub>o</sub>	-	-	1389	1805	2266	2783	3366	4026	4773
		P	-	-	1087	1221	1343	1456	1562	1663	1762
TAJ4517Z-PAJ	30	Q <sub>o</sub>	1332	1754	2237	2793	3431	4162	4997	5945	7017
		P	792	884	965	1040	1108	1174	1238	1304	1373
	40	Q <sub>o</sub>	-	1386	1821	2309	2861	3487	4199	5005	5917
		P	-	928	1038	1138	1230	1315	1396	1476	1556
	50	Q <sub>o</sub>	-	-	1389	1805	2266	2783	3366	4026	4773
		P	-	-	1087	1221	1343	1456	1562	1663	1762
TAJ4519Z	30	Q <sub>o</sub>	1764	2268	2853	3530	4312	5209	6234	7398	8713
		P	1003	1122	1238	1350	1459	1565	1668	1769	1867
	40	Q <sub>o</sub>	-	1849	2369	2958	3626	4385	5248	6225	7328
		P	-	1199	1334	1466	1592	1715	1834	1949	2061
	50	Q <sub>o</sub>	-	-	1864	2366	2922	3545	4246	5038	5931
		P	-	-	1412	1575	1732	1884	2030	2172	2309
TAJ4519Z-PAJ	30	Q <sub>o</sub>	1764	2268	2853	3530	4312	5209	6234	7398	8713
		P	1003	1122	1238	1350	1459	1565	1668	1769	1867
	40	Q <sub>o</sub>	-	1849	2369	2958	3626	4385	5248	6225	7328
		P	-	1199	1334	1466	1592	1715	1834	1949	2061
	50	Q <sub>o</sub>	-	-	1864	2366	2922	3545	4246	5038	5931
		P	-	-	1412	1575	1732	1884	2030	2172	2309
TFH4522Z	30	Q <sub>o</sub>	1555	2147	2849	3677	4644	5767	7062	8542	10224
		P	1013	1167	1301	1418	1524	1623	1719	1816	1919
	40	Q <sub>o</sub>	-	1636	2261	2983	3817	4778	5882	7144	8579
		P	-	1173	1356	1516	1659	1787	1907	2022	2136
	50	Q <sub>o</sub>	-	-	1636	2243	2934	3724	4629	5663	6842
		P	-	-	1338	1554	1746	1917	2074	2219	2357

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

**Technical parameters**  
**Tecumseh / L'Unité**

R404A, HBP, 400 V

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TFH4524Z	30	Q <sub>o</sub>	1837	2506	3292	4203	5248	6435	7772	9268	10932
		P	1140	1308	1455	1584	1697	1797	1888	1971	2049
	40	Q <sub>o</sub>	-	1935	2640	3443	4353	5378	6526	7807	9228
		P	-	1329	1528	1705	1862	2002	2128	2242	2347
	50	Q <sub>o</sub>	-	-	1948	2642	3415	4277	5236	6300	7477
		P	-	-	1531	1764	1972	2159	2328	2481	2620
TFH4531Z	30	Q <sub>o</sub>	2540	3378	4336	5437	6699	8144	9792	11665	13782
		P	1440	1639	1822	1993	2155	2313	2472	2636	2808
	40	Q <sub>o</sub>	-	2619	3491	4469	5574	6826	8245	9853	11670
		P	-	1653	1891	2112	2322	2524	2722	2922	3126
	50	Q <sub>o</sub>	-	-	2613	3460	4398	5448	6629	7964	9471
		P	-	-	1892	2171	2435	2686	2931	3172	3414
TFH4540Z	30	Q <sub>o</sub>	3345	4390	5591	6975	8566	10389	12471	14835	17508
		P	1957	2199	2437	2678	2931	3205	3508	3848	4235
	40	Q <sub>o</sub>	-	3489	4570	5784	7157	8715	10482	12484	14746
		P	-	2275	2555	2830	3107	3396	3704	4041	4415
	50	Q <sub>o</sub>	-	-	3507	4551	5707	6998	8451	10090	11942
		P	-	-	2622	2940	3251	3565	3888	4231	4601
TAG4546Z	30	Q <sub>o</sub>	3296	4578	6126	7972	10149	12690	15628	18995	22823
		P	1863	2196	2500	2781	3042	3288	3525	3757	3988
	40	Q <sub>o</sub>	-	3394	4721	6287	8125	10267	12746	15595	18846
		P	-	2168	2558	2916	3247	3555	3846	4124	4394
	50	Q <sub>o</sub>	-	-	3370	4646	6134	7867	9878	12198	14861
		P	-	-	2497	2951	3371	3761	4125	4469	4797
TAGP4546Z	30	Q <sub>o</sub>	3296	4578	6126	7972	10149	12690	15628	18995	22823
		P	1863	2196	2500	2781	3042	3288	3525	3757	3988
	40	Q <sub>o</sub>	-	3394	4721	6287	8125	10267	12746	15595	18846
		P	-	2168	2558	2916	3247	3555	3846	4124	4394
	50	Q <sub>o</sub>	-	-	3370	4646	6134	7867	9878	12198	14861
		P	-	-	2497	2951	3371	3761	4125	4469	4797
TAG4553Z	30	Q <sub>o</sub>	3793	5224	6947	9005	11443	14304	17630	21467	25856
		P	2111	2490	2837	2155	3450	3726	3988	4240	4486
	40	Q <sub>o</sub>	-	3915	5403	7143	9180	11556	14315	17501	21157
		P	-	2455	2904	3317	3701	4058	4394	4714	5021
	50	Q <sub>o</sub>	-	-	3868	5306	6957	8865	11073	13625	16563
		P	-	-	2825	3355	3847	4306	4737	5144	5532
TAG4561Z	30	Q <sub>o</sub>	4437	5990	7847	10057	12669	15732	19295	23405	28113
		P	2391	2781	2154	3525	3911	4324	4782	5300	5891
	40	Q <sub>o</sub>	-	4594	6210	8083	10261	12793	15728	19115	23001
		P	-	2813	3276	3717	4153	4597	5064	5572	6133
	50	Q <sub>o</sub>	-	-	4560	6133	7914	9953	12297	14997	18100
		P	-	-	3269	3817	4338	4848	5362	5896	6464

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAGP4561Z	30	Q <sub>o</sub>	4437	5990	7847	10057	12669	15732	19295	23405	28113
		P	2391	2781	2154	3525	3911	4324	4782	5300	5891
	40	Q <sub>o</sub>	-	4594	6210	8083	10261	12793	15728	19115	23001
		P	-	2813	3276	3717	4153	4597	5064	5572	6133
	50	Q <sub>o</sub>	-	-	4560	6133	7914	9953	12297	14997	18100
		P	-	-	3269	3817	4338	4848	5362	5896	6464
TAG4568Z	30	Q <sub>o</sub>	5428	7159	9193	11574	14348	17558	21248	25463	30248
		P	2748	3147	3523	3895	4284	4707	5186	5739	6385
	40	Q <sub>o</sub>	-	5606	7425	9519	11931	14705	17887	21520	25649
		P	-	3205	3686	4135	4573	5018	5491	6011	6597
	50	Q <sub>o</sub>	-	-	5639	7429	9463	11787	14444	17478	20935
		P	-	-	3742	4325	4868	5392	5916	6459	7041
TAG4573Z	30	Q <sub>o</sub>	5894	7716	9878	12427	15413	18882	22883	27462	32667
		P	3020	3477	3935	4393	4850	5306	5759	6207	6651
	40	Q <sub>o</sub>	-	6163	8071	10288	12861	15837	19265	23192	27667
		P	-	3563	4104	4650	5200	5752	6306	6861	7415
	50	Q <sub>o</sub>	-	-	6155	8000	10122	12567	15385	18622	22327
		P	-	-	4134	4766	5406	6053	6706	7364	8027
TAG4581Z	30	Q <sub>o</sub>	6540	8504	10797	13470	16568	20141	24237	28904	34190
		P	3573	4078	4549	5003	5454	5919	6413	6954	7556
	40	Q <sub>o</sub>	-	6881	8931	11267	13937	16989	20471	24431	28918
		P	-	4186	4779	5334	5867	6393	6929	7491	8094
	50	Q <sub>o</sub>	-	-	6966	8957	11189	13710	16569	19814	23492
		P	-	-	4867	5558	6206	6828	7439	8056	8694

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Tecumseh / L'Unite

R404A, LBP, 230 V

Voltage: 220-240 V / 50 Hz

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32AE2410Z	5,02	160	251	206	1/4"	3/16"	10,3
47-32AE2415Z	7,33	160	251	206	1/4"	3/16"	11
47-32AE2420Z	9,35	160	251	206	3/8"	1/4"	11,5
47-32AE2425Z	12,01	160	251	206	3/8"	1/4"	11,7
47-32CAJ2428Z	15,2	165	235	271	1/2"	1/4"	20,1
47-32CAJ2432Z	18,3	165	235	271	1/2"	5/16"	21,5
47-32CAJ2440Z	21	165	235	271	1/2"	5/16"	21,9
47-32CAJ2446Z	26,2	165	235	282	1/2"	5/16"	23
47-32CAJ2464Z	34,5	165	235	282	5/8"	3/8"	23,7
47-32FH2480Z	53,2	190	246	370	5/8"	1/2"	37

**Technical parameters**  
**Tecumseh / L'Unité**

R404A, LBP, 230 V

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]						
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
AE2410Z	30	Q <sub>o</sub>	103	148	203	267	342	429	529
		P	137	153	169	185	199	213	226
	40	Q <sub>o</sub>	79	120	168	225	291	368	456
		P	137	156	175	195	214	233	252
	50	Q <sub>o</sub>	-	89	130	177	232	297	370
		P	-	154	177	201	225	250	274
AE2415Z	30	Q <sub>o</sub>	167	228	302	390	496	619	763
		P	187	211	234	257	280	303	327
	40	Q <sub>o</sub>	134	188	252	329	420	526	651
		P	189	216	244	271	299	327	356
	50	Q <sub>o</sub>	-	147	201	265	341	430	535
		P	-	217	249	281	314	348	382
AE2420Z	30	Q <sub>o</sub>	224	305	404	522	661	824	1012
		P	214	246	279	312	345	378	411
	40	Q <sub>o</sub>	175	246	332	434	555	695	858
		P	215	252	291	331	372	414	456
	50	Q <sub>o</sub>	-	188	260	345	445	563	699
		P	-	253	299	346	395	446	499
AE2425Z	30	Q <sub>o</sub>	296	402	530	680	856	1059	1293
		P	272	311	353	395	437	476	512
	40	Q <sub>o</sub>	234	329	441	572	723	899	1100
		P	281	323	369	419	470	522	572
	50	Q <sub>o</sub>	-	255	351	461	588	734	902
		P	-	334	384	439	498	560	623
CAJ2428Z	30	Q <sub>o</sub>	282	403	553	734	950	1204	1500
		P	325	384	446	508	570	630	685
	40	Q <sub>o</sub>	202	306	434	589	773	991	1246
		P	303	368	441	519	602	686	771
	50	Q <sub>o</sub>	-	210	315	443	595	776	989
		P	-	338	416	504	600	703	812
CAJ2432Z	30	Q <sub>o</sub>	342	496	687	917	1192	1514	1887
		P	360	418	476	536	597	661	729
	40	Q <sub>o</sub>	249	381	542	738	971	1247	1567
		P	347	417	487	560	636	716	801
	50	Q <sub>o</sub>	-	266	398	557	749	976	1243
		P	-	396	478	563	653	748	850
CAJ2440Z	30	Q <sub>o</sub>	422	600	818	1080	1391	1754	2173
		P	436	503	571	641	712	786	863
	40	Q <sub>o</sub>	311	463	647	870	1135	1446	1807
		P	420	499	581	665	752	844	941
	50	Q <sub>o</sub>	-	337	489	673	892	1151	1453
		P	-	481	576	675	778	888	1004

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]						
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
CAJ2446Z	30	Q <sub>o</sub>	572	798	1067	1385	1756	2184	2674
		P	516	602	688	772	856	939	1022
	40	Q <sub>o</sub>	429	627	859	1133	1451	1819	2241
		P	501	604	707	810	915	1020	1128
	50	Q <sub>o</sub>	-	457	651	878	1141	1447	1799
		P	-	587	708	831	956	1085	1217
CAJ2464Z	30	Q <sub>o</sub>	760	1036	1371	1772	2243	2792	3425
		P	700	815	923	1030	1141	1260	1391
	40	Q <sub>o</sub>	589	828	1116	1459	1864	2336	2882
		P	684	821	954	1087	1225	1373	1536
	50	Q <sub>o</sub>	-	623	862	1146	1482	1876	2334
		P	-	793	949	1107	1273	1449	1642
FH2480Z	30	Q <sub>o</sub>	998	1457	1994	2618	3339	4166	5108
		P	1061	1253	1446	1641	1840	2044	2253
	40	Q <sub>o</sub>	668	1093	1580	2137	2775	3502	4327
		P	1006	1227	1452	1682	1917	2160	2412
	50	Q <sub>o</sub>	-	708	1137	1621	2169	2789	3491
		P	-	1158	1414	1678	1950	2232	2525

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Tecumseh / L'Unite

### R404A, LBP, 400 V

Tecumseh / L'Unite EN 12900, condensing temperature +40°C, evaporating temperature -35°C, gas return temperature +20°C, subcooling 0K, Voltage: 380 - 420 V / 50 Hz

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32TAJ2446Z	26,2	165	235	282	1/2"	5/16"	22,5
47-32TAJ2464Z	34,5	165	235	282	5/8"	3/8"	22,5
47-32TFH2480Z	53,2	200	246	354	5/8"	1/2"	32,9
47-32TFH2511Z	74,2	200	246	354	5/8"	1/2"	32,6
47-32TAG2513Z	100,7	224	261	368	7/8"	5/8"	44
47-32TAG2516Z	112,5	224	261	368	7/8"	5/8"	45
47-32TAG2522Z	134,8	224	261	393	1" 1/8	5/8"	47
47-32TAG2525Z	145	224	261	393	1" 1/8	5/8"	46

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]						
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
TAJ2446Z	30	Q <sub>o</sub>	551	770	1033	1345	1712	2138	2626
		P	485	579	672	763	851	937	1018
	40	Q <sub>o</sub>	410	597	821	1086	1397	1759	2176
		P	470	581	692	803	913	1021	1128
	50	Q <sub>o</sub>	-	434	620	838	1094	1393	1740
		P	-	562	693	825	957	1090	1222

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]						
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
TAJ2464Z	30	Q <sub>o</sub>	752	1030	1365	1765	2234	2780	3408
		P	650	770	892	1015	1141	1270	1405
	40	Q <sub>o</sub>	578	820	1108	1449	1850	2317	2855
		P	636	778	920	1066	1215	1369	1529
	50	Q <sub>o</sub>	-	612	852	1135	1467	1854	2302
		P	-	763	930	1100	1274	1455	1642
TFH2480Z	30	Q <sub>o</sub>	1054	1502	2017	2606	3275	4028	4871
		P	948	1163	1374	1581	1787	1994	2202
	40	Q <sub>o</sub>	719	1125	1587	2111	2701	3364	4105
		P	850	1102	1345	1582	1814	2043	2270
	50	Q <sub>o</sub>	-	757	1165	1622	2134	2706	3344
		P	-	1002	1297	1583	1860	2130	2395
TFH2511Z	30	Q <sub>o</sub>	1379	1999	2756	3663	4732	5976	7407
		P	1193	1443	1708	1992	2300	2637	3009
	40	Q <sub>o</sub>	971	1490	2124	2887	3791	4849	6073
		P	1116	1388	1675	1980	2310	2668	3061
	50	Q <sub>o</sub>	-	1050	1565	2188	2931	3807	4827
		P	-	1319	1637	1974	2334	2724	3147
TAG2513Z	30	Q <sub>o</sub>	1428	2212	3194	4399	5848	7565	9573
		P	1387	1755	2125	2498	2876	3257	3643
	40	Q <sub>o</sub>	872	1534	2358	3367	4585	6035	7740
		P	1213	1631	2057	2492	2937	3392	3858
	50	Q <sub>o</sub>	-	912	1578	2393	3381	4565	5967
		P	-	1414	1896	2393	2905	3433	3978
TAG2516Z	40	Q <sub>o</sub>	-	2691	3624	4848	6363	8168	10263
		P	-	2106	2468	2859	3278	3726	4202
	50	Q <sub>o</sub>	-	-	3010	4207	5668	7392	9380
		P	-	-	2286	2794	3329	3892	4482
	55	Q <sub>o</sub>	-	-	2670	3860	5301	6992	8933
		P	-	-	2196	2763	3356	3976	4623
TAG2522Z	30	Q <sub>o</sub>	2463	3525	4837	6435	8352	10625	13287
		P	2013	2455	2921	3415	3942	4506	5111
	40	Q <sub>o</sub>	1777	2685	3793	5136	6747	8661	10914
		P	1899	2389	2905	3449	4026	4640	5297
	50	Q <sub>o</sub>		1883	2799	3899	5217	6787	8644
		P		2257	2829	3430	4065	4739	5455
TAG2525Z	30	Q <sub>o</sub>	2763	3929	5329	6989	8934	11192	13788
		P	2204	2706	3222	3753	4301	4866	5449
	40	Q <sub>o</sub>	1984	3012	4230	5665	7342	9288	11529
		P	2097	2659	3240	3841	4464	5109	5776
	50	Q <sub>o</sub>		2132	3159	4358	5757	7381	9256
		P		2536	3182	3853	4549	5273	6024

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>c</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Tecumseh / L'Unite

R134a, HBP, 230 V

Voltage: 220-240 V / 50 Hz

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32THB4413Y	3,40	165	232	169	1/4"	3/16"	6,7
47-32THB4415Y	4,00	165	232	169	1/4"	3/16"	7,3
47-32THB4419Y	5,00	165	232	172	1/4"	3/16"	7,4
47-32THB4422Y	5,90	165	232	172	1/4"	3/16"	7,4
47-32AE4425Y	6,69	188	251	200	1/4"	3/16"	9,2
47-32AEZ4425Y	7,60	195	263	186	1/4"	3/16"	9,8
47-32AE4430Y	8,02	188	251	200	1/4"	3/16"	9,7
47-32AEZ4430Y	8,80	195	263	199	1/4"	3/16"	10,2
47-32AE4440Y	10,33	160	247	196	5/16"	1/4"	9,6
47-32CAE4440Y	12,00	195	263	199	5/16"	1/4"	11,4
47-32AE4450Y	13,24	188	251	206	3/8"	1/4"	11,3
47-32CAE4448Y	14,20	195	245	212	3/8"	1/4"	12,6
47-32AE4456Y	14,51	188	251	206	3/8"	1/4"	11,5
47-32CAE4456Y	16,20	195	245	212	3/8"	1/4"	12,7
47-32AE4460Y	15,09	188	251	211	3/8"	1/4"	12,2
47-32CAJ4461Y	18,30	219	235	258	1/2"	1/4"	18,9
47-32CAJ4476Y	21,80	219	235	258	1/2"	1/4"	19,0
47-32CAJ4492Y	25,95	219	235	271	1/2"	5/16"	20,0
47-32CAJ4511Y	32,70	219	235	282	5/8"	5/16"	21,5

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	10,0	15,0
THB4413Y	30	Q <sub>o</sub>	81	108	142	182	230	288	356	435	526
		P	80	87	93	100	105	111	115	118	120
	40	Q <sub>o</sub>	-	92	123	160	204	256	316	387	469
		P	-	90	98	106	114	121	128	133	138
	50	Q <sub>o</sub>	-	-	99	132	171	216	269	331	402
		P	-	-	102	112	122	132	141	149	157
THB4415Y	30	Q <sub>o</sub>	98	132	176	228	290	362	445	539	644
		P	91	99	106	114	122	129	135	139	141
	40	Q <sub>o</sub>	-	114	152	198	251	314	385	466	556
		P	-	103	112	122	132	141	149	156	161
	50	Q <sub>o</sub>	-	-	127	168	214	268	329	398	475
		P	-	-	118	129	141	152	163	173	182
THB4419Y	30	Q <sub>o</sub>	110	150	198	257	326	407	501	609	733
		P	110	120	129	139	150	161	173	187	202
	40	Q <sub>o</sub>	-	126	170	222	283	355	439	535	646
		P	-	125	137	149	161	174	188	203	219
	50	Q <sub>o</sub>	-	-	142	188	241	304	378	462	560
		P	-	-	142	157	172	188	204	221	240

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	10,0	15,0
THB4422Y	30	Q <sub>o</sub>	148	196	255	324	406	500	610	736	879
		P	127	139	152	164	177	191	206	222	239
	40	Q <sub>o</sub>	-	170	223	285	358	443	541	653	782
		P	-	146	161	176	192	209	226	245	266
	50	Q <sub>o</sub>	-	-	189	243	307	380	466	564	676
		P	-	-	168	187	206	226	247	270	294
AE4425Y	30	Q <sub>o</sub>	136	200	275	365	470	593	735	899	1087
		P	135	149	161	172	182	191	199	207	214
	40	Q <sub>o</sub>	-	165	236	317	411	520	645	790	955
		P	-	153	171	186	201	214	227	238	250
	50	Q <sub>o</sub>	-	-	193	265	348	443	552	676	819
		P	-	-	176	197	217	236	254	271	288
AEZ4425Y	40	Q <sub>o</sub>	133	191	266	359	469	597	742	905	1085
		P	123	152	178	202	224	243	260	275	287
	50	Q <sub>o</sub>	-	147	211	290	387	499	628	773	934
		P	-	151	180	207	234	259	284	307	328
	55	Q <sub>o</sub>	-	-	183	256	345	450	571	707	858
		P	-	-	180	210	239	267	295	322	349
AE4430Y	30	Q <sub>o</sub>	206	277	365	472	599	750	925	1129	1362
		P	169	184	199	212	224	233	240	243	242
	40	Q <sub>o</sub>	-	239	318	412	526	659	816	998	1207
		P	-	193	211	230	248	264	278	290	299
	50	Q <sub>o</sub>	-	-	270	352	450	566	702	861	1045
		P	-	-	222	244	267	290	312	332	350
AEZ4430Y	40	Q <sub>o</sub>	223	275	352	453	580	732	908	1110	1336
		P	174	203	230	255	278	300	319	337	352
	50	Q <sub>o</sub>	-	212	278	367	478	612	768	948	1149
		P	-	201	232	262	291	320	348	375	402
	55	Q <sub>o</sub>	-	-	241	323	427	552	698	866	1056
		P	-	-	232	265	297	329	362	395	427
AE4440Y	30	Q <sub>o</sub>	290	380	488	619	775	960	1176	1426	1715
		P	209	231	253	276	298	318	336	351	363
	40	Q <sub>o</sub>	-	332	429	545	684	847	1038	1260	1517
		P	-	241	266	293	321	348	375	399	422
	50	Q <sub>o</sub>	-	-	369	471	591	733	899	1093	1317
		P	-	-	281	312	344	378	412	446	478
CAE4440Y	40	Q <sub>o</sub>	268	340	445	583	754	958	1196	1466	1770
		P	241	270	299	327	354	382	409	436	462
	50	Q <sub>o</sub>	-	263	352	471	621	801	1012	1253	1524
		P	-	269	301	335	370	407	446	486	528
	55	Q <sub>o</sub>	-	-	306	416	555	723	920	1146	1401
		P	-	-	302	339	378	420	464	511	561



Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	10,0	15,0
AE4450Y	30	Q <sub>o</sub>	335	464	615	793	1001	1243	1524	1846	2215
		P	249	279	309	338	365	390	412	430	443
	40	Q <sub>o</sub>	-	390	527	687	872	1087	1336	1623	1952
		P	-	294	330	366	401	434	466	495	520
	50	Q <sub>o</sub>	-	-	445	585	746	933	1149	1399	1686
		P	-	-	349	391	433	475	516	556	593
CAE4448Y	40	Q <sub>o</sub>	393	465	578	734	931	1170	1451	1774	1239
		P	263	310	354	395	433	469	502	532	560
	50	Q <sub>o</sub>	-	360	458	593	767	978	1228	1515	1840
		P	-	307	356	405	452	500	547	593	639
	55	Q <sub>o</sub>	-	-	397	523	685	883	1116	1385	1690
		P	-	-	357	409	462	515	569	624	679
AE4456Y	30	Q <sub>o</sub>	420	554	712	897	1114	1366	1659	1997	2383
		P	275	307	337	367	397	429	464	502	544
	40	Q <sub>o</sub>	-	479	624	792	987	1214	1476	1779	2125
		P	-	329	368	406	443	481	521	563	609
	50	Q <sub>o</sub>	-	-	534	682	854	1052	1282	1547	1853
		P	-	-	394	442	489	535	583	632	684
CAE4456Y	40	Q <sub>o</sub>	436	525	658	835	1057	1323	1634	1989	2388
		P	335	387	435	480	522	560	595	627	655
	50	Q <sub>o</sub>	-	405	520	675	871	1106	1382	1698	2055
		P	-	384	438	492	545	597	648	699	748
	55	Q <sub>o</sub>	-	-	452	596	778	998	1257	1553	1888
		P	-	-	440	498	557	616	675	735	794
AE4460Y	30	Q <sub>o</sub>	431	572	735	926	1149	1409	1711	2058	2457
		P	265	302	334	365	395	427	462	502	548
	40	Q <sub>o</sub>	-	492	646	822	1026	1261	1533	1846	2205
		P	-	315	357	396	433	470	509	552	600
	50	Q <sub>o</sub>	-	-	548	707	889	1098	1338	1614	1931
		P	-	-	373	422	468	514	559	607	659
CAJ4461Y	30	Q <sub>o</sub>	406	554	739	968	1246	1580	1975	2440	2979
		P	304	346	385	422	455	485	511	534	554
	40	Q <sub>o</sub>	-	468	629	827	1067	1356	1699	2103	2575
		P	-	360	410	458	503	545	585	621	655
	50	Q <sub>o</sub>	-	-	519	686	888	1131	1421	1765	2169
		P	-	-	424	484	543	599	653	704	753
CAJ4476Y	30	Q <sub>o</sub>	476	671	903	1178	1502	1882	2322	2830	3411
		P	376	428	474	515	552	587	621	654	689
	40	Q <sub>o</sub>	-	526	738	988	1280	1621	2017	2474	2997
		P	-	425	489	547	600	650	698	744	790
	50	Q <sub>o</sub>	-	-	564	785	1043	1343	1692	2095	2559
		P	-	-	482	561	635	705	770	834	896

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	10,0	15,0
CAJ4492Y	30	Q <sub>o</sub>	592	828	1113	1455	1864	2348	2915	3574	4334
		P	415	479	536	588	636	680	723	764	804
	40	Q <sub>o</sub>	-	664	925	1230	1590	2013	2507	3081	3744
		P	-	483	562	634	701	763	823	880	935
	50	Q <sub>o</sub>	-	-	722	996	1313	1681	2108	2603	3174
		P	-	-	560	657	748	834	915	993	1068
CAJ4511Y	30	Q <sub>o</sub>	815	1116	1474	1899	2399	2985	3665	4448	5343
		P	491	565	632	696	759	826	901	987	1087
	40	Q <sub>o</sub>	-	924	1252	1634	2079	2597	3196	3885	4674
		P	-	575	664	746	825	904	986	1076	1177
	50	Q <sub>o</sub>	-	-	1014	1354	1744	2195	2714	3310	3994
		P	-	-	672	781	883	982	1081	1184	1294

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Tecumseh / L'Unite

R134A, HBP, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connections		Weight [kg]
		width	length	height	suction	discharge	
47-32TAJ4461Y	18,3	219	235	258	1/2"	1/4"	19
47-32TAJ4492Y	25,9	219	235	271	1/2"	5/16"	21
47-32TAJ4511Y	32,7	219	235	282	5/8"	5/16"	20
47-32TFH4518Y	53,2	220	246	354	5/8"	1/2"	30
47-32TFH4525Y	74,25	220	246	354	5/8"	1/2"	31

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAJ4461Y	30	Q <sub>o</sub>	436	590	779	1010	1290	1627	2026	2496	3043
		P	282	320	355	388	419	449	479	508	538
	40	Q <sub>o</sub>	-	494	663	866	1112	1406	1755	2168	2650
		P	-	332	377	420	460	499	538	575	612
	50	Q <sub>o</sub>	-	-	543	719	930	1182	1482	1838	2255
		P	-	-	389	443	495	544	593	640	687
TAJ4492Y	30	Q <sub>o</sub>	529	794	1097	1446	1848	2312	2844	3453	4146
		P	334	390	439	481	519	553	585	614	643
	40	Q <sub>o</sub>	-	615	904	1231	1603	2028	2514	3069	3700
		P	-	396	463	523	576	624	668	709	748
	50	Q <sub>o</sub>	-	-	696	993	1327	1707	2140	2633	3195
		P	-	-	467	548	620	686	746	802	855

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAJ4511Y	30	Q <sub>o</sub>	779	1090	1454	1882	2381	2963	3635	4408	5290
		P	478	548	615	680	743	808	874	945	1020
	40	Q <sub>o</sub>	-	892	1227	1614	2063	2584	3184	3875	4664
		P	-	571	657	739	819	899	979	1062	1149
	50	Q <sub>o</sub>	-	-	992	1332	1724	2177	2699	3301	3991
		P	-	-	681	785	887	986	1085	1185	1288
TFH4518Y	30	Q <sub>o</sub>	930	1392	1953	2629	3436	4390	5507	6803	8293
		P	729	852	974	1093	1204	1305	1391	1459	1506
	40	Q <sub>o</sub>	-	1088	1604	2222	2957	3826	4844	6027	7391
		P	-	851	995	1143	1289	1430	1564	1685	1791
	50	Q <sub>o</sub>	-	-	1231	1778	2429	3200	4106	5164	6390
		P	-	-	986	1156	1332	1508	1683	1852	2012
TFH4525Y	30	Q <sub>o</sub>	1591	2224	2999	3938	5061	6390	7946	9750	11823
		P	953	1101	1261	1429	1600	1770	1934	2088	2227
	40	Q <sub>o</sub>	-	1741	2420	3242	4228	5398	6774	8377	10229
		P	-	1119	1290	1478	1677	1882	2090	2296	2495
	50	Q <sub>o</sub>	-	-	1885	2592	3442	4456	5654	7058	8690
		P	-	-	1309	1507	1725	1957	2200	2448	2698

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>c</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors rotary Tecumseh / L'Unite

R404A, HBP, 230 V

Voltage: 220 - 240 V / 50 Hz

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32HGA4492Z	12,8	207,6	280	163,4	1/2"	5/16"	12,7
47-32HGA4512Z	16,1	207,6	287,1	163,4	1/2"	5/16"	13,3

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
HGA4492Z	30	Q <sub>o</sub>	856	1058	1295	1574	1899	2276	2710	3206	3771
		P	442	465	482	492	498	498	493	485	472
	40	Q <sub>o</sub>	-	917	1125	1365	1641	1960	2327	2746	3224
		P	-	521	550	572	587	596	600	598	591
	50	Q <sub>o</sub>	-	-	944	1143	1369	1628	1925	2265	2654
		P	-	-	618	654	682	703	718	726	728
HGA4512Z	30	Q <sub>o</sub>	1067	1316	1609	1952	2353	2818	3353	3964	4659
		P	579	602	624	642	655	664	666	661	649
	40	Q <sub>o</sub>	-	1139	1400	1700	2045	2442	2897	3417	4008
		P	-	672	704	734	760	782	798	808	810
	50	Q <sub>o</sub>	-	-	1148	1395	1676	1997	2363	2783	3261
		P	-	-	789	830	868	903	933	958	976

**Compressors rotary  
Tecumseh / L'Unite**

R134a, AC, 230 V

Voltage: 220 - 240 V / 50 Hz

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32RK5450Y	11,4	176	127,4	280	1/2"	5/16"	11,7
47-32RK5480Y	18,1	176	127,4	290	1/2"	5/16"	12
47-32RK5512Y	24,4	176	127,4	312	5/8"	5/16"	13,5

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
RK5450Y	45	Q <sub>o</sub>	-	-	643	760	920	1124	1370	1660	1992
		P	-	-	340	349	358	367	376	384	393
	55	Q <sub>o</sub>	-	-	-	-	746	926	1144	1398	1688
		P	-	-	-	-	374	390	408	426	444
	60	Q <sub>o</sub>	-	-	-	-	-	818	1019	1254	1521
		P	-	-	-	-	-	402	424	446	469
RK5480Y	45	Q <sub>o</sub>	-	-	1028	1235	1506	1840	2239	2702	3229
		P	-	-	518	542	565	585	603	619	634
	55	Q <sub>o</sub>	-	-	-	-	1220	1518	1870	2276	2737
		P	-	-	-	-	590	623	655	686	716
	60	Q <sub>o</sub>	-	-	-	-	-	1341	1667	2042	2467
		P	-	-	-	-	-	642	680	719	757
RK5512Y	45	Q <sub>o</sub>	-	-	1339	1605	1952	2381	2891	3482	4154
		P	-	-	670	701	729	755	776	795	811
	55	Q <sub>o</sub>	-	-	-	-	1582	1959	2402	2913	3491
		P	-	-	-	-	762	804	843	880	915
	60	Q <sub>o</sub>	-	-	-	-	-	1746	2154	2621	3149
		P	-	-	-	-	-	828	875	922	967

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

**Compressors rotary  
Tecumseh / L'Unite**

R134a, AC, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32TRK5450Y	11,4	176	127,4	280	1/2"	5/16"	11,7
47-32TRK5480Y	18,1	176	127,4	290	1/2"	5/16"	12
47-32TRK5512Y	24,4	176	127,4	312	5/8"	5/16"	13,5

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TRK5450Y	45	Q <sub>o</sub>	-	-	643	760	920	1124	1370	1660	1992
		P	-	-	388	401	414	426	437	448	458
	55	Q <sub>o</sub>	-	-	-	-	746	926	1144	1398	1688
		P	-	-	-	-	432	453	475	496	518
	60	Q <sub>o</sub>	-	-	-	-	-	818	1019	1254	1521
		P	-	-	-	-	-	467	493	520	547
TRK5480Y	45	Q <sub>o</sub>	-	-	1028	1235	1506	1840	2239	2702	3229
		P	-	-	-	-	-	-	-	-	-
	55	Q <sub>o</sub>	-	-	-	-	1220	1518	1870	2276	2737
		P	-	-	-	-	-	-	-	-	-
	60	Q <sub>o</sub>	-	-	-	-	-	1341	1667	2042	2467
		P	-	-	-	-	-	-	-	-	-
TRK5512Y	45	Q <sub>o</sub>	-	-	1339	1605	1952	2381	2891	3482	4154
		P	-	-	-	-	-	-	-	-	-
	55	Q <sub>o</sub>	-	-	-	-	1582	1959	2402	2913	3491
		P	-	-	-	-	-	-	-	-	-
	60	Q <sub>o</sub>	-	-	-	-	-	1746	2154	2621	3149
		P	-	-	-	-	-	-	-	-	-

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors rotary Tecumseh / L'Unite

R407C, AC, 230 V

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32AE5470C	13,30	155	195	212	3/8"	1/4"	12,6
47-32AJ5510C	18,60	165	235	258	3/8"	1/4"	20
47-32AJ5512C	21,75	165	235	258	3/8"	1/4"	20
47-32AJ5515C	25,95	165	235	271	1/2"	5/16"	21
47-32RK5480C	11,40	176	176	280	1/2"	5/16"	11,4
47-32RK5490C	12,90	176	176	280	1/2"	5/16"	11,8
47-32RK5510C	14,60	176	176	290	1/2"	5/16"	12,3
47-32RK5512W	16,30	176	176	290	1/2"	5/16"	12,3
47-32RK5513W	18,10	176	176	312	1/2"	5/16"	12,9
47-32RK5515W	21,40	176	176	312	5/8"	5/16"	14,1
47-32RK5518W	24,40	176	176	312	5/8"	5/16"	13,8

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]							
			-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
AE5470C	35	Q <sub>o</sub>	400	604	855	1152	1496	1887	2324	2808
		P	436	501	553	592	619	632	633	621
	45	Q <sub>o</sub>	-	474	681	934	1232	1574	1962	2395
		P	-	499	556	606	647	682	708	727
	55	Q <sub>o</sub>	-	-	-	716	967	1261	1599	1981
		P	-	-	-	618	674	728	779	829
AJ5510C	35	Q <sub>o</sub>	-19	315	729	1222	1795	2446	3177	3986
		P	271	402	513	602	669	716	741	745
	45	Q <sub>o</sub>	-	251	582	991	1477	2041	2683	3402
		P	-	401	515	615	701	772	829	872
	55	Q <sub>o</sub>	-	-	-	759	1159	1636	2188	2817
		P	-	-	-	627	730	825	912	993
AJ5512C	35	Q <sub>o</sub>	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	-	-	-
	45	Q <sub>o</sub>	-	722	1069	1509	2042	2668	3387	4199
		P	-	682	796	897	985	1059	1120	1168
	55	Q <sub>o</sub>	-	-	-	1156	1603	2137	2759	3468
		P	-	-	-	915	1025	1131	1232	1329
AJ5515C	35	Q <sub>o</sub>	-	-	-	-	-	-	-	-
		P	-	-	-	-	-	-	-	-
	45	Q <sub>o</sub>	-	1081	1529	2082	2741	3505	4375	5350
		P	-	876	1018	1142	1248	1336	1406	1457
	55	Q <sub>o</sub>	-	-	-	1595	2151	2809	3569	4432
		P	-	-	-	1166	1300	1427	1547	1660
RK5480C	35	Q <sub>o</sub>	807	926	1102	1334	1621	1965	2364	2820
		P	335	370	397	418	432	439	438	431
	45	Q <sub>o</sub>	-	807	986	1212	1485	1805	2173	2588
		P	-	425	457	483	502	514	521	520
	55	Q <sub>o</sub>	-	-	-	1026	1268	1549	1868	2226
		P	-	-	-	550	577	598	614	624
RK5490C	35	Q <sub>o</sub>	759	916	1132	1406	1738	2129	2578	3084
		P	326	388	437	471	491	497	489	467
	45	Q <sub>o</sub>	-	797	1012	1277	1592	1956	2369	2832
		P	-	446	502	543	570	583	581	564
	55	Q <sub>o</sub>	-	-	-	1082	1360	1678	2038	2437
		P	-	-	-	619	656	678	685	677
RK5510C	35	Q <sub>o</sub>	1053	1206	1432	1731	2102	2546	3063	3652
		P	426	475	514	543	563	572	571	560
	45	Q <sub>o</sub>	-	1050	1280	1572	1925	2339	2815	3353
		P	-	546	591	627	654	670	678	676
	55	Q <sub>o</sub>	-	-	-	1331	1644	2008	2421	2885
		P	-	-	-	714	752	780	799	810

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]							
			-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
RK5512W	35	Q <sub>o</sub>	1105	1287	1549	1888	2307	2803	3379	4032
		P	507	556	595	624	644	653	653	642
	45	Q <sub>o</sub>	-	1122	1385	1716	2112	2575	3105	3701
		P	-	639	684	721	748	766	775	775
	55	Q <sub>o</sub>	-	-	-	1453	1804	2210	2669	3183
		P	-	-	-	821	860	891	914	929
RK5513W	35	Q <sub>o</sub>	1279	1467	1742	2104	2554	3091	3715	4426
		P	537	588	630	664	688	703	710	708
	45	Q <sub>o</sub>	-	1279	1558	1912	2339	2840	3414	4062
		P	-	677	725	766	799	825	844	855
	55	Q <sub>o</sub>	-	-	-	1619	1997	2436	2935	3494
		P	-	-	-	873	919	960	995	1024
RK5515W	35	Q <sub>o</sub>	1559	1787	2122	2563	3111	3766	4527	5394
		P	628	691	742	781	807	820	822	811
	45	Q <sub>o</sub>	-	1558	1898	2329	2849	3460	4160	4951
		P	-	795	854	901	937	962	976	979
	55	Q <sub>o</sub>	-	-	-	1972	2433	2968	3577	4258
		P	-	-	-	1026	1078	1120	1151	1173
RK5518W	35	Q <sub>o</sub>	1801	2059	2440	2942	3567	4313	5181	6171
		P	770	834	886	927	957	975	981	976
	45	Q <sub>o</sub>	-	1794	2182	2673	3266	3963	4762	5664
		P	-	960	1020	1070	1112	1143	1166	1179
	55	Q <sub>o</sub>	-	-	-	2263	2790	3400	4095	4873
		P	-	-	-	1219	1278	1330	1375	1412

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>c</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Tecumseh / L'Unite

R407C, AC, 400 V

Code	Displ. [cm <sup>3</sup> ]	Diameters [mm]			Connection		Weight [kg]
		width	length	height	suction	discharge	
47-32TAJ5515C	25,95	165	235	282	1/2"	5/16"	21
47-32TAJ5519C	34,45	165	235	282	1/2"	5/16"	21
47-32TFH5522C	39,95	190,5	246	354	5/8"	3/8"	31
47-32TFH5524C	43,50	190,5	246	354	5/8"	3/8"	31,1

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]							
			-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAJ5519C	35	Q <sub>o</sub>	1304	1954	2716	3589	4575	5672	6881	8202
		P	958	1180	1361	1503	1603	1664	1684	1664
	45	Q <sub>o</sub>	-	1538	2168	2910	3765	4732	5812	7005
		P	-	1176	1368	1536	1678	1794	1885	1951
	55	Q <sub>o</sub>	-	-	-	2231	2954	3792	4742	5806
		P	-	-	-	1567	1747	1916	2075	2223

Type	Conden. tem. [°C]	Capacity/ Input	Evaporating temperature [°C] / cooling capacity [W]							
			-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TFH5522C	30	Q <sub>o</sub>	1450	2094	2880	3825	4947	6261	7784	9532
		P	1118	1262	1408	1557	1710	1869	2034	2208
	40	Q <sub>o</sub>	1068	1629	2320	3159	4160	5341	6720	8311
		P	1113	1285	1458	1633	1814	1999	2191	2391
	50	Q <sub>o</sub>	-	-	1782	2496	3361	4394	5610	7028
		P	-	-	1480	1692	1908	2129	2357	2593
TFH5524C	30	Q <sub>o</sub>	1622	2276	3082	4060	5232	6619	8241	10120
		P	1084	1206	1316	1418	1518	1620	1731	1854
	40	Q <sub>o</sub>	1254	1830	2540	3406	4450	5691	7151	8851
		P	1085	1261	1416	1553	1679	1798	1916	2038
	50	Q <sub>o</sub>	-	-	2001	2742	3644	4726	6011	7519
		P	-	-	1448	1647	1825	1987	2139	2284

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

### Condensing units Tecumseh / L'Unité

R404A, LBP, 230 V

Voltage: 220 - 240 V / 50 Hz

Code	Type	Air flow [m <sup>3</sup> /h]	Receiver volume [l]	Acoustics power [dB(A)]
47-32SILAJ2446ZFZ	SILAJ2446ZFZ	1650	1,5	49
47-32SILAJ2464ZFZ	SILAJ2464ZFZ	2700	2,35	50

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
SILAJ2446ZFZ	1/2"	3/8"	654	942	837	88,8
SILAJ2464ZFZ	5/8"	1/2"	654	942	837	106,2

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]							
			-45,0	-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
SILAJ2446ZFZ	25	Q <sub>o</sub>	421	598	810	1057	1342	1666	2032	2441
		P	524	593	669	754	847	949	1059	1177
	32	Q <sub>o</sub>	354	518	711	935	1191	1479	1803	2163
		P	501	580	667	763	867	979	1099	1228
	43	Q <sub>o</sub>	249	393	557	743	951	1183	1439	1722
		P	463	559	664	776	897	1026	1163	1309
SILAJ2464ZFZ	25	Q <sub>o</sub>	594	821	1095	1416	1785	2198	2653	3144
		P	699	788	888	1002	1128	1266	1418	1581
	32	Q <sub>o</sub>	495	705	956	1249	1582	1955	2364	2805
		P	664	766	880	1006	1145	1297	1461	1638
	43	Q <sub>o</sub>	-	526	739	985	1264	1573	1910	2271
		P	-	731	866	1013	1172	1345	1529	1727

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]



## Condensing units Tecumseh / L'Unite

R404A, LBP, 230 V

Tecumseh / L'Unite condensing temperature 54,5°C, ambient temperature and gas return temperature 32°C, liquid temperature 32°C.

**Voltage:** 220 - 240 V / 50 Hz

Code	Phases of ventilators	Receiver volume [l]
47-32AE2410ZBR	1	0,75
47-32AE2415ZBR	1	0,75
47-32AE2420ZBR	1	0,75
47-32AE2425ZBR	1	0,75
47-32CAJN2428ZBR	1	1,5
47-32CAJN2432ZBR	1	1,5
47-32CAJN2440ZBR	1	1,5
47-32CAJN2446ZBR	1	2,35
47-32CAJN2464ZBR	1	2,35



Code	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
47-32AE2410ZBR	3/8"	1/4"	312	398	237	18,8
47-32AE2415ZBR	3/8"	1/4"	322	404	257	19,5
47-32AE2420ZBR	3/8"	1/4"	322	404	257	20,7
47-32AE2425ZBR	3/8"	1/4"	336	501	298	25,5
47-32CAJN2428ZBR	1/2"	1/4"	345	511	304	30,0
47-32CAJN2432ZBR	1/2"	1/4"	345	511	304	30,0
47-32CAJN2440ZBR	1/2"	3/8"	345	511	304	31,0
47-32CAJN2446ZBR	1/2"	3/8"	432	487	340	33,0
47-32CAJN2464ZBR	5/8"	3/8"	432	487	340	34,0

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]						
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
AE2410ZBR	25	Q <sub>o</sub>	107	149	198	254	317	384	456
		P	169	184	201	219	240	263	288
	32	Q <sub>o</sub>	91	131	177	228	284	345	408
		P	167	184	203	224	247	272	299
	43	Q <sub>o</sub>		100	139	182	228	277	328
		P		183	206	230	257	286	316
AE2415ZBR	25	Q <sub>o</sub>	168	220	279	345	417	494	573
		P	217	242	270	299	332	368	408
	32	Q <sub>o</sub>	146	194	249	309	375	444	516
		P	218	245	274	306	340	378	420
	43	Q <sub>o</sub>		154	200	251	305	363	423
		P		246	278	313	350	391	436

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]						
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
AE2420ZBR	25	Q <sub>o</sub>	224	296	379	472	574	683	797
		P	263	288	320	359	404	456	514
	32	Q <sub>o</sub>	192	258	334	419	511	609	711
		P	260	290	327	370	419	476	538
	43	Q <sub>o</sub>		199	264	335	412	493	577
		P		293	337	387	444	507	577
AE2425ZBR	25	Q <sub>o</sub>	296	389	496	614	743	880	1024
		P	374	408	452	504	564	634	712
	32	Q <sub>o</sub>	255	343	442	552	669	795	925
		P	372	411	459	515	580	653	735
	43	Q <sub>o</sub>		271	358	452	552	658	769
		P		415	469	532	604	684	772
CAJN2428ZBR	25	Q <sub>o</sub>	270	370	485	616	761	919	1087
		P	349	401	466	541	629	728	838
	32	Q <sub>o</sub>	224	314	419	537	667	808	959
		P	328	384	451	530	620	722	836
	43	Q <sub>o</sub>		228	316	414	521	637	761
		P		356	428	512	607	714	832
CAJN2432ZBR	25	Q <sub>o</sub>	326	447	586	743	913	1094	1284
		P	385	444	513	590	676	771	875
	32	Q <sub>o</sub>	271	380	506	645	796	957	1125
		P	368	432	504	586	676	775	884
	43	Q <sub>o</sub>		278	381	494	616	745	881
		P		412	491	579	677	783	897
CAJN2440ZBR	25	Q <sub>o</sub>	379	512	662	826	999	1177	1354
		P	457	524	603	695	799	916	1045
	32	Q <sub>o</sub>	317	439	577	727	886	1049	1213
		P	439	513	598	696	807	930	1065
	43	Q <sub>o</sub>		332	451	580	716	857	
		P		494	590	698	819	952	
CAJN2446ZBR	25	Q <sub>o</sub>	567	766	990	1237	1504	1785	2074
		P	557	640	734	838	953	1080	1216
	32	Q <sub>o</sub>	480	664	869	1093	1334	1586	1843
		P	539	632	735	849	973	1109	1255
	43	Q <sub>o</sub>		504	679	867	1067	1273	1482
		P		619	737	866	1005	1155	1316
CAJ2464ZBR	25	Q <sub>o</sub>	764	1003	1275	1574	1894	2226	2560
		P	794	897	1020	1163	1326	1510	1715
		P	767	881	1016	1170	1345	1541	1756
	43	Q <sub>o</sub>		679	879	1092	1312	1531	1742
		P		857	1010	1182	1375	1588	1822
	CAJN2464ZBR	25	Q <sub>o</sub>	733	959	1215	1497	1798	2113
P			767	880	1011	1159	1323	1506	1705
32		Q <sub>o</sub>	631	838	1070	1323	1593	1873	2157
		P	750	873	1013	1171	1346	1538	1747
43		Q <sub>o</sub>		649	843	1053	1274	1501	1731
		P		861	1017	1191	1381	1589	1814

## Condensing units Tecumseh / L'Unité

R404A, LBP, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Air flow [m³/h]	Receiver volume [l]	Acoustics power [dB(A)]
47-32SILFH2480ZTZ	SILFH2480ZTZ	2700	2,35	53
47-32SILFH2511ZTZ	SILFH2511ZTZ	2700	2,35	54
47-32SILAG2516ZTZ	SILAG2516ZTZ	5400	6,0	58
47-32SILAG2522ZTZ	SILAG2522ZTZ	5400	6,0	59
47-32SILAGD2532ZTZ	SILAGD2532ZTZ	6600	9,5	63
47-32SILAGD2544ZTZ	SILAGD2544ZTZ	6600	9,5	64

Code	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
SILFH2480ZTZ	5/8"	1/2"	654	1174	837	106,2
SILFH2511ZTZ	5/8"	1/2"	654	1174	837	108,3
SILAG2516ZTZ	7/8"	3/8"	654	1209	1465	143,8
SILAG2522ZTZ	7/8"	3/8"	654	1209	1465	145,8
SILAGD2532ZTZ	1 1/8"	5/8"	654	1666	1457	262,4
SILAGD2544ZTZ	1 1/8"	5/8"	654	1666	1457	278,0

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]							
			-45,0	-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
SILFH2480ZTZ	25	Q <sub>o</sub>	787	1144	1549	2000	2492	3019	3572	4144
		P	904	1089	1283	1486	1697	1916	2145	2381
	32	Q <sub>o</sub>	575	920	1306	1732	2193	2685	3200	3731
		P	794	1006	1227	1456	1693	1940	2194	2458
	43	Q <sub>o</sub>	-	572	928	1315	1730	2168	2625	3093
		P	-	876	1138	1409	1688	1976	2272	2577
SILFH2511ZTZ	25	Q <sub>o</sub>	1021	1463	2001	2636	3365	4184	5089	6073
		P	1139	1326	1546	1800	2087	2409	2763	3152
	32	Q <sub>o</sub>	774	1185	1684	2270	2943	3699	4536	5446
		P	1051	1259	1500	1774	2083	2425	2800	3209
	43	Q <sub>o</sub>	-	756	1188	1694	2276	2933	3663	4461
		P	-	1154	1427	1735	2075	2450	2858	3300
SILAG2516ZTZ	25	Q <sub>o</sub>	1334	2054	2918	3927	5081	6379	7822	9409
		P	1853	2121	2436	2799	3210	3669	4176	4730
	32	Q <sub>o</sub>	924	1607	2410	3335	4379	5545	6831	8238
		P	1672	1979	2335	2738	3189	3688	4234	4829
	43	Q <sub>o</sub>	-	905	1612	2403	3277	4235	5275	6398
		P	-	1757	2175	2641	3155	3717	4327	4984
SILAG2522ZTZ	25	Q <sub>o</sub>	1736	2531	3486	4599	5859	7245	8729	10276
		P	1916	2281	2700	3174	3701	4283	4919	5609
	32	Q <sub>o</sub>	1344	2088	2969	3988	5137	6402	7758	9174
		P	1786	2178	2625	3126	3681	4290	4954	5671
	43	Q <sub>o</sub>	-	1409	2182	3060	4045	5126	6286	7504
		P	-	2017	2507	3051	3649	4302	5008	5769

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]							
			-45,0	-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
SILAGD2532ZTZ	25	Q <sub>o</sub>	2157	3560	5172	6995	9027	11270	13722	16384
		P	3004	3593	4261	5009	5835	6741	7726	8790
	32	Q <sub>o</sub>	1466	2720	4174	5828	7682	9735	11987	14439
		P	2742	3383	4104	4903	5782	6740	7777	8893
	43	Q <sub>o</sub>		1402	2607	3995	5567	7322	9261	11383
		P		3054	3856	4738	5698	6738	7857	9055
SILAGD2544ZTZ	25	Q <sub>o</sub>	3110	4664	6525	8698	11171	13913	16881	20015
		P	3667	4375	5199	6139	7194	8366	9654	11058
	32	Q <sub>o</sub>	2333	3772	5463	7415	9619	12052	14674	17431
		P	3373	4142	5026	6027	7143	8376	9724	11188
	43	Q <sub>o</sub>		2405	3851	5477	7282	9251	11355	13551
		P		3776	4755	5851	7063	8390	9834	11393

t<sub>o</sub>: evaporating temperature [°C]      Q<sub>o</sub>: cooling capacity [W]  
 t<sub>k</sub>: condensing temperature [°C]      P: power input [W]

### Condensing units Tecumseh / L'Unite

R404A, LBP, 400 V

Tecumseh / L'Unite condensing temperature 54,5 °C,  
 ambient temperature and gas return temperature  
 32°C, liquid temperature 32°C.

Voltage: 380 - 420 V / 50 Hz



Code	Type	Phases of ventilator	Air flow [m³/h]	Receiver volume [l]	Acoustic power [dB(A)]
47-32TAJN2446ZBR	TAJN2446ZBR	1	900	2,35	64
47-32TAJN2464ZBR	TAJN2464ZBR	1	900	2,35	65
47-32TFHT2480ZBR	TFHT2480ZBR	1	1750	1,5	74
47-32TFHT2511ZBR	TFHT2511ZBR	1	1750	1,5	77
47-32TAGT2525ZBR	TAGT2525ZBR	1	3300	3,9	85
47-32TAGT2516ZBR	TAGT2516ZBR	1	3670	2,35	81
47-32TAGT2522ZBR	TAGT2522ZBR	1	3670	2,35	82
47-32TAGT2513ZBR	TAGT2513ZBR	1	3900	2,35	82
47-32TAG2516ZBR	TAG2516ZBR	3	4800	6	80
47-32TAGDT2532ZBR	TAGDT2532ZBR	1	7000	6	84
47-32TAGDT2544ZBR	TAGDT2544ZBR	1	7000	6	85

Type	Connection		Dimensions [mm]			Weight [kg]
	suction	discharge	width	length	height	
TAJN2446ZBR	1/2"	3/8"	430	490	340	38
TAJN2464ZBR	5/8"	3/8"	432	487	340	34
TFHT2480ZBR	5/8"	3/8"	512	607	436	57
TFHT2511ZBR	5/8"	3/8"	512	607	436	57
TAGT2525ZBR	1" 1/8	3/8"	591	829	540	79
TAGT2516ZBR	7/8"	3/8"	591	607	540	74
TAGT2522ZBR	1" 1/8	3/8"	591	607	540	77
TAGT2513ZBR	7/8"	3/8"	591	607	540	73

Type	Connection		Dimensions [mm]			Weight [kg]
	suction	discharge	width	length	height	
TAG2516ZBR	7/8"	3/8"	618	1002	452	106
TAGDT2532ZBR	1" 1/8	5/8"	644	1060	587	154
TAGDT2544ZBR	1" 1/8	5/8"	644	1060	582	161

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]						
			-40	-35	-30	-25	-20	-15	10
TAJN2446ZBR	25	Q <sub>o</sub>	547	736	951	1189	1448	1722	2005
		P	519	619	727	843	968	1101	1243
	32	Q <sub>o</sub>	460	633	830	1046	1280	1527	1782
		P	497	606	724	849	983	1125	1276
	43	Q <sub>o</sub>		480	647	830	1026	1231	1442
		P		587	719	858	1007	1163	1328
TAJN2464ZBR	25	Q <sub>o</sub>	728	955	1212	1491	1787	2091	2395
		P	693	817	958	1117	1293	1486	1697
	32	Q <sub>o</sub>	622	831	1063	1315	1579	1850	1218
		P	671	805	957	1126	1312	1516	1737
	43	Q <sub>o</sub>		636	832	1041	1258	1477	
		P		786	954	1139	1342	1562	
TFHT2480ZBR	25	Q <sub>o</sub>	1123	1509	1937	2401	2897	3420	3965
		P	1047	1248	1454	1669	1897	2141	2404
	32	Q <sub>o</sub>	921	1290	1694	2131	2595	3081	3587
		P	995	1214	1439	1673	1921	2185	2470
	43	Q <sub>o</sub>		948	1318	1711	2126	2557	3003
		P		1141	1402	1673	1957	2259	2582
TFHT2511ZBR	25	Q <sub>o</sub>	1409	1907	2461	3063	3709	4400	5143
		P	1281	1519	1779	2071	2405	2788	3229
	32	Q <sub>o</sub>	1160	1624	2139	2697	3293	3927	4606
		P	1239	1488	1791	2067	2416	2818	3279
	43	Q <sub>o</sub>		1222	1674	2162	2679	3225	3809
		P		1431	1730	2063	2443	2877	3373
TAGT2525ZBR	25	Q <sub>o</sub>	2898	3892	5019	6260	7595	8999	10448
		P	2429	2923	3459	4044	4686	5392	6171
	32	Q <sub>o</sub>	2404	3334	4378	5520	6743	8029	9359
		P	2374	2896	3460	4072	4741	5472	6274
	43	Q <sub>o</sub>		2482	3391	4374	5421	6522	7671
		P		2799	3409	4068	4782	5558	6401
TAGT2516ZBR	25	Q <sub>o</sub>	2749	3237	3998	4983	6134	7391	8684
		P	2221	2331	2531	2835	3254	3800	4478
	32	Q <sub>o</sub>	2239	2688	3388	4289	5340	6479	7642
		P	2058	2253	2522	2881	3341	3913	4603
	43	Q <sub>o</sub>		1907	2509	3279	4167	5117	6063
		P		2187	2560	3001	3520	4129	4835

TAGT2522ZBR	25	Q <sub>o</sub>	2642	3547	4591	5760	7033	8383	9784
		P	2243	2671	3141	3663	4244	4896	5628
	32	Q <sub>o</sub>	2204	3023	3965	5020	6174	7411	8715
		P	2187	2634	2136	3669	4273	4946	5696
	43	Q <sub>o</sub>		2227	3017	3900	4875	5941	7099
		P		2527	3058	3642	4287	4999	5786
TAGT2513ZBR	25	Q <sub>o</sub>	1581	2246	3032	3923	4897	5925	6969
		P	1630	1971	2334	2726	3155	3630	4162
	32	Q <sub>o</sub>	1236	1838	2550	3361	4255	5210	6199
		P	1546	1906	2291	2705	3156	3652	4200
	43	Q <sub>o</sub>	721	1230	1829	2515	3284	4126	5028
		P	1353	1743	2162	2614	3104	3636	4218
TAG2516ZBR	25	Q <sub>o</sub>	1877	2683	3545	4463	5437	6467	7552
		P	1684	2045	2432	2845	3285	3750	4242
	32	Q <sub>o</sub>	1602	2332	3130	3997	4932	5937	7009
		P	1725	2105	2525	2985	3486	4027	4608
	43	Q <sub>o</sub>		1893	2582	3360	4226	5181	6225
		P		2201	2672	3206	3802	4461	5183
TAGDT2532ZBR	25	Q <sub>o</sub>	5035	6197	7869	9956	12352	14947	17635
		P	4959	5275	5692	6246	6964	7868	8968
	32	Q <sub>o</sub>	4379	5426	6914	8767	10895	13201	15592
		P	4417	4887	5456	6158	7018	8053	9275
	43	Q <sub>o</sub>		3960	5238	6807	8593	10517	12497
		P		4303	5107	6037	7114	8352	9757
TAGDT2544ZBR	25	Q <sub>o</sub>	5131	6925	8979	11258	13716	16300	18954
		P	4471	5334	6280	7330	8502	9818	11296
	32	Q <sub>o</sub>	4281	5922	7788	9851	12075	14418	16838
		P	4353	5257	6246	7337	8552	9909	11428
	43	Q <sub>o</sub>		4396	5982	7720	9591	11573	13646
		P		5044	6111	7280	8572	10005	11597

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

### Condensing units Tecumseh / L'Unite

R404A, HBP, 230 V



Voltage: 220 - 240 V / 50 Hz

Code	Type	Air flow [m <sup>3</sup> /h]	Receiver volume [l]	Acoustics power [dB(A)]
47-32SILAJ9513ZFZ	SILAJ9513ZFZ	1650	1,5	51
47-32SILAJ4517ZFZ	SILAJ4517ZFZ	2700	2,35	56
47-32SILAJ4519ZFZ	SILAJ4519ZFZ	2700	2,35	58
47-32SILFH4524ZFZ	SILFH4524ZFZ	2700	3,9	57

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
SILAJ9513ZFZ	5/8"	3/8"	654	942	837	71
SILAJ4517ZFZ	5/8"	3/8"	654	1174	837	70
SILAJ4519ZFZ	5/8"	3/8"	654	1174	837	71
SILFH4524ZFZ	5/8"	3/8"	654	1174	837	83

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
SILAJ9513ZFZ	25	Q <sub>o</sub>	1235	1572	1947	2360	2809	3289	3799	4335	4894
		P	737	823	911	1003	1097	1193	1293	1395	1500
	32	Q <sub>o</sub>	1040	1361	1710	2087	2490	2917	3366	3834	4319
		P	716	815	917	1022	1130	1241	1354	1470	1589
	43	Q <sub>o</sub>	726	1022	1329	1649	1981	2325	2679	3042	3415
		P	681	803	927	1053	1183	1315	1450	1587	1728
SILAJ4517ZFZ	25	Q <sub>o</sub>	1043	1290	1575	1898	2259	2656	3087	3550	4043
		P	663	730	797	865	932	999	1066	1134	1201
	32	Q <sub>o</sub>	903	1134	1396	1688	2010	2362	2742	3149	3582
		P	663	742	821	900	979	1058	1138	1217	1296
	43	Q <sub>o</sub>	673	881	1107	1350	1613	1895	2198	2520	2862
		P	662	760	858	956	1054	1152	1249	1347	1445
SILAJ4517ZFZ	25	Q <sub>o</sub>	1358	1725	2142	2607	3116	3666	4250	4864	5500
		P	925	1020	1119	1222	1328	1438	1552	1669	1791
	32	Q <sub>o</sub>	1145	1501	1895	2325	2789	3284	3803	4344	4901
		P	931	1038	1150	1265	1384	1507	1633	1763	1897
	43	Q <sub>o</sub>			1497	1870	2261	2666	3083	3510	3942
		P			1198	1333	1472	1614	1760	1910	2064
SILAJ4519ZFZ	25	Q <sub>o</sub>	1754	2231	2768	3363	4018	4730	5500	6324	7202
		P	1280	1387	1501	1624	1755	1894	2042	2197	2361
	32	Q <sub>o</sub>		1993	2490	3031	3616	4245	4915	5625	6373
		P		1405	1537	1676	1824	1980	2144	2317	2497
	43	Q <sub>o</sub>			2040	2493	2967	3461	3974	4505	5054
		P			1592	1758	1932	2115	2306	2504	2711
SILFH4524ZFZ	25	Q <sub>o</sub>	1865	2444	3096	3818	4608	5461	6373	7341	8360
		P	1328	1481	1641	1808	1983	2164	2353	2548	2751
	32	Q <sub>o</sub>	1542	2096	2705	3369	4084	4850	5662	6520	7419
		P	1293	1466	1645	1832	2025	2226	2433	2648	2870
	43	Q <sub>o</sub>			2070	2638	3236	3863	4519	5205	5923
		P			1651	1868	2092	2322	2560	2805	3057

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

**Condensing units**  
**Tecumseh / L'Unite**

R404A, HBP, 230 V

Voltage: 220 - 240 V / 50 Hz

Code	Type	Air flow [m <sup>3</sup> /h]	Receiver volume [l]	Acoustic power [dB(A)]
47-32AE4430ZHR	AE4430ZHR	410	0,75	60
47-32AE4440ZHR	AE4440ZHR	800	0,75	66
47-32AE4450ZHR	AE4450ZHR	980	0,75	70
47-32AE4460ZHR	AE4460ZHR	980	0,75	70
47-32AE4470ZHR	AE4470ZHR	1130	0,75	70
47-32CAJN9480ZMHR	CAJN9480ZMHR	900	1,5	66
47-32CAJN9510ZMHR	CAJN9510ZMHR	900	1,5	66
47-32CAJN9513ZMHR	CAJN9513ZMHR	900	1,5	65
47-32CAJN4517ZHR	CAJN4517ZHR	1700	2,35	71
47-32CAJN4519ZHR	CAJN4519ZHR	1700	2,35	71

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
AE4430ZHR	3/8"	1/4"	322	404	257	19,3
AE4440ZHR	3/8"	1/4"	336	501	298	23,9
AE4450ZHR	3/8"	1/4"	336	501	298	24,9
AE4460ZHR	3/8"	1/4"	336	501	298	24,8
AE4470ZHR	3/8"	1/4"	433	496	338	27,6
CAJN9480ZMHR	1/2"	3/8"	433	481	340	32
CAJN9510ZMHR	5/8"	3/8"	433	481	340	33
CAJN9513ZMHR	5/8"	3/8"	433	481	340	33
CAJN4517ZHR	5/8"	3/8"	513	608	436	41
CAJN4519ZHR	5/8"	3/8"	513	608	436	41

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
AE4430ZHR	25	Q <sub>o</sub>	253	320	397	483	577	678	785	896	1008
		P	224	242	260	279	298	318	337	358	378
	32	Q <sub>o</sub>		288	358	435	519	608	700	795	890
		P		247	269	291	313	336	359	383	407
	43	Q <sub>o</sub>			291	355	422	491	562	633	703
		P			282	309	337	365	393	422	451
AE4040ZHR	25	Q <sub>o</sub>	357	446	549	664	791	928	1073	1224	1380
		P	334	359	384	409	434	460	487	513	540
	32	Q <sub>o</sub>		396	490	594	708	829	956	1089	1224
		P		368	396	425	454	484	514	544	575
	43	Q <sub>o</sub>			395	482	574	670	771	875	981
		P			416	450	486	521	557	593	630
AE4450ZHR	25	Q <sub>o</sub>	464	575	698	833	975	1123	1274	1424	1569
		P	399	439	479	520	562	605	650	695	742
	32	Q <sub>o</sub>		508	622	743	870	1000	1131	1260	1385
		P		444	491	538	587	636	687	739	792
	43	Q <sub>o</sub>			497	598	701	804	905	1004	
		P			510	567	625	685	745	807	



Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
AE4460ZHR	25	Q <sub>o</sub>	557	663	777	898	1023	1150	1277	1405	1533
		P	476	517	564	616	673	736	803	876	955
	32	Q <sub>o</sub>		589	694	803	915	1028	1141	1256	
		P		540	590	645	704	770	840	916	
	43	Q <sub>o</sub>				651	743	835			
		P				689	753	823			
AE4470ZHR	25	Q <sub>o</sub>	701	859	1034	1226	1434	1658	1895	2145	2407
		P	566	595	636	678	721	766	812	860	909
	32	Q <sub>o</sub>		74	937	1112	1299	1497	1705	1923	2150
		P		609	655	702	751	801	853	906	961
	43	Q <sub>o</sub>			780	928	1080	1238	1401	1569	1744
		P			685	741	798	857	917	979	1042
CAJN9480ZHMR	25	Q <sub>o</sub>	735	921	1129	1359	1608	1871	2146	2427	2708
		P	524	580	638	698	761	825	892	962	1033
	32	Q <sub>o</sub>	636	810	1001	1209	1431	1665	1906	2151	2395
		P	521	585	651	719	790	862	937	1014	1094
	43	Q <sub>o</sub>		633	799	974	1155	1343	1533	1724	
		P		594	672	753	835	920	1007	1097	
CAJN9510ZHMR	25	Q <sub>o</sub>	900	1117	1360	1625	1907	2203	2506	2812	3114
		P	625	697	774	856	942	1034	1130	1231	1337
	32	Q <sub>o</sub>	787	991	1214	1452	1703	1962	2225	2488	2746
		P	627	707	791	881	975	1074	1178	1287	1401
	43	Q <sub>o</sub>		789	981	1178	1380	1584	1786		
		P		722	819	920	1027	1138	1254		
CAJN9513ZHMR	25	Q <sub>o</sub>	1031	1317	1619	1930	2243	2549	2839	3103	3333
		P	693	795	903	1018	1139	1267	1402	1543	1690
	32	Q <sub>o</sub>	858	1134	1417	1704	1986	2258	2510	2769	2930
		P	681	793	910	1035	1165	1303	1447	1597	1754
	43	Q <sub>o</sub>	589	848	1103	1351	1587	1806			
		P	662	789	921	1061	1207	1359			
CAJN4517ZHR	25	Q <sub>o</sub>	1391	1717	2084	2486	2918	3374	3846	4326	4804
		P	856	950	1050	1157	1270	1389	1515	1648	1787
	32	Q <sub>o</sub>		1507	1847	2216	2608	3020	3445	3877	4310
		P		962	1072	1189	1312	1442	1578	1720	1869
	43	Q <sub>o</sub>			1472	1788	2119	2463	2817	3178	3544
		P			1107	1240	1379	1524	1676	1834	1999
CAJN4519ZHR	25	Q <sub>o</sub>	1670	2104	2576	3078	3601	4132	4659	5167	5640
		P	1232	1349	1480	1625	1783	1954	2139	2338	2550
	32	Q <sub>o</sub>		1854	2298	2763	3240	3720	4193	4646	5066
		P		1366	1511	1669	1841	2026	2225	2437	2663
	43	Q <sub>o</sub>			1855	2260	2666	3067	3457	3828	
		P			1560	1740	1933	2140	2360	2594	

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

**Condensing units**  
**Tecumseh / L'Unite**

R404A, HBP,400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Air flow [m³/h]	Receiver volume [l]	Acoustics power [dB(A)]
47-32SILAJ9510ZTZ	SILAJ9510ZTZ	2700	2,35	56
47-32SILFH4524ZTZ	SILFH4524ZTZ	2700	1,5	57
47-32SILFH4531ZTZ	SILFH4531ZTZ	2700	3,9	61
47-32SILFH4540ZTZ	SILFH4540ZTZ	2700	3,9	59
47-32SILAG4546ZTZ	SILAG4546ZTZ	5400	6,0	57
47-32SILAG4553ZTZ	SILAG4553ZTZ	5400	6,0	57
47-32SILAG4561ZTZ	SILAG4561ZTZ	5400	6,0	57
47-32SILAG4568ZTZ	SILAG4568ZTZ	5400	6,0	57
47-32SILAG4573ZTZ	SILAG4573ZTZ	5400	9,5	58
47-32SILAGD4590ZTZ	SILAGD4590ZTZ	6600	9,5	64
47-32SILAGD4610ZTZ	SILAGD4610ZTZ	6600	9,5	64
47-32SILAGD4612ZTZ	SILAGD4612ZTZ	6600	9,5	64
47-32SILAGD4614ZTZ	SILAGD4614ZTZ	6600	9,8	64
47-32SILAGD4615ZTZ	SILAGD4615ZTZ	6600	9,5	64

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
SILAJ9510ZTZ	5/8"	3/8"	624	942	837	69
SILFH4524ZTZ	5/8"	1/2"	654	1174	837	83
SILFH4531ZTZ	7/8"	1/2"	654	1174	837	87
SILFH4540ZTZ	7/8"	1/2"	654	1174	837	87
SILAG4546ZTZ	7/8"	5/8"	654	1209	1465	128
SILAG4553ZTZ	7/8"	5/8"	654	1209	1465	134
SILAG4561ZTZ	1 1/8"	5/8"	654	1209	1465	134
SILAG4568ZTZ	1 1/8"	5/8"	654	1209	1465	138
SILAG4573ZTZ	1 1/8"	5/8"	654	1209	1465	139
SILAGD4590ZTZ	1 1/8"	5/8"	654	1666	1457	274
SILAGD4610ZTZ	1 3/8"	7/8"	654	1666	1457	275
SILAGD4612ZTZ	1 3/8"	7/8"	654	1666	1457	277
SILAGD4614ZTZ	1 3/8"	7/8"	654	1666	1457	280
SILAGD4615ZTZ	1 3/8"	7/8"	654	1666	1457	280

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
SILFH4524ZTZ	25	Q <sub>o</sub>	1891	2466	3125	3857	4653	5502	6392	7313	8252
		P	1254	1442	1628	1811	1991	2169	2344	2517	2687
	32	Q <sub>o</sub>	1553	2098	2712	3386	4112	4880	5681	6505	7342
		P	1220	1428	1633	1836	2036	2233	2428	2620	2810
	43	Q <sub>o</sub>			2032	2616	3233	3788	4540	5217	5903
		P			1642	1876	2106	2335	2560	2783	3003

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
SILFH4531ZTZ	25	Q <sub>o</sub>	2563	3248	4012	4850	5754	6718	7736	8801	9906
		P	1586	1783	1993	2215	2448	2693	2950	3218	3499
	32	Q <sub>o</sub>	2134	2799	3522	4301	5131	6008	6926	7883	8873
		P	1548	1767	1998	2240	2495	2761	3038	3328	3629
	43	Q <sub>o</sub>			2734	3421	4135	4875	5641	6433	7255
		P			2005	2281	2568	2867	3178	3500	3835
SILFH4540ZTZ	25	Q <sub>o</sub>	3024	3815	4678	5598	6566	7568	8597	9644	10704
		P	2093	2372	2668	2982	3313	3661	4026	4409	4809
	32	Q <sub>o</sub>		3391	4217	5087	5992	6925	7880	8852	9840
		P		2394	2696	3016	3352	3706	4077	4465	4871
	43	Q <sub>o</sub>			3477	4270	5081	5909	6752	7614	8499
		P			2741	3069	3414	3777	4157	4554	4968
SILAG4546ZTZ	25	Q <sub>o</sub>	3446	4501	5712	7059	8514	10047	11618	13186	14705
		P	2117	2460	2813	3178	3553	3939	4335	4743	5162
	32	Q <sub>o</sub>	2767	3756	4874	6105	7427	8814	10235	11652	13028
		P	2022	2393	2774	3166	3569	3982	4407	4842	5288
	43	Q <sub>o</sub>			3599	4647	5761	6923	8111	9301	10468
		P			2712	3147	3594	4051	4519	4997	5487
SILAG4553ZTZ	25	Q <sub>o</sub>	4057	5256	6637	8177	9850	11623	13459	15317	17151
		P	2418	2770	3142	3533	3943	4373	4821	5289	5776
	32	Q <sub>o</sub>	3339	4472	5752	7164	8686	10293	11953	13633	15294
		P	2330	2716	3122	3546	3990	4452	4934	5435	5956
	43	Q <sub>o</sub>		3228	4366	5588	6886	8242	9637	11050	12456
		P		2631	3089	3566	4062	4577	5111	5665	6238
SILAG4561ZTZ	25	Q <sub>o</sub>	4561	5828	7267	8853	10554	12331	14142	15940	17673
		P	2672	3077	3515	3988	4495	5036	5611	6219	6862
	32	Q <sub>o</sub>	3782	4989	6329	7784	9328	10931	12557	14166	15714
		P	2616	3047	3512	4011	4543	5110	5711	6345	7014
	43	Q <sub>o</sub>			4840	6110	7427	8773	10124	11450	12723
		P			3506	4046	4619	5227	5868	6544	7253
SILAG4568ZTZ	25	Q <sub>o</sub>	6083	7228	8665	10351	12238	14267	16376	18490	20534
		P	3031	3410	3838	4314	4839	5412	6034	6705	7425
	32	Q <sub>o</sub>	5025	6193	7597	9202	10966	12840	14766	16682	18520
		P	3017	3431	3893	4404	4964	5572	6229	6935	7689
	43	Q <sub>o</sub>			5967	7416	8965	10577	12208	13812	15339
		P			3980	4545	5160	5823	6534	7295	8104
SILAG4573ZTZ	25	Q <sub>o</sub>	5993	7466	9142	10987	12960	15015	17099	19153	21115
		P	3316	3758	4260	4824	5449	6134	6880	7688	8556
	32	Q <sub>o</sub>		6536	8094	9787	11582	13440	15316	17162	18926
		P		3774	4300	4886	5534	6242	7012	7842	8733
	43	Q <sub>o</sub>			6406	7857	9371	10923	12482	14018	15501
		P			4362	4984	5668	6412	7218	8084	9011

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
SILAGD4590ZTZ	25	Q <sub>o</sub>	6818	8936	11361	14047	16935	19953	23016	26026	28875
		P	4174	4864	5569	6288	7021	7768	8529	9305	10094
	32	Q <sub>o</sub>	5563	7578	9854	12361	15050	17863	20727	23558	26263
		P	3961	4711	5475	6252	7045	7851	8671	9506	10355
	43	Q <sub>o</sub>		5510	7551	9772	12147	14638	17193	19750	22243
		P		4470	5326	6197	7082	7981	8895	9822	10764
SILAGD4610ZTZ	25	Q <sub>o</sub>	7313	9630	12243	15099	18127	21237	24322	27260	29912
		P	4548	5302	6100	6940	7825	8752	9724	10728	11796
	32	Q <sub>o</sub>		8329	10786	13441	16234	19086	21905	24578	26983
		P		5177	6034	6934	7878	8865	9895	10969	12086
	43	Q <sub>o</sub>		6271	8505	10863	13304	15771	18191	20478	22543
		P		4980	5930	6924	7961	9041	10165	11332	12542
SILAGD4612ZTZ	25	Q <sub>o</sub>	7894	10724	13721	16822	19926	22915	25681	28150	30310
		P	5142	6001	6886	7816	8815	9902	11098	12425	13903
	32	Q <sub>o</sub>		9382	12196	15077	17951	20734	23355	25786	28064
		P		5970	6943	7942	8988	10101	11304	12616	14059
	43	Q <sub>o</sub>			8622	11056	13428	15716	17921	20093	
		P			6824	7997	9185	10408	11688	13045	
SILAGD4614ZTZ	25	Q <sub>o</sub>	10434	13097	15934	18891	21842	24639	27165	29397	31472
		P	6010	6785	7681	8705	9865	11167	12619	14229	16002
	32	Q <sub>o</sub>		11295	14029	16812	19528	22051	24300	26299	28244
		P		6795	7801	8917	10150	11508	12998	14626	16401
	43	Q <sub>o</sub>			10301	12793	15152	17316	19289		
		P			7870	9151	10521	11987	13556		
SILAGD4615ZTZ	25	Q <sub>o</sub>	10542	13582	16731	19880	22895	25652	28090	30247	32319
		P	6449	7414	8488	9679	10993	12436	14016	15738	17609
	32	Q <sub>o</sub>		11927	14833	17668	20307	22647	24645	26368	
		P		7458	8589	9832	11192	12677	14294	16049	
	43	Q <sub>o</sub>			11124	13609	15905	17970	19829		
		P			8599	9925	11362	12917	14595		

t<sub>o</sub>: evaporating temperature [°C], t<sub>k</sub>: condensing temperature [°C], Q<sub>o</sub>: cooling capacity [W], P: power input [W]

### Condensing units Tecumseh / L'Unite

R404A, HBP, 400 V

Tecumseh / L'Unite EN 13215, gas return temperature +20°C, subcooling 3K.

Voltage: 380 - 420 V / 50 Hz

Code	Type	Air flow [m³/h]	Receiver volume [l]	Acoustic power [dB(A)]
47-32TAJN4517ZHR	TAJN4517ZHR	1700	2,35	71
47-32TAJN4519ZHR	TAJN4519ZHR	1700	2,35	71
47-32TFHT4522ZHR	TFHT4522ZHR	1650	2,35	74
47-32TFHT4540ZHR	TFHT4540ZHR	3300	3,9	82
47-32TFHT4531ZHR	TFHT4531ZHR	3670	3,9	81
47-32TFHT4524ZHR	TFHT4524ZHR	3900	2,35	80
47-32TAGT4573ZHR	TAGT4573ZHR	6000	6	85
47-32TAGT4581ZHR	TAGT4581ZHR	6000	6	86
47-32TAGT4561ZHR	TAGT4561ZHR	7000	6	86
47-32TAGT4568ZHR	TAGT4568ZHR	7000	6	85
47-32TAGT4546ZHR	TAGT4546ZHR	7600	3,9	86

Code	Type	Air flow [m³/h]	Receiver volume [l]	Acoustic power [dB(A)]
47-32TAGT4553ZHR	TAGT4553ZHR	7600	6	85
47-32TAGDT4590ZHR	TAGDT4590ZHR	8270	9,5	88
47-32TAGDT4610ZHR	TAGDT4610ZHR	8270	9,5	87
47-32TAGDT4615ZHR	TAGDT4615ZHR	13000	12	91
47-32TAGDT4612ZHR	TAGDT4612ZHR	14600	9,5	91
47-32TAGDT4614ZHR	TAGDT4614ZHR	14600	12	90

Type	Connection		Diameters [mm]			Weight
	suction	discharge	width	length	height	
TAJN4517ZHR	5/8"	3/8"	512	607	445	40
TAJN4519ZHR	5/8"	3/8"	512	607	445	45
TFHT4522ZHR	5/8"	3/8"	512	607	436	55
TFHT4540ZHR	7/8"	1/2"	591	629	540	70
TFHT4531ZHR	7/8"	1/2"	591	607	540	69
TFHT4524ZHR	5/8"	3/8"	591	607	540	63
TAGT4573ZHR	1 1/8"	5/8"	644	1060	555	107
TAGT4581ZHR	1 1/8"	5/8"	644	1060	555	107
TAGT4561ZHR	1 1/8"	5/8"	644	1066	555	101
TAGT4568ZHR	1 1/8"	5/8"	644	1066	555	102
TAGT4546ZHR	7/8"	5/8"	601	1060	555	96
TAGT4553ZHR	7/8"	5/8"	601	1060	555	99
TAGDT4590ZHR	1 1/8"	3/4"	720	1417	664	175
TAGDT4610ZHR	1 1/8"	3/4"	720	1417	664	179
TAGDT4615ZHR	1 3/8"	7/8"	720	1417	868	217
TAGDT4612ZHR	1 3/8"	7/8"	708	1417	868	205
TAGDT4614ZHR	1 3/8"	7/8"	708	1417	868	209

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAJN4517ZHR	25	Q <sub>o</sub>	1347	1704	2099	2528	2986	3469	3966	4473	4980
		P	830	935	1041	1149	1263	1383	1512	1653	1807
	32	Q <sub>o</sub>		1464	1836	2232	2650	3084	3530	3982	4434
		P		962	1082	1204	1329	1460	1599	1748	1910
	43	Q <sub>o</sub>			1413	1758	2112	2473	2840	3210	3583
		P			1126	1274	1423	1575	1733	1898	2074
TAJN4519ZHR	25	Q <sub>o</sub>	1754	2161	2609	3088	3588	4095	4597	5081	5534
		P	1121	1251	1394	1549	1718	1900	2095	2302	2523
	32	Q <sub>o</sub>		1882	2302	2744	3198	3656	4107	4541	4948
		P		1281	1436	1604	1786	1980	2187	2407	2639
	43	Q <sub>o</sub>			1802	2187	2574	2958	3334		
		P			1503	1691	1891	2105	2331		
TFHT4522ZHR	25	Q <sub>o</sub>	1594	2111	2701	3354	4050	4764	5457	6080	6571
		P	1103	1264	1421	1577	1737	1906	2090	2294	2523
	32	Q <sub>o</sub>	1322	1803	2344	2935	3564	4208	4839	5417	5894
		P	1084	1268	1446	1621	1796	1976	2166	2372	2599
	43	Q <sub>o</sub>			1757	2253	2777	3316	3855	4371	4838
		P			1432	1643	1849	2055	2263	2478	2705

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TFHT4524ZHR	25	Q <sub>o</sub>	1870	2446	3096	3805	4555	5322	6079	6794	7431
		P	1360	1540	1717	1895	2077	2265	2464	2676	2904
	32	Q <sub>o</sub>	1562	2103	2707	3361	4050	4755	5455	6125	6740
		P	1346	1550	1750	1947	2145	2347	2554	2771	2999
	43	Q <sub>o</sub>			2068	2636	3231	3842	4458	5065	5654
		P			1752	1987	2217	2444	2672	2902	3136
TFHT4531ZHR	25	Q <sub>o</sub>	2517	3234	4019	4863	5754	6677	7610	8534	9426
		P	1659	1872	2088	2311	2546	2799	3073	3372	3702
	32	Q <sub>o</sub>		2759	3494	4270	5080	5911	6749	7582	8397
		P		1874	2115	2361	2617	2887	3175	3486	3823
	43	Q <sub>o</sub>			2647	3317	3999	4690	5387	6088	
		P			2109	2397	2692	2996	3313	3648	
TFHT4540ZHR	25	Q <sub>o</sub>	3351	4233	5200	6237	7328	8451	9582	10696	11770
		P	2183	2451	2729	3024	3339	3679	4046	4444	4875
	32	Q <sub>o</sub>		3694	4599	5554	6547	7560	8577	9581	10558
		P		2491	2788	3096	3420	3765	4134	4530	4957
	43	Q <sub>o</sub>			3626	4456	5298	6146	6994	7837	8683
		P			2843	3180	3525	3885	4261	4660	5083
TAGT4546ZHR	25	Q <sub>o</sub>	3365	4450	5690	7065	8551	10119	11736	13370	14991
		P	2301	2640	2978	3322	3677	4049	4441	4857	5301
	32	Q <sub>o</sub>	2715	3728	4868	6120	7464	8877	10332	11806	13276
		P	2240	2622	2998	3375	3759	4156	4569	5003	5461
	43	Q <sub>o</sub>			3616	4674	5797	6969	8176	9406	10658
		P			2945	3387	3828	4273	4728	5197	5685
TAGT4553ZHR	25	Q <sub>o</sub>	3784	4973	6313	7781	9348	10983	12654	14334	16007
		P	2543	2935	3329	3735	4157	4603	5078	5584	6125
	32	Q <sub>o</sub>		4195	5430	6764	8174	9638	11130	12635	14146
		P		2905	3343	3787	4244	4721	5223	5753	6314
	43	Q <sub>o</sub>			4048	5185	6363	7569	8795	10041	11323
		P			3265	3784	4308	4845	5400	5977	6579
TAGT4561ZHR	25	Q <sub>o</sub>	4664	6025	7576	9293	11144	13083	15056	17003	18854
		P	2830	3231	3643	4078	4546	5056	5617	6235	6919
	32	Q <sub>o</sub>	3908	5184	6606	8159	9816	11542	13295	15026	16684
		P	2811	3258	3709	4175	4668	5196	5770	6397	7085
	43	Q <sub>o</sub>		3826	5071	6387	7761	9172	10596	12009	13390
		P		3189	3722	4257	4807	5381	5989	6640	7344
TAGT4568ZHR	25	Q <sub>o</sub>	5487	6943	8583	10385	12316	14329	16367	18360	20232
		P	3188	3616	4055	4519	5022	5578	6199	6902	7701
	32	Q <sub>o</sub>	4628	6012	7542	9199	10956	12776	14610	16404	18102
		P	3159	3646	4136	4646	5189	5779	6432	7163	7987
	43	Q <sub>o</sub>			5895	7321	8805	10323	11849	13356	
		P			4182	4793	5426	6096	6818	7607	

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAGT4573ZHR	25	Q <sub>o</sub>	5762	7385	9163	11070	13062	15093	17123	19130	21120
		P	3473	3965	4489	5055	5670	6339	7063	7845	8683
	32	Q <sub>o</sub>		6473	8133	9886	11699	13535	15366	17184	19013
		P		4002	4556	5148	5784	6469	7207	7999	8845
	43	Q <sub>o</sub>			6459	7969	9502	11038	12569	14112	15722
		P			4575	5211	5885	6602	7367	8181	9045
TAGT4581ZHR	25	Q <sub>o</sub>	6415	8089	9941	11938	14033	16169	18273	20263	22052
		P	4022	4583	5153	5744	6369	7041	7769	8566	9440
	32	Q <sub>o</sub>		7156	8893	10734	12642	14566	16444	18206	19785
		P		4626	5249	5884	6546	7247	7998	8812	9698
	43	Q <sub>o</sub>			7188	8789	10408	12009	135547	14981	
		P			5307	6032	6769	7531	8331	9182	
TAGDT4590ZHR	25	Q <sub>o</sub>	6620	8808	11325	14136	17183	20389	23655	26858	29857
		P	4156	4839	5518	6203	6907	7643	8424	9262	10173
	32	Q <sub>o</sub>	5372	7398	9700	12247	14997	17886	20832	23734	26478
		P	4032	4800	5556	6310	7074	7861	8684	9555	10489
	43	Q <sub>o</sub>			7224	9360	11645	14040	16493	18939	21320
		P			5449	6334	7214	8101	9008	9946	10929
TAGDT4610ZHR	25	Q <sub>o</sub>	7699	10129	12902	15971	19266	22694	26142	29472	32532
		P	4655	5430	6207	6999	7824	8695	9629	10643	11755
	32	Q <sub>o</sub>	6337	8605	11146	13926	16892	19973	23078	26101	28925
		P	4518	5385	6247	7119	8014	8946	9931	10985	12125
	43	Q <sub>o</sub>			8395	10749	13225	15783	18374	20941	23434
		P			6120	7140	8170	9222	10310	11447	12648
TAGDT4612ZHR	25	Q <sub>o</sub>	9045	11780	14897	18345	22036	25841	29582	33034	35926
		P	6022	6836	7667	8539	9477	10503	11640	12909	14332
	32	Q <sub>o</sub>	7594	10151	13015	16151	19497	22955	26390	29622	32438
		P	5966	6875	7786	8722	9707	10764	11917	13189	14602
	43	Q <sub>o</sub>			10032	12722	15563	18509	21486	24393	27114
		P			7799	8875	9971	11110	12316	13611	15021
TAGDT4614ZHR	25	Q <sub>o</sub>	10984	13888	17211	20891	24823	28843	32712	36103	38600
		P	6737	7593	8467	9385	10381	11492	12761	14243	16005
	32	Q <sub>o</sub>	9353	12087	15184	18594	22239	25993	29662	32979	35609
		P	6685	7651	8627	9632	10698	11860	13164	14662	16418
	43	Q <sub>o</sub>			11975	14955	18149	21490	24861	28094	30993
		P			8725	9928	11158	12445	13831	15366	17110
TAGDT4615ZHR	25	Q <sub>o</sub>	12064	15508	19246	23213	27316	31460	35593	39738	44035
		P	7285	8232	9249	10358	11575	12908	14357	15916	17572
	32	Q <sub>o</sub>	10295	13597	17101	20765	24516	28292	32071	35915	40002
		P	7318	8348	9429	10589	11844	13205	14672	16243	17904
	43	Q <sub>o</sub>			13577	16761	19971	23187	26441	29850	33660
		P			9520	10772	12102	13521	15034	16640	18330

t<sub>e</sub>: evaporating temperature [°C]  
t<sub>c</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

**Condensing units  
Tecumseh / L'Unite**

R134a, HBP, 230 V

Tecumseh / L'Unite condensing temperature 32°C, ambient temperature and gas return temperature 20 °C.

Voltage: 220 - 240 V / 50 Hz

Code	Type	Air flow [m3/h]	Receiver volume [l]	Acoustic power [dB(A)]
47-32CAJN4461YHR	CAJN4461YHR	550	1,5	58
47-32CAJN4476YHR	CAJN4476YHR	1130	1,5	69
47-32CAJN4492YHR	CAJN4492YHR	900	2,35	63
47-32CAJN4511YHR	CAJN4411YHR	900	2,35	64
47-32CAJN4513YHR	CAJN4513YHR	1700	2,35	70
47-32FHT4518YHR	FHT4518YHR	1650	1,5	71

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
CAJN4461YHR	1/2"	1/4"	345	511	304	30
CAJN4476YHR	1/2"	3/8"	430	490	340	31
CAJN4492YHR	1/2"	3/8"	432	487	340	30
CAJN4411YHR	5/8"	3/8"	432	487	340	31
CAJN4513YHR	5/8"	3/8"	513	608	436	43
FHT4518YHR	5/8"	3-Aug	513	607	436	52

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
CAJN4461YHR	25	Q <sub>o</sub>	392	514	655	815	991	1178	1374	1573	1769
		P	331	374	425	482	546	617	696	781	873
	32	Q <sub>o</sub>		462	592	737	894	1062	1235	1410	
		P		375	431	494	564	641	725	816	
	43	Q <sub>o</sub>			493	615	745	881			
		P			441	513	592	677			
CAJN4476YHR	25	Q <sub>o</sub>	479	653	845	1082	1337	1616	1918	2239	2575
		P	465	519	573	628	687	751	824	907	1003
	32	Q <sub>o</sub>		564	753	965	1200	1457	1733	2025	2329
		P		517	579	642	709	782	863	955	1061
	43	Q <sub>o</sub>			587	775	980	1201	1437	1684	
		P			572	652	735	824	921	1029	
CAJN4492YHR	25	Q <sub>o</sub>	600	812	1057	1336	1646	1984	2343	2717	3097
		P	466	525	590	663	742	828	920	1019	1125
	32	Q <sub>o</sub>	505	709	940	1199	1485	1794	2121	2460	2803
		P	437	508	586	671	762	860	964	1075	1193
	43	Q <sub>o</sub>			744	976	1227	1494	1773	2060	
		P			580	683	794	911	1034	1164	
CAJN4511YHR	25	Q <sub>o</sub>	794	1048	1336	1653	1996	2357	2729	3101	3463
		P	539	609	690	784	890	1008	1138	1280	1434
	32	Q <sub>o</sub>		935	1205	1500	1813	2141	2474	2803	
		P		595	690	796	915	1046	1188	1343	
	43	Q <sub>o</sub>			990	1250	1520	1796			
		P			688	815	954	1105			



Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
CAJN4513YHR	25	Q <sub>o</sub>	895	1193	1541	1941	2392	2894	3445	4039	4671
		P	634	711	788	869	956	1053	1161	1285	1427
	32	Q <sub>o</sub>	785	1072	1401	1775	2194	2658	3165	3711	4291
		P	639	729	817	907	1002	1105	1220	1349	1496
	43	Q <sub>o</sub>			1173	1509	1880	2287	2728	3200	3700
		P			846	956	1068	1186	1315	1456	1615
FHT4518YHR	25	Q <sub>o</sub>	973	1411	1933	2543	3243	4027	4886	5801	6746
		P	817	938	1062	1192	1330	1479	1646	1835	2054
	32	Q <sub>o</sub>	777	1194	1687	2260	2915	3648	4453	5313	6206
		P	803	938	1079	1225	1379	1544	1724	1925	2153
	43	Q <sub>o</sub>			1265	1774	2354	3006	3725	4502	5319
		P			1064	1237	1419	1611	1816	2039	2284

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Condensing units Tecumseh / L'Unite

### R134a, HBP, 400 V

Tecumseh / L'Unite condensing temperature 32°C, ambient temperature and gas return temperature 20 °C.

**Voltage:** 380 - 420 V / 50 Hz

Code	Type	Air flow [m3/h]	Receiver volume [l]	Acoustic power [dB(A)]
47-32TAJN4492YHR	TAJN4492YHR	900	2,35	62
47-32TAJN4511YHR	TAJN4511YHR	900	2,35	63
47-32TFHT4518YHR	TFHT4518YHR	1650	1,5	71
47-32TFHT4525YHR	TFHT4525YHR	1650	1,5	74
47-32TAGT4534YHR	TAGT4534YHR	3670	2,35	83

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
TAJN4492YHR	1/2"	3/8"	432	487	340	33
TAJN4511YHR	5/8"	3/8"	432	487	340	33
TFHT4518YHR	5/8"	3/8"	512	607	436	52
TFHT4525YHR	5/8"	3/8"	512	607	436	53
TAGT4534YHR	7/8"	3/8"	591	607	540	75

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAJN4492YHR	25	Q <sub>o</sub>	532	771	1036	1330	1649	1991	2350	2719	3090
		P	370	429	488	548	612	680	755	838	932
	32	Q <sub>o</sub>	421	657	914	1193	1492	1809	2139	2476	2810
		P	363	432	500	568	639	714	795	885	985
	43	Q <sub>o</sub>			713	968	1236	1514	1798	2083	
		P			503	586	671	759	852	953	

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
TAJN4511YHR	25	Q <sub>o</sub>	752	1014	1307	1628	1973	2336	2709	3084	3449
		P	517	599	686	781	886	1004	1137	1289	1463
	32	Q <sub>o</sub>		899	1175	1472	1787	2115	2447	2776	
		P		608	704	808	921	1048	1191	1352	
	43	Q <sub>o</sub>			968	1228	1496	1768			
		P			720	839	968	1111			
TFHT4518YHR	25	Q <sub>o</sub>	975	1412	1936	2551	3258	4053	4924	5853	6809
		P	819	942	1071	1206	1347	1499	1665	1851	2063
	32	Q <sub>o</sub>	798	1211	1701	2274	2931	3670	4481	5348	6248
		P	812	944	1084	1233	1391	1559	1741	1940	2163
	43	Q <sub>o</sub>			1309	1809	2382	3029	3745	4519	5333
		P			1078	1246	1426	1618	1824	2046	2288
TFHT4525YHR	25	Q <sub>o</sub>	1579	2128	2779	3531	4377	5303	6285	7290	8271
		P	1045	1197	1368	1556	1764	1994	2250	2538	2865
	32	Q <sub>o</sub>		1814	2410	3101	3884	4750	5681	6649	7618
		P		1208	1383	1579	1797	2037	2302	2597	2928
	43	Q <sub>o</sub>			1869	2467	3153	3924	4773	5683	
		P			1402	1605	1833	2086	2365	2672	
TAGT4534YHR	25	Q <sub>o</sub>	1714	2356	3241	4317	5542	6872	8264	9677	11078
		P	1019	1340	1633	1910	2182	2464	2772	3119	3519
	32	Q <sub>o</sub>		2058	2846	3820	4937	6157	7440	8751	10058
		P		1333	1640	1938	2238	2554	2899	3286	3725
	43	Q <sub>o</sub>			2221	3035	3984	5033	6147	7298	
		P			1651	1982	2326	2694	3098	3547	

### Condensing units Tecumseh / L'Unite Silensys

R134a, HBP, 230 V

Tecumseh / L'Unite condensing temperature 32°C, ambient temperature and gas return temperature 20 °C.

Voltage: 220 - 240 V / 50 Hz

Code	Type	Air flow [m <sup>3</sup> /h]	Receiver volume [l]	Acoustic power [dB(A)]
47-32SILAJ4511YFZ	SILAJ4511YFZ	1650	1,5	61

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
SILAJ4511YFZ	5/8"	3/8"	942	624	837	69

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
SILAJ4511YFZ	25	Q <sub>o</sub>	851	1134	1465	1844	2271	2744	3262	3820	4413
		P	605	655	716	788	871	964	1068	1183	1308
	32	Q <sub>o</sub>	743	1015	1327	1679	2073	2507	2980	3486	4023
		P	592	653	726	809	903	1007	1123	1249	1386
	43	Q <sub>o</sub>		813	1097	1410	1754	2128	2530	2958	3408
		P		650	741	841	953	1075	1209	1352	1507

## Condensing units Tecumseh / L'Unite Silensys

R134a, HBP, 400 V

Tecumseh / L'Unite condensing temperature 32°C, ambient temperature and gas return temperature 20 °C.

**Voltage:** 380 - 420 V / 50 Hz

Code	Type	Air flow [m <sup>3</sup> /h]	Receiver volume [l]	Acoustic power [dB(A)]
47-32SILAJ4461YTZ	SILAJ4461YTZ	1650	1,5	59
47-32SILAJ4492YTZ	SILAJ4492YTZ	1650	1,5	60
47-32SILAJ4511YTZ	SILAJ4511YTZ	1650	1,5	61
47-32SILFH4518YTZ	SILFH4518YTZ	2700	2,35	65
47-32SILFH4525YTZ	SILFH4525YTZ	2700	2,35	70

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
SILAJ4461YTZ	1/2"	1/4"	942	624	837	66
SILAJ4492YTZ	1/2"	3/8"	942	624	837	68
SILAJ4511YTZ	5/8"	3/8"	942	624	837	69
SILFH4518YTZ	5/8"	3/8"	1174	624	837	81
SILFH4525YTZ	5/8"	3/8"	1174	624	837	81

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
SILAJ4461YTZ	25	Q <sub>o</sub>	461	612	796	1017	1279	1586	1941	2347	
		P	365	396	429	465	502	542	583	627	
	32	Q <sub>o</sub>	409	551	721	924	1162	1441	1762	2131	
		P	362	399	438	479	522	568	616	665	
	43	Q <sub>o</sub>		450	599	773	976	1211	1481	1790	
		P		402	451	501	554	609	666	726	
SILAJ4492YTZ	25	Q <sub>o</sub>	559	817	1108	1439	1810	2225	2684	3187	3732
		P	439	479	522	567	615	667	720	777	836
	32	Q <sub>o</sub>	449	702	984	1297	1645	2030	2452	2910	3404
		P	423	473	526	582	641	702	766	833	903
	43	Q <sub>o</sub>		511	773	1056	1364	1699	2060	2446	2858
		P		465	534	606	681	758	839	922	1008
SILAJ4511YTZ	25	Q <sub>o</sub>	807	1097	1428	1804	2223	2684	3184	3718	4281
		P	588	642	706	781	866	962	1068	1184	1310
	32	Q <sub>o</sub>	695	974	1289	1641	2030	2455	2913	3401	3912
		P	584	649	724	810	905	1011	1128	1255	1392
	43	Q <sub>o</sub>			1064	1377	1717	2084	2477	2891	3321
		P			753	855	967	1090	1223	1366	1520
SILFH4518YTZ	25	Q <sub>o</sub>	971	1392	1893	2477	3145	3898	4731	5640	6617
		P	855	979	1111	1251	1401	1562	1736	1926	2133
	32	Q <sub>o</sub>	799	1203	1676	2223	2846	3544	4315	5155	6056
		P	848	979	1121	1273	1435	1610	1799	2004	2227
	43	Q <sub>o</sub>			1318	1803	2351	2962	3634	4364	5147
		P			1115	1282	1463	1658	1868	2096	2343

Type	Ambient tem. [°C]	Capacity/ Input	Evaporating temperature [°C] EN13215 / cooling capacity [W]								
			-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0	15,0
SILFH4525YTZ	25	Q <sub>o</sub>	1575	2107	2735	3463	4292	5225	6262	7404	8654
		P	1081	1235	1407	1599	1812	2048	2307	2593	2908
	32	Q <sub>o</sub>		1812	2392	3062	3825	4682	5635	6686	7836
		P		1244	1421	1619	1840	2084	2354	2651	2977
	43	Q <sub>o</sub>			1888	2470	3131	3872	4696	5605	4413
		P			1437	1642	1871	2128	2411	2724	1308

### Condensing units Tecumseh / L'Unite Silensys inverter

R-404A, HBP, 400 V

Tecumseh / L'Unite EN13215, Ambient temperature 32°C, superheating 10K, subcooling 3K.

Voltage: 380 - 420 V / 50 Hz

Code	Type	Fan [Nr x Ø mm]	Receiver volume [l]	Acoustic power [dB(A)]
47-32SILFHV4524Z	SILFHV4524Z	1 x 450	2,35	37
47-32SILFHV4531Z	SILFHV4531Z	1 x 450	3,9	41
47-32SILFHV4540Z	SILFHV4540Z	1 x 450	3,9	39
47-32SILAGV4546Z	SILAGV4546Z	2 x 450	6,0	37

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
SILFHV4524Z	5/8"	1/2"	575	1145	690	86
SILFHV4531Z	7/8"	1/2"	575	1145	690	92
SILFHV4540Z	7/8"	1/2"	575	1145	690	92
SILAGV4546Z	7/8"	5/8"	575	1145	1315	133

Type	Ambient tem. [°C]	Frequency [Hz]	Cooling capacity (W) / Evaporating temperature (°C) / EN 13215						
			-20	-15	-10	-5	0	5	10
SILFHV4524Z	32	30	1122	1495	1925	2411	2953	3554	4216
		60	2036	2680	3400	4203	5095	6087	7192
	43	30	766	1084	1450	1863	2325	2837	3403
		60	1396	1943	2553	3231	3986	4827	5771
SILFHV4531Z	32	30	1506	1957	2466	3036	3672	4378	5163
		60	2706	3465	4295	5212	6234	7383	8687
	43	30	1079	1474	1916	2410	2957	3566	4245
		60	1944	2606	3323	4110	4985	5971	7099
SILFHV4540Z	32	30	1828	2356	2941	3587	4293	5066	5913
		60	3240	4095	5005	5992	7082	8308	9708
	43	30	1417	1890	2415	2992	3625	4317	5079
		60	2518	3282	4098	4987	5976	7099	8398
SILAGV4546Z	32	30	2011	2694	3485	4381	5381	6486	7700
		60	3634	4801	6110	7554	9130	10839	12690
	43	30	1352	1918	2580	3336	4186	5132	6181
		60	2458	3428	4527	5748	7089	8551	10149

## Condensing units Tecumseh / L'Unite Silensys inverter

R-134a, HBP, 400 V

Tecumseh / L'Unite EN13215, Ambient temperature 32°C, superheating 10K, subcooling 3K.

**Voltage:** 380 - 420 V / 50 Hz

Code	Type	Fan [Nr x Ø mm]	Receiver volume [l]	Acoustic power [dB(A)]
47-32SILFHV4518Y	SILFHV4518Y	1 x 450	2,35	34
47-32SILFHV4525Y	SILFHV4525Y	1 x 450	2,35	36
47-32SILAGV4534Y	SILAGV4534Y	2 x 450	6,00	39

Type	Connection		Diameters [mm]			Weight [kg]
	suction	discharge	width	length	height	
SILFHV4518Y	5/8"	1/2"	575	1145	690	82
SILFHV4525Y	5/8"	1/2"	575	1145	690	86
SILAGV4534Y	7/8"	3/8"	575	1145	690	133

Type	Ambient tem. [°C]	Frequency [Hz]	Cooling capacity (W) / Evaporating temperature (°C) / EN 13215						
			-20	-15	-10	-5	0	5	10
SILFHV4518Y	32	30	772	1045	1377	1771	2233	2769	3384
		60	1425	1913	2495	3179	3974	4889	5938
	43	30	351	622	940	1308	1732	2218	2771
		60	656	1148	1712	2356	3088	3918	4859
SILFHV4525Y	32	30	1085	1446	1863	2341	2885	3502	4198
		60	1982	2617	3335	4143	5050	6066	7204
	43	30	722	1051	1430	1864	2357	2917	3553
		60	1328	1911	2566	3299	4120	5040	-
SILAGV4534Y	32	30	1188	1693	2311	3049	3916	4921	6076
		60	2203	3116	4213	5509	7018	8756	10744
	43	30	851	1248	1748	2361	3094	3958	4965
		60	1584	2306	3196	4268	5536	7020	8739

**Compressors  
Bristol**

R407C, 400 V

Voltage: 380 - 420 V / 50 Hz

ROT: Rotalock valves

PAJ: Soldering connection

Code	Type	Swept volume [cm <sup>3</sup> ]	Displacement [m <sup>3</sup> /hour]	Weight [kg]
47-32B-H79B22UDBVA-PAJ	H79B22UDBV	42,4	7,5	27
47-32B-H71J233DBVA-PAJ	H71J233DBV	42,8	7,6	32,2
47-32B-H71J323DBVA-PAJ	H71J323DBV	53,1	9,4	32,8
47-32B-H71J383DBVA-PAJ	H71J383DBV	63,6	11,3	32,7
47-32B-H73A423DBEA-PAJ	H73A423DBE	73,8	13,1	33,6
47-32B-H73A463DBEA-ROT	H73A463DBE	80,7	14,3	33,6
47-32B-H73A543DBEA-ROT	H73A543DBE	92,7	16,4	36,1
47-32B-H73A623DBEA-ROT	H73A623DBE	103,4	18,3	37,7
47-32B-H73A623DBEA-PAJ	H73A623DBE	103,4	18,3	37,7
47-32B-H79A623DBVA	H79A623DBV	101,3	17,9	47,6
47-32B-H79A723DBVA-ROT	H79A723DBV	117,2	20,7	47,6
47-32B-H79A723DBVA	H79A723DBV	117,2	20,7	47,6
47-32B-H7BG094DBEE-ROT	H7BG094DBE	69,9		58,1
47-32B-H7BG104DBEE-ROT	H7BG104DBE	81,7		65,3
47-32B-H7BG124DBEE-ROT	H7BG124DBE	93,3		66,2
47-32B-H75G144DBEE-ROT	H75G144DBE	112,5		75,8
47-32B-H7NG184DPEF-ROT	H7NG184DPE	144,8		109,3
47-32B-H7NG204DREF-ROT	H7NG204DRE	166,3		112,5
47-32B-H7NG244DREF-ROT	H7NG244DRE	195,2		116,6
47-32B-H7NG294DPEF-ROT	H7NG294DPE	222,4		121,6



Type	Connection			Height [mm]	Width [mm]	Lenght [mm]
	type	suction	discharge			
H79B22UDBV	solder	5/8"	3/8"	343	184	427
H71J233DBV	solder	3/4"	1/2"	394		
H71J323DBV	solder	3/4"	1/2"	400		
H71J383DBV	solder	3/4"	1/2"	407		
H73A423DBE	solder	3/4"	1/2"	378	241	259
H73A463DBE	rotalock	1 1/4" - 12 UNF	1" - 14 UNS	378	241	259
H73A543DBE	rotalock	1 1/4" - 12 UNF	1" - 14 UNS	416	241	259
H73A623DBE	rotalock	1 1/4" - 12 UNF	1" - 14 UNS	416	241	259
H73A623DBE				416	241	259
H79A623DBV				448	266	277
H79A723DBV	rotalock	1 1/4" - 12 UNF	1" - 14 UNS	448	266	277
H79A723DBV				448	266	277

Type	Connection			Height [mm]	Width [mm]	Lenght [mm]
	type	suction	discharge			
H7BG094DBE	rotalock	1 3/4"	1 1/4"	455		
H7BG104DBE	rotalock	1 3/4"	1 1/4"	448		
H7BG124DBE	rotalock	1 3/4"	1 1/4"	448		
H75G144DBE	rotalock	1 3/4"	1 1/4"	535		
H7NG184DPE	rotalock	1 3/4"	1 1/4"	574		
H7NG204DRE	rotalock	1 3/4"	1 1/4"	569		
H7NG244DRE	rotalock	1 3/4"	1 1/4"	574		
H7NG294DPE	rotalock	1 3/4"	1 1/4"	569		

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [W]													
		-20,0		-15,0		-10,0		-5,0		0		5,0		10,0	
	Capacity / Input	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
H79B22 UDBV	30	1918	876	2595	985	3524	1077	4779	1163	6434	1254	8560	1363	11232	1502
	40	1380	834	2114	1036	2891	1186	3784	1296	4865	1378	6209	1443	7887	1502
	50			682	772	1855	1085	2933	1323	3990	1498	5098	1622	6332	1706
H71J233 DBVA	30	1897	929	2723	1009	3766	1073	5026	1124	6509	1168	8216	1208	10151	1250
	40	1348	969	2184	1130	3160	1257	4277	1355	5538	1428	6947	1480	8407	1516
	50			1648	1146	2573	1347	3563	1500	4621	1611	5749	1685	6951	1726
H71J323 DBVA	30	2305	1148	3353	1315	4579	1442	6047	1523	7819	1550	9957	1515	12523	1411
	40	1665	1108	2658	1318	3781	1503	5095	1656	6664	1770	8548	1835	10811	1845
	50			1914	1296	2944	1528	4117	1742	5493	1930	7136	2086	9107	2200
H71J383 DBV	30	3204	1373	4586	1488	6133	1556	7895	1597	9921	1630	12259	1677	14958	1759
	40	2569	1412	3737	1681	5081	1874	6647	2011	8487	2111	10648	2197	13181	2286
	50			3093	1544	4164	1909	5468	2189	7054	2403	8970	2572	11267	2717
H73A423 DBE	30	3025	1296	4188	1488	5672	1690	7523	1900	9788	2112	12513	2324	14746	2533
	40	2379	1331	3427	1564	4752	1809	6401	2062	8419	2319	10854	2578	13752	2833
	50	1821	1370	2706	1646	3823	1936	5220	2234	6942	2538	9037	2844	11551	3149
H73A463 DBE	30	3304	1469	4554	1670	6153	1872	8160	2068	10633	2244	13632	2393	17214	2502
	40	2607	1503	3731	1754	5160	2034	6953	2333	9170	2639	11868	2944	15106	3236
	50	2046	1558	2979	1798	4173	2093	5689	2433	7583	2807	9916	3206	12746	3620
H73A543 DBE	30	4067	1766	5661	2020	7687	2277	10173	2511	13145	2692	16632	2794	20661	2788
	40	3456	1762	4558	2066	6340	2417	8530	2787	11156	3149	14245	3475	17825	3737
	50	2426	1832	3597	2090	5098	2440	6956	2852	9198	3300	11852	3755	14946	4190
H73A623 DBE	30	4616	1965	6541	2282	9032	2629	12080	2955	15676	3213	19811	3354	24478	3329
	40	3563	1972	5182	2319	7253	2737	9766	3178	12719	3592	16086	3932	19875	4148
	50	2748	2078	4220	2382	6029	2800	8166	3283	10623	3783	13392	429	16464	4635
H79A623 DBV	30	4370	1839	6381	2152	8869	2451	11783	2699	15070	2860	18678	2897	22557	2773
	40	3327	1869	4955	2208	7077	2565	9642	2901	12597	3180	15892	3366	19473	3421
	50	2515	1852	3758	2222	5513	2639	7728	3066	10352	3467	13331	3804	16615	4041
H79A723 DBV	30	5103	2208	7221	2556	9773	2888	12695	3172	15919	3380	19382	3479	23017	3439
	40	4035	2250	6026	2690	8512	3135	11427	3553	14706	3913	18283	4184	22093	4337
	50	2903	2198	4540	2724	6731	3275	9413	3818	12518	4324	15982	4762	19738	5100

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [W]													
		-20,0		-15,0		-10,0		-5,0		0		5,0		10,0	
	Capacity / Input	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
H7BG094 DBE	30			10200	3303	13966	3583	19024	3787	25755	3925	34544	4011	45773	4055
	40			7549	3503	10749	4190	14719	4761	19841	5229	26500	5604	35078	2898
	50			4391	2919	7636	3960	11128	4847	15252	5590	20392	6201	26929	6693
H7BG104 DBE	30			12093	3914	16455	4238	22218	4462	29779	4600	39538	4665	51891	4670
	40			9415	4252	13061	5031	17498	5669	23125	6177	30339	6570	39539	6861
	50			6128	3732	9878	4911	13810	5907	18323	6730	23813	7395	30680	7916
H7BG124 DBE	30			15035	4750	19806	5079	26190	5311	34758	5492	46080	5668	60727	5884
	40			11919	5217	15868	6083	20706	6791	27002	7388	35329	7921	46255	8434
	50			8296	4744	12336	6061	16539	7161	21467	8090	27717	8893	35834	9618
H75G144 DBE	30			18569	5671	23949	6078	31297	6417	41791	6797	56608	7327	76927	8118
	40			15010	6191	19264	7121	24274	7882	31220	8583	41277	9335	55624	10246
	50			11201	5825	15990	7218	20324	8341	25381	9304	32340	10216	42377	11186
H7NG184 DPE	30			21941	6755	29716	7581	39543	8154	52099	8420	68060	8322	88103	7807
	40			16286	6920	23009	8393	31161	9652	41419	10643	54460	11311	70960	11601
	50			9168	5810	15535	7825	22710	9667	31368	11280	42186	12610	55840	13601
H7NG204 DRE	30			24990	8112	33360	8780	44194	9190	58387	9408	76837	9500	100440	9533
	40			18739	8472	26312	10095	35492	11381	47175	12396	62656	13207	81633	13881
	50			11155	7206	18486	9656	26566	11690	36291	13375	48557	14778	64262	15964
H7NG244 DRE	30			30608	9707	39980	10220	52345	10581	68897	10976	90828	11589	119330	12603
	40			24828	10961	32679	12489	42157	13690	54453	14750	70760	15852	92270	17180
	50			17510	10197	25647	12636	34042	14574	43887	16195	56375	17682	72699	19222
H7NG294 DPE	30			35314	12321	45971	13749	59840	15194	77855	16721	100950	18394	130059	20278
	40			29087	12853	37780	14689	48394	16419	61854	18107	79094	19818	101049	21617
	50			22019	12480	30707	15008	40007	13306	50853	19438	64180	21471	80921	23469

t<sub>o</sub>: evaporating temperature [°C]

t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]

P: power input [W]



## Compressors Bristol

R407A, LBP, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Swept volume [cm <sup>3</sup> ]	Displacement [m <sup>3</sup> /hour]	Weight [kg]
47-32B-L63B562DBVB	L63B562DBV	34,6	7,3	25
47-32B-L63B652DBVB	L63B652DBV	41,4	7,2	25,4
47-32B-L63B752DBVB	L63B752DBV	45,5	7,9	25,4
47-32B-L63A113DBEA	L63A113DBE	64,5	11,4	32,2
47-32B-L63A183DBEA	L63A183DBE	98,8	17,5	33,6

Type	Connection - solder		Diameters [mm]		
	suction	discharge	height	width	length
L63B562DBV	3/8"	5/8"	327	183	246
L63B652DBV	3/8"	5/8"	327	183	246
L63B752DBV	3/8"	5/8"	327	183	246
L63A113DBE	1/2"	3/4"	376	241	259
L63A183DBE	1/2"	3/4"	378	241	259

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [W]													
		-40,0		-35,0		-30,0		-25,0		-20,0		-15,0		-10,0	
	Capacity / Input	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
L63B562DBV	30	343	540	617	662	970	790	1411	921	1946	1049	2584	1171	3333	1284
	40	165	471	396	609	691	755	1057	910	1503	1068	2036	1224	2664	1376
	50			164	528	406	690	704	864	1066	1046	1499	1231	2014	1417
L63B652DBV	30	473	595	772	804	1253	986	1874	1153	2595	1317	3375	1488	4172	1677
	40	228	452	442	723	832	956	1359	1163	1981	1355	2657	1542	3346	1736
	50			111	523	414	833	849	1104	1374	1349	1949	1578	2533	1802
L63B752DBV	30	610	776	981	918	1449	1077	2028	1239	2734	1389	3584	1512	4594	1592
	40	353	697	659	852	1048	1033	1536	1225	2140	1414	2875	1584	3758	1720
	50			374	763	679	955	1072	1166	1568	1383	2183	1589	2933	1771
L63A113DBE	30	944	877	1477	1093	2172	1332	3022	1576	4022	1906	5464	2006	6443	2458
	40	595	788	1002	1020	1565	1283	2278	1562	3134	1838	4128	2094	5252	2312
	50			587	904	988	1176	1532	1474	2214	1779	3027	2074	3965	2341
L63A183DBE	30	1735	1474	2576	1827	3639	2166	4927	2488	6441	2790	8189	3069	10155	3323
	40			1793	1730	2713	2121	3830	2509	5145	2893	6659	3268	8375	3633
	50					1786	1938	2725	2401	3834	2874	5115	3353	6569	3836

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Compressors Bristol

R404A, LBP, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Type	Swept volume [cm <sup>3</sup> ]	Displacement [m <sup>3</sup> /hour]	Connection	
				suction	discharge
47-32B-R92J223DBVA	R92J223DBV	41,6	7,5	1 1/4"	1"
47-32B-R92J273DBVA	R92J273DBV	47,8	8,3	1 1/4"	1"
47-32B-R92J343DBVA	R92J343DBV	57,9	10,1	1 1/4"	1"
47-32B-R92J383DBVA	R92J383DBV	63,4	11,2	1 1/4"	1"
47-32B-R92J433DBVA	R92J433DBV	70,6	12,3	1 1/4"	1"

Type	Diameters [mm]			Weight [kg]
	height	width	length	
R92J223DBV	356	184	247	32,2
R92J273DBV	401			32,2
R92J343DBV	401			32,4
R92J383DBV	407			32,7
R92J433DBV	407			35,8

Type	Cond. tem. [°C]	Evaporating temperature [°C] / cooling capacity [W]																	
		-30,0		-25,0		-20,0		-15,0		-10,0		-5,0		0		5,0		10,0	
	Capacity / Input	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P	Q <sub>o</sub>	P
R92J223DBV	30	775	673	857	732	1317	824	2105	932	3175	1043	4479	1141	5970	1211	7600	1238	9322	1207
	40			778	716	964	813	1515	939	2381	1081	3516	1222	4873	1349	6403	1445	8059	1496
	50					819	758	1083	900	1697	1070	2615	1253	3789	1433	5171	1596	6714	1727
R92J273DBV	30			1064	783	1846	891	2762	1027	3848	1168	5135	1286	6660	1358	8485	1358	10553	1260
	40					1138	860	2046	1017	3073	1194	4254	1366	5622	1508	7211	1594	9055	1600
	50							1346	1019	2310	1222	3378	1436	4584	1637	5962	1799	7545	1897
R92J343DBV	30	762	852	1539	1047	2482	1223	3616	1377	4962	1502	6554	1594	8408	1648	10551	1659	13007	1622
	40	189	728	920	978	1786	1214	2813	1430	4024	1622	5444	1784	7098	1911	9011	1999	11207	2042
	50	-334	525	357	835	1153	1134	2078	1418	3157	1680	4415	1916	5876	2121	7564	2290	9505	2419
R92J383DBV	30	1333	984	2201	1175	3208	1353	4399	1512	5818	1647	7510	1751	9519	1819	11890	1844	14666	1820
	40	839	969	1650	1187	2567	1401	3636	1606	4900	1796	6405	1964	8194	2104	10312	2211	12803	2279
	50	329	908	1081	1152	1907	1403	2852	1652	3960	1896	5276	2126	6843	2339	8707	2527	10912	2685
R92J433DBV	30	1487	1077	2516	1388	3673	1633	5007	1820	6566	1955	8397	2046	10550	2101	13072	2101	16012	2131
	40	704	982	1689	1333	2768	1625	3988	1865	5399	2062	7047	2223	8982	2354	11251	2464	13902	2560
	50	-25	771	919	1185	1921	1548	3030	1867	4294	2150	5762	2402	7480	2637	9498	2855	11864	3067

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Accessories for Bristol compressors

Code	Description
47-32B-H100	sight glass adapter for tandem version of Bristol compressors, outlet: 1" SAE
47-32B-H114	sight glass adapter for tandem version of Bristol compressors, outlet: 1 1/4" SAE

## Compressors Dorin H family

R404A / R-507, LBP / HBP, 400 V

**Voltage:** 380 - 420 V / 50 Hz

CC - HBP application

CS / SB - LBP application

Code	Type	Displ. [m <sup>3</sup> /h]	Number of cylinders	Oil charge [kg]	Connection [mm]		Weight [kg]
					suction	discharge	
47-32H40CC-E	H 40 CC - E	2,89	2	1,0	12s	12s	35
47-32H50CS-E	H 50 CS - E	3,86	2	1,0	12s	12s	35
47-32H75CC-E	H 75 CC - E	3,86	2	1,0	12s	12s	36
47-32H75CS-E	H 75 CS - E	5,30	2	1,0	16s	12s	36
47-32H100CC-E	H 100 CC - E	5,30	2	1,0	16s	12s	37
47-32H100CS-E	H 100 CS - E	6,75	2	1,0	16s	12s	37
47-32H150CC-E	H 150 CC - E	6,75	2	1,0	16s	12s	38
47-32H150CS-E	H 150 CS - E	7,71	2	1,0	16s	12s	38
47-32H180CC-E	H 180 CC - E	7,71	2	1,0	16s	12s	39
47-32H180CS-E	H 180 CS - E	8,47	2	1,0	16s	12s	39
47-32H201CC-E	H 201 CC - E	9,16	2	1,0	16s	12s	40
47-32H201CS-E	H 201 CS - E	9,88	2	1,0	18s	16s	40
47-32H220CC-E	H 220 CC - E	9,88	2	1,0	18s	16s	41
47-32H220CS-E	H 220 CS - E	10,85	2	1,0	18s	16s	41
47-32H250CC-E	H 250 CC - E	10,85	2	1,0	18s	16s	41
47-32H250CS-E	H 250 CS - E	12,17	2	1,0	18s	16s	41
47-32H280CC-E	H 280 CC - E	12,17	2	1,0	18s	16s	44
47-32H280CS-E	H 280 CS - E	13,23	2	1,0	18s	16s	44
47-32H280SB-E	H 280 SB - E	13,23	2	1,0	18s	16s	54
47-32H290CS-E	H 290 CS - E	14,74	2	1,4	22s	16s	54
47-32H300CC-E	H 300 CC - E	14,74	2	1,4	22s	16s	54
47-32H300CS-E	H 300 CS - E	15,94	2	1,4	28s	16s	54
47-32H350CC-E	H 350 CC - E	15,94	2	1,4	28s	16s	54
47-32H350SB-E	H 350 SB - E	17,53	2	1,4	28s	16s	54
47-32H380CC-E	H 380 CC - E	17,53	2	1,4	28s	16s	56
47-32H380SB-E	H 380 SB - E	19,53	2	1,4	28s	16s	56
47-32H390CS-E	H 390 CS - E	19,53	2	1,4	28s	16s	56
47-32H392CS-E	H 392 CS - E	23,31	2	1,4	28s	16s	56
47-32H401CS-E	H 401 CS - E	19,29	4	2,0	22s	18s	89
47-32H403CC-E	H 403 CC - E	19,98	2	2,0	28s	16s	75
47-32H403CS-E	H 403 CS - E	22,83	2	2,0	28s	16s	76
47-32H451CC-E	H 451 CC - E	19,29	4	2,0	22s	18s	91
47-32H451CS-E	H 451 CS - E	23,13	4	2,0	28s	18s	89
47-32H503CC-E	H 503 CC - E	22,83	2	2,0	28s	16s	79
47-32H503CS-E	H 503 CS - E	26,44	2	2,0	35s	16s	80
47-32H551CC-E	H 551 CC - E	23,13	4	2,0	28s	18s	91
47-32H551CS-E	H 551 CS - E	27,33	4	2,0	28s	22s	91
47-32H701CC-E	H 701 CC - E	27,33	4	2,0	28s	22s	91
47-32H701CS-E	H 701 CS - E	31,88	4	2,0	28s	22s	91
47-32H743CC-E	H 743 CC - E	26,44	2	2,0	35s	16s	81

Code	Type	Displ. [m³/h]	Number of cylinders	Oil charge [kg]	Connection [mm]		Weight [kg]
					suction	discharge	
47-32H750CS-E	H 750 CS - E	38,64	4	2,0	35s	22s	91
47-32H751CC-E	H 751 CC - E	31,88	4	2,0	28s	22s	91
47-32H751CS-E	H 751 CS - E	38,06	4	2,0	35s	22s	91
47-32H801CS-E	H 801 CS - E	43,73	4	2,0	35s	22s	91
47-32H851CS-E	H 851 CS - E	42,81	4	2,5	35s	28s	125
47-32H1001CS-E	H 1001 CS - E	48,82	4	2,5	35s	28s	127
47-32H1002CC-E	H 1002 CC - E	38,06	4	2,0	35s	22s	101
47-32H1003CC-E	H 1003 CC - E	43,73	4	2,0	35s	22s	101
47-32H1201CC-E	H 1201 CC - E	42,81	4	2,5	35s	28s	130
47-32H1500CC-E	H 1500 CC - E	48,82	4	2,5	42s	28s	131
47-32H1501CC-E	H 1501 CC - E	48,82	4	2,5	42s	28s	131
47-32H1501CS-E	H 1501 CS - E	56,87	4	2,5	35s	28s	127
47-32H1601CS-E	H 1601 CS - E	63,76	4	2,5	42s	28s	134
47-32H2000CS-E	H 2000 CS - E	75,83	4	3,5	42s	28s	190
47-32H2001CC-E	H 2001 CC - E	56,87	4	2,5	42s	28s	131
47-32H2201CC-E	H 2201 CC - E	63,76	4	2,5	42s	28s	136
47-32H2500CC-E	H 2500 CC - E	75,83	4	3,5	54s	28s	185
47-32H2500CS-E	H 2500 CS - E	85,01	4	3,5	54s	28s	185
47-32H2700CS-E	H 2700 CS - E	92,25	4	3,5	54s	35s	200
47-32H2900CS-E	H 2900 CS - E	102,35	4	3,5	54s	35s	205
47-32H3000CC-E	H 3000 CC - E	85,01	4	3,5	54s	28s	199
47-32H3000CS-E	H 3000 CS - E	113,74	6	3,5	54s	35s	235
47-32H3200CC-E	H 3200 CC - E	92,25	4	3,5	54s	35s	205
47-32H3400CC-E	H 3400 CC - E	102,35	4	3,5	54s	35s	205
47-32H3500CC-E	H 3500 CC - E	113,74	6	3,5	54s	35s	246
47-32H3500CS-E	H 3500 CS - E	127,52	6	3,5	54s	35s	233
47-32H4000CC-E	H 4000 CC - E	127,52	6	3,5	54s	35s	249
47-32H4000CS-E	H 4000 CS - E	138,37	6	3,5	54s	42s	244
47-32H4500CC-E	H 4500 CC - E	138,37	6	3,5	54s	42s	252
47-32H4500CS-E	H 4500 CS - E	153,52	6	3,5	54s	42s	253
47-32H5000CC-E	H 5000 CC - E	153,52	6	3,5	54s	42s	253
47-32H5000CS-E	H 5000 CS - E	164,30	8	8,5	66s	42s	350

Compressors are filled by ester oil.



## Compressors Dorin technical parameters

R404A, R-507

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			10,0	5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
H40CC	35	Q [W]	3290	2780	2340	1940	1600	1300	1040	820	630	480	350
		P [kW]	0,72	0,71	0,69	0,67	0,63	0,59	0,55	0,49	0,44	0,38	0,31
	45	Q [W]	2720	2290	1910	1580	1300	1050	840	660	500	370	260
		P [kW]	0,87	0,84	0,81	0,76	0,71	0,65	0,59	0,53	0,46	0,39	0,31
H50CS	35	Q [W]				2640	2180	1780	1430	1130	870	660	480
		P [kW]				0,93	0,87	0,81	0,74	0,67	0,60	0,52	0,45
	45	Q [W]						1430	1150	900	690	520	360
		P [kW]						0,89	0,8	0,7	0,61	0,52	0,44
H75CC	35	Q [W]	4490	3790	3180	2640	2170	1770	1430	1130	880	670	490
		P [kW]	0,96	0,97	0,96	0,93	0,88	0,81	0,75	0,68	0,61	0,56	0,53
	45	Q [W]	3700	3120	2610	2170	1790	1450	1160	910	690	490	310
		P [kW]	1,21	1,17	1,12	1,05	0,97	0,89	0,8	0,73	0,67	0,62	0,6
H75CS	35	Q [W]				3860	3190	2600	2090	1650	1280	960	700
		P [kW]				1,35	1,26	1,17	1,07	0,97	0,87	0,76	0,65
	45	Q [W]						2090	1680	1320	1010	750	530
		P [kW]						1,29	1,116	1,03	0,9	0,76	0,63
H100CC	35	Q [W]	6560	5540	4640	3860	3180	2590	2090	1660	1290	980	720
		P [kW]	1,4	1,41	1,39	1,33	1,26	1,18	1,1	1,03	1,98	0,95	0,96
	45	Q [W]			3820	3170	2610	2120	1700	1330	1010	720	460
		P [kW]			1,62	1,52	1,4	1,29	1,19	1,11	1,06	1,04	1,07
H100CS	35	Q [W]				4710	3890	3170	2550	2010	1560	1170	850
		P [kW]				1,61	1,51	1,4	1,28	1,16	1,03	0,9	0,77
	45	Q [W]						2560	2050	1610	1240	920	650
		P [kW]						1,54	1,38	1,22	1,06	0,91	0,76
H150CC	35	Q [W]	8000	6760	5670	4710	3880	3160	2550	2020	1560	1170	830
		P [kW]	1,66	1,66	1,63	1,58	1,51	1,41	1,31	1,19	1,06	0,93	0,8
	45	Q [W]			4660	3870	3190	2590	2070	1610	1200	830	490
		P [kW]			1,92	1,82	1,69	1,55	1,4	1,24	1,08	0,82	0,76
H150CS	35	Q [W]				5350	4420	3610	2910	2300	1790	1350	990
		P [kW]				1,82	1,72	1,61	1,49	1,35	1,2	1,04	0,87
	45	Q [W]					3650	2970	2380	1880	1450	1080	760
		P [kW]					1,93	1,78	1,62	1,45	1,27	1,07	1,86
H180CC	35	Q [W]	9150	7730	6470	5380	4420	3600	2890	2290	1770	1320	930
		P [kW]	1,99	1,96	1,9	1,82	1,72	1,61	1,48	1,35	1,21	1,07	0,93
	45	Q [W]		6360	5320	4420	3630	2950	2350	1830	1360	940	550
		P [kW]		2,32	2,2	2,07	1,92	1,77	1,6	1,43	1,26	1,08	0,91
H180CS	35	Q [W]				6040	4980	4060	3270	2580	2000	1510	1090
		P [kW]				2,01	1,9	1,77	1,63	1,46	1,3	1,13	0,97
	45	Q [W]				4960	4080	3310	2650	2080	1600	1180	830
		P [kW]				2,31	2,13	1,94	1,74	1,54	1,34	1,15	0,97

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			10,0	5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
H201CC	35	Q [W]		9300	7800	6490	5350	4380	3540	2820	2190	1640	1150
		P [kW]		2,28	2,24	2,16	2,05	1,92	1,77	1,60	1,44	1,27	1,12
	45	Q [W]		7690	6430	5340	4400	3590	2880	2260	1710	1210	735
		P [kW]		2,76	2,64	2,49	2,32	2,13	1,93	1,73	1,53	1,34	1,18
H201CS	35	Q [W]				7020	5800	4730	3800	3010	2330	1750	1270
		P [kW]				2,34	2,22	2,07	1,9	1,71	1,51	1,32	1,15
	45	Q [W]						3860	3090	2430	1860	1370	960
		P [kW]						2,26	2,04	1,81	1,59	1,39	1,22
H220CC	35	Q [W]	11930	10080	8450	7020	5780	4710	3790	3010	2330	1750	1240
		P [kW]	2,43	2,45	2,41	1,33	2,21	2,06	1,86	1,71	1,52	1,34	1,17
	45	Q [W]	9830	8290	6950	5770	4750	3860	3080	2390	1790	1240	730
		P [kW]	3,03	2,95	2,82	2,66	2,47	2,26	2,03	1,81	1,59	1,38	1,19
H220CS	35	Q [W]				7800	6440	5250	4220	3330	2580	1940	1410
		P [kW]				2,6	2,47	2,3	2,1	1,89	1,67	1,47	1,29
	45	Q [W]				6420	5280	4280	3420	2680	2050	1510	1050
		P [kW]				2,98	2,76	2,52	2,26	2	1,75	1,53	1,34
H250CC	35	Q [W]	13200	11150	9350	7780	6410	5230	4210	3340	2590	1950	1390
		P [kW]	2,66	2,72	2,7	2,61	2,47	2,29	2,08	1,86	1,65	1,45	1,29
	45	Q [W]	10880	9180	7690	6400	5270	4280	3420	2670	2000	1390	820
		P [kW]	3,36	3,29	3,16	2,97	2,74	2,49	2,24	1,99	1,76	1,56	1,41
H250CS	35	Q [W]				8910	7330	5960	4770	3760	2900	2180	1580
		P [kW]				3,02	2,85	2,65	2,44	2,21	1,96	1,71	1,45
	45	Q [W]				7410	6070	4910	3910	3050	2320	1710	1200
		P [kW]				3,36	3,14	2,91	2,66	2,39	2,11	1,83	1,54
H280CC	35	Q [W]	14890	12570	10530	8740	7190	5850	4700	3710	2860	2130	1490
		P [kW]	3,12	3,21	3,19	3,1	2,93	2,72	2,47	2,21	1,95	1,71	1,5
	45	Q [W]	12410	10460	8750	7260	5950	4820	3830	2960	2190	1490	850
		P [kW]	3,85	3,78	3,64	3,42	3,17	2,88	2,58	2,29	2,02	1,78	1,6
H280SB	35	Q [W]				9320	7680	6250	5010	3940	3020	2250	1610
		P [kW]				3,15	2,97	2,76	2,52	2,26	1,99	1,71	1,44
	45	Q [W]				7720	6330	5120	4070	3170	2410	1750	1200
		P [kW]				3,51	3,26	2,99	2,69	2,39	2,07	1,76	1,46
H280CS	35	Q [W]				9320	7680	6250	5010	3940	3020	2250	1610
		P [kW]				3,15	2,97	2,76	2,52	2,26	1,99	1,71	1,44
	45	Q [W]				7720	6330	5120	4070	3170	2410	1750	1200
		P [kW]				3,51	3,26	2,99	2,69	2,39	2,07	1,76	1,46
H290CS	35	Q [W]				10460	8660	7080	5700	4510	3500	2650	1940
		P [kW]				3,39	3,19	2,94	2,67	2,39	2,11	1,83	1,57
	45	Q [W]				8690	7150	5810	4640	3630	2770	2040	1430
		P [kW]				3,84	3,53	3,19	2,84	2,49	2,14	1,82	1,52
H300CC	35	Q [W]	17930	15170	12720	10570	8670	7030	5620	4420	3400	2560	1870
		P [kW]	3,52	3,56	3,51	3,38	3,19	2,95	2,68	2,39	2,1	1,82	1,57
	45	Q [W]	14980	12630	10550	8730	7130	5760	4570	3560	2700	1980	1370
		P [kW]	4,41	4,3	4,11	3,85	3,54	3,21	2,82	2,48	2,14	1,81	1,53

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			10,0	5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
H300CS	35	Q [W]				11260	9330	7640	6170	4900	3820	2910	2150
		P [kW]				3,72	3,5	3,24	2,95	2,63	2,31	2	1,7
	45	Q [W]					7730	6290	5050	3980	3060	2290	1640
		P [kW]					3,92	3,56	3,17	2,78	2,4	2,03	1,7
H350CC	35	Q [W]	19130	16220	13640	11370	9380	7660	6180	4920	3840	2930	2160
		P [kW]	3,93	3,95	3,88	3,74	3,53	3,27	2,97	2,66	2,35	2,04	1,76
	45	Q [W]	16150	13620	11400	9450	7770	6310	5060	3990	3080	2310	1640
		P [kW]	4,9	4,77	4,55	4,27	3,94	3,58	3,19	2,81	2,43	2,07	1,75
H350SB	35	Q [W]				12390	10270	8420	6820	5440	4270	3270	2440
		P [kW]				4,22	3,96	3,66	3,33	2,99	2,64	2,31	2
	45	Q [W]						6970	5620	4460	3470	2630	1920
		P [kW]						4,07	3,64	3,21	2,79	2,39	2,04
H380CC	35	Q [W]	20990	17820	15010	12540	10370	8490	6860	5470	4290	3290	2460
		P [kW]	4,45	4,46	4,38	4,21	3,97	3,69	3,37	3,02	2,67	2,33	2,02
	45	Q [W]			12570	10470	8630	7040	5680	4500	3500	2650	1910
		P [kW]			5,15	4,84	4,48	4,08	3,65	3,23	2,8	2,41	2,05
H380SB	35	Q [W]						9430	7650	6120	4820	3730	2820
		P [kW]						4,19	3,83	3,45	3,07	2,68	2,28
	45	Q [W]							6340	5060	3970	3050	2280
		P [kW]							4,22	3,76	3,29	2,83	2,37
H390CS	35	Q [W]				13870	11530	9470	7690	6160	4850	3750	2830
		P [kW]				4,86	4,54	4,19	3,84	3,47	3,09	2,71	2,32
	45	Q [W]					9590	7870	6370	5090	3990	3070	2290
		P [kW]					5,12	4,67	4,22	3,77	3,31	2,86	2,41
H392CS	35	Q [W]							9110	7220	5600	4220	3070
		P [kW]							4,58	4,1	3,62	3,14	2,63
	45	Q [W]							7480	5880	4520	3370	2390
		P [kW]							4,92	4,33	3,75	3,16	2,57
H403CC	35	Q [W]	23620	19820	16510	13630	11150	9020	7230				
		P [kW]	4,35	4,36	4,29	4,14	3,94	3,69	3,41				
	45	Q [W]	20070	16760	13880	11400	9270	7450	5910				
		P [kW]	5,45	5,28	5,04	4,74	4,39	4,01	3,61				
H403CS	35	Q [W]				16030	13280	10880	8790	6990	5450	4150	3040
		P [kW]				4,04	4,78	4,44	4,05	3,63	3,19	2,75	2,34
	45	Q [W]				13540	11150	9070	7260	5700	4370	3220	
		P [kW]				3,72	5,28	4,78	4,26	3,72	3,19	2,68	
H503CC	35	Q [W]	27970	23770	20020	16700	13760	11200	8960	7040	5400	4010	2840
		P [kW]	3,59	5,5	5,32	3,06	4,74	4,37	3,96	3,53	3,06	2,66	2,25
	45	Q [W]	23530	19920	16710	13870	11380	9200	7320	5690	4300	3110	2100
		P [kW]	6,72	6,43	6,06	5,63	5,16	4,65	4,13	3,6	3,03	2,58	2,13

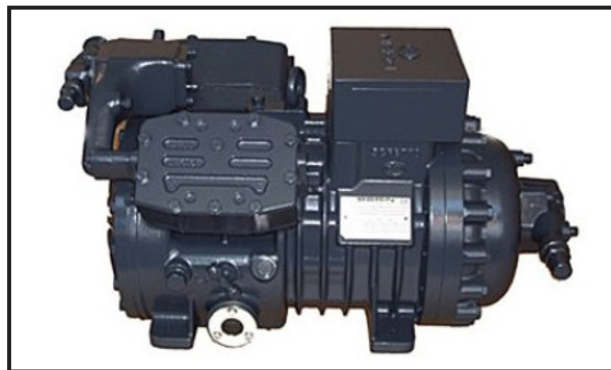
Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			10,0	5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
H503CS	35	Q [W]				19180	16010	13200	10740	8600	6770	5210	3910
		P [kW]				6	5,69	5,32	4,9	4,46	4,0	3,55	3,12
	45	Q [W]				16270	13510	11070	8940	7080	5480	4110	
		P [kW]				6,75	6,26	5,72	5,17	4,61	4,05	3,53	
H743CC	35	Q [W]	32930	28040	23670	19780	16360	13350	10750	8510	6600	5000	3670
		P [kW]	5,63	6,39	6,18	5,92	5,6	5,24	4,85	4,42	3,98	3,53	3,08
	45	Q [W]	27550	23390	19690	16410	13520	11000	8810	6920	5300	3920	2760
		P [kW]	8,02	7,61	7,17	6,68	6,17	5,64	5,1	4,55	4,01	3,48	2,97
H401CS	35	Q [W]				13980	11530	9380	7530	5930	4580	3430	2460
		P [kW]				4,27	4,06	3,81	3,51	3,17	2,8	2,39	1,95
	45	Q [W]				11490	9430	7640	6090	4760	3630	2670	1850
		P [kW]				4,66	4,38	4,05	3,69	3,29	2,86	2,4	1,93
H451CC	35	Q [W]	24230	20330	16880	13850	11220	8950	7020	5400	4060	2970	2100
		P [kW]	4,36	4,38	4,29	4,11	3,85	3,54	3,19	2,82	2,44	2,08	1,75
	45	Q [W]	20260	16900	13950	11380	9160	7260	5660	4320	3210	2310	1580
		P [kW]	5,42	5,23	4,95	4,61	4,21	3,78	3,34	2,89	2,47	2,08	1,75
H451CS	35	Q [W]				16770	13820	11250	9030	7120	5490	4110	2950
		P [kW]				5,12	4,87	4,57	4,21	3,81	3,36	2,87	2,34
	45	Q [W]				13790	11310	9160	7300	5710	4360	3200	2210
		P [kW]				5,59	5,25	4,86	4,42	3,94	3,43	2,88	2,31
H551CC	35	Q [W]	29590	24950	20850	17250	14110	11400	9080	7110	5460	4080	2940
		P [kW]	5,83	5,7	5,5	5,25	4,95	4,61	4,22	3,81	3,37	2,91	2,44
	45	Q [W]	25080	21060	17530	14440	11770	9460	7500	5830	4420	3230	2220
		P [kW]	6,94	6,66	6,32	5,93	5,5	5,04	4,54	4,02	3,48	2,92	2,37
H551CS	35	Q [W]				19580	16180	13210	10630	8410	6510	4910	3570
		P [kW]				5,86	5,63	5,31	4,91	4,45	3,93	3,37	2,78
	45	Q [W]				16220	13350	10840	8670	6810	5220	3860	2710
		P [kW]				6,55	5,18	5,74	5,22	4,65	4,04	3,41	2,76
H701CC	35	Q [W]	33390	28270	23740	19750	16260	13230	10620	8390	6500	4910	3580
		P [kW]	6,35	6,42	6,23	5,97	5,65	5,28	4,87	4,42	3,93	3,42	2,89
	45	Q [W]	28340	23900	19990	16570	13580	11000	8780	6880	5260	3880	2700
		P [kW]	7,94	7,64	7,27	6,84	6,36	6,83	5,27	4,68	4,06	3,43	2,78
H701CS	35	Q [W]				23150	19120	15600	12550	9940	7720	5840	4280
		P [kW]				7,16	6,81	6,36	5,82	5,23	4,6	3,95	3,31
	45	Q [W]				19520	16030	12990	10370	8120	6210	4590	3220
		P [kW]				8,15	7,59	6,94	6,24	5,51	4,75	4	3,28
H751CC	35	Q [W]	38720	32910	27730	23150	19120	15600	12550	9940	7720	5840	4280
		P [kW]	7,38	7,47	7,39	7,16	6,81	6,36	5,82	5,23	4,6	3,95	3,31
	45	Q [W]	33150	28040	23510	19520	16030	12990	10370	8120	6210	4590	3220
		P [kW]	9,13	8,94	8,61	8,15	7,59	6,94	6,24	5,51	4,75	4	3,28
H751CS	35	Q [W]				27240	22530	18430	14880	11830	9230	7050	5230
		P [kW]				8,71	8,27	7,7	7,02	6,29	5,52	4,76	4,03
	45	Q [W]				22990	18900	15340	12280	9660	7430	5540	3960
		P [kW]				9,95	9,2	8,37	7,48	6,56	5,66	4,8	4,03



Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			10,0	5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
H1002CC	35	Q [W]	48140	40720	34150	28380	23330	18970	15220	12030	9340	7090	5240
		P [kW]	9,51	9,5	9,3	8,92	8,41	7,8	7,1	6,36	5,59	4,93	4,11
	45	Q [W]	41250	34720	28960	23920	19550	15770	12550	9810	7510	5570	3950
		P [kW]	11,79	11,4	10,85	10,16	9,37	8,51	7,6	6,67	5,75	4,88	4,07
H801CS	35	Q [W]				31230	25840	21130	17060	13560	10590	8080	6000
		P [kW]				10,06	9,55	8,89	8,11	7,26	6,38	5,5	4,66
	45	Q [W]				26360	21670	17590	14080	11070	8520	6360	4540
		P [kW]				11,49	10,63	9,66	8,63	7,58	6354	5,55	4,65
H1003CC	35	Q [W]				32540	26760	21750	17450	13790	10710	8130	6000
		P [kW]				10,3	9,72	9	8,2	7,34	6,45	5,58	4,75
	45	Q [W]				27430	22410	18090	14390	11250	8610	6390	4530
		P [kW]				11,74	10,83	9,83	8,77	7,7	6,64	5,63	4,7
H851CS	35	Q [W]				32710	27010	22030	17710	14000	10840	8160	5920
		P [kW]				9,63	9,01	8,3	7,52	6,69	5,84	4,97	4,11
	45	Q [W]				27400	22520	18270	14600	11450	8750	6460	4520
		P [kW]				10,65	9,82	8,92	7,98	7,01	6,03	5,06	4,12
H1201CC	35	Q [W]	55950	47350	39720	33000	27120	22020	17620	13870	10700	8040	5830
		P [kW]	10,43	10,54	10,36	9,94	9,33	8,57	7,71	6,79	5,87	4,99	4,18
	45	Q [W]	47300	39870	33310	27560	22550	18230	14510	11330	8640	6360	4440
		P [kW]	12,71	12,36	11,78	11,01	10,1	9,1	8,05	4,01	6	5,09	4,32
H1001CS	35	Q [W]				37830	31270	25540	20570	16310	12680	9630	7080
		P [kW]				11,78	10,92	9,98	8,99	7,97	6,96	5,96	5,02
	45	Q [W]				31730	26080	21170	16930	13290	10190	7580	5380
		P [kW]				13,03	11,86	16,6	9,44	8,24	7,07	5,96	4,94
H1501CC	35	Q [W]	63280	53720	45240	37750	31180	25460	20510	16260	12630	9550	6950
		P [kW]	12,39	12,31	12	11,49	10,81	9,99	9,07	8,07	7,03	5,98	4,95
	45	Q [W]	53960	45520	38070	31540	25860	20940	16720	13110	10050	7460	5270
		P [kW]	15,06	14,48	13,71	12,8	11,78	10,67	9,51	8,32	7,14	6,01	4,94
H1501CS	35	Q [W]				43270	35790	29250	23580	18710	14550	11040	8090
		P [kW]				13,36	12,42	11,38	10,29	9,16	8,01	6,88	5,79
	45	Q [W]				36420	29980	24360	19510	15340	11780	8750	6180
		P [kW]				14,98	13,69	12,36	10,99	9,63	8,28	6,98	5,76
H2001CC	35	Q [W]	73380	62220	52320	43600	35970	29340	23620	18720	14560	11040	8090
		P [kW]	14,59	14,25	13,71	13,01	12,18	11,24	10,22	9,14	8,04	6,94	5,86
	45	Q [W]	62170	52520	44010	36540	30030	24390	19530	15360	11800	8760	6140
		P [kW]	17,59	16,76	15,79	14,69	13,49	12,23	10,92	9,6	8,28	7,01	5,79
H1601CS	35	Q [W]				48100	39780	32520	26220	20810	16190	12290	9020
		P [kW]				15,01	13,95	12,79	11,56	10,3	9,02	7,76	6,55
	45	Q [W]				40450	33280	27050	21660	17020	13070	9700	6850
		P [kW]				16,81	15,38	13,89	12,38	10,86	9,37	7,94	6,6

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			10,0	5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
H2201CC	35	Q [W]	81880	69420	58370	48640	40120	32720	26330	20870	16220	12300	9000
		P [kW]	15,71	15,88	15,62	14,99	14,08	12,94	11,66	10,31	8,95	7,65	6,5
	45	Q [W]	69440	58660	49140	40790	33510	27200	21770	17110	13130	9730	6810
		P [kW]	19,41	18,86	17,95	16,77	15,39	13,87	12,28	10,71	9,21	7,87	6,75
H2000CS	35	Q [W]				55110	45340	36800	29410	23070	17680	13140	9370
		P [kW]				17,85	15,5	14,99	13,38	11,73	10,09	8,54	7,11
	45	Q [W]				45940	37630	30400	24150	18800	14240	10380	7120
		P [kW]				19,92	18,04	16,08	14,10	12,16	10,31	8,63	7,16
H2500CC	35	Q [W]	93880	79200	66220	54820	44880	36260	28860	22540	17170	12640	8820
		P [kW]	19,06	18,52	17,74	16,73	15,56	14,24	12,81	11,31	9,79	8,26	6,77
	45	Q [W]	78990	66390	55300	45610	37190	29910	23660	18300	13710	9770	6360
		P [kW]	22,35	21,22	19,91	18,43	16,83	15,15	13,42	11,67	9,94	8,26	6,68
H2500CS	35	Q [W]				61670	50690	41100	32790	25670	19610	14530	10320
		P [kW]				19,94	18,48	16,82	15,03	13,18	11,33	9,57	7,95
	45	Q [W]				51470	42090	33940	26900	20880	15770	11470	7870
		P [kW]				22,31	20,23	18,05	15,83	13,64	11,56	9,65	7,98
H3000CC	35	Q [W]	105010	88600	74100	61360	50240	40600	32290	25180	19120	13970	9600
		P [kW]	21,02	20,64	19,89	18,84	17,54	16,04	14,41	12,69	10,94	9,23	7,6
	45	Q [W]	88420	74330	61940	51100	41670	33500	26460	20410	15200	10690	6740
		P [kW]	24,9	23,77	22,37	20,73	19,93	17,01	15,03	13,05	11,12	9,3	7,64
H2700CS	35	Q [W]				66430	54550	44160	35180	27480	20950	15490	10970
		P [kW]				21,67	20,06	18,24	16,3	14,29	12,29	10,39	8,64
	45	Q [W]				55500	45330	36480	28860	22350	16840	12210	8360
		P [kW]				24,21	21,95	19,57	17,17	14,81	12,56	10,49	8,69
H3200CC	35	Q [W]	113760	95890	80090	66220	54120	43630	34620	26920	20400	14890	10240
		P [kW]	22,92	22,39	21,52	20,37	19,97	17,38	15,65	13,82	11,93	10,05	8,22
	45	Q [W]	95880	80500	66980	55150	44870	35990	28350	21810	16220	11420	7270
		P [kW]	27,5	25,78	24,24	22,48	20,55	18,5	16,36	14,2	12,06	9,98	8,02
H2900CS	35	Q [W]				73830	60580	49010	39000	30430	23180	17110	12110
		P [kW]				24,05	22,26	20,24	18,07	15,82	13,64	11,53	9,59
	45	Q [W]				61700	50350	40490	31990	24740	18620	13480	9230
		P [kW]				26,388	24,35	21,71	19,04	16,42	13,93	11,64	9,64
H3400CC	35	Q [W]	125520	105860	88470	73190	59860	48290	38330	29800	22540	16360	11110
		P [kW]	24,97	24,71	23,95	22,77	21,24	19,44	15,34	13,19	13,19	11,08	9,08
	45	Q [W]	105860	88930	74040	61010	49670	39860	31400	24120	17860	12440	7700
		P [kW]	29,84	28,61	26,99	25,06	22,88	20,44	18,12	15,7	13,34	11,12	9,14
H3000CS	35	Q [W]				79060	65260	53190	42720	33710	26030	19540	14100
		P [kW]				26,25	24,33	22,16	19,81	17,37	14,92	12,56	10,36
	45	Q [W]				66570	54610	44200	35180	27430	20810	15190	10420
		P [kW]				29,64	26,83	23,88	20,89	17,93	15,09	12,45	10,11
H3500CC	35	Q [W]	133180	112650	94510	78590	64690	52650	42290	33410	25850	19410	13930
		P [kW]	29,09	2,8	26,66	25,08	23,31	21,37	19,31	17,14	14,9	12,62	10,34
	45	Q [W]	113320	95500	79840	66130	54220	43910	35020	27390	20810	15120	10140
		P [kW]	34,54	32,59	30,44	28,11	26,65	23,07	20,42	17,72	15	12,31	9,66

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			10,0	5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
H3500CS	35	Q [W]				88030	72520	58970	47240	37180	28630	21460	15520
		P [kW]				2,64	27,28	24,75	22,1	19,4	16,72	14,12	11,67
	45	Q [W]				74210	60720	48980	38860	30200	22850	16680	11520
		P [kW]				33,36	30,07	26,72	23,36	20,08	16,93	13,97	11,28
H4000CC	35	Q [W]	149620	126500	106080	88160	72540	59020	47400	37480	29070	21970	15970
		P [kW]	32,84	31,55	29,98	28,15	26,11	26,9	21,65	19,13	16,65	14,16	11,7
	45	Q [W]	127290	107210	89560	74140	60750	49190	39260	30760	23500	17270	11880
		P [kW]	38,96	36,69	64,2	31,52	28,71	25,79	22,81	19,81	16,83	13,91	11,09
H4000CS	35	Q [W]				95670	79120	64670	52150	41410	32270	24590	18200
		P [kW]				31,87	29,48	26,83	24,02	21,13	18,28	15,55	13,04
	45	Q [W]				80780	66470	54020	43280	34070	26250	19640	14090
		P [kW]				36,29	32,73	29,08	25,43	21,89	18,55	15,5	12,85
H4500CC	35	Q [W]	162810	137570	115270	95710	78670	63920	51260	40470	31330	23630	17140
		P [kW]	34,63	33,49	31,94	30,04	27,85	25,46	22,91	20,29	17,66	16,08	12,63
	45	Q [W]	138590	116640	97350	80500	65870	53260	42440	33200	25320	18580	12780
		P [kW]	41,42	39,12	36,5	33,63	30,58	27,41	24,19	20,99	17,88	14,93	12,19
H4500CS	35	Q [W]				104790	86710	70900	57180	45390	35330	26830	19710
		P [kW]				35	32,53	29,69	26,62	2342	20,22	17,14	14,3
	45	Q [W]				88330	72770	59210	47480	37400	28780	21460	15250
		P [kW]				39,88	36,11	32,17	12,18	24,25	20,51	17,08	14,07
H5000CC	35	Q [W]	180570	152480	127690	105930	86980	70600	56550	44580	34470	25960	18830
		P [kW]	38,25	37,11	35,46	33,37	30,94	29,26	25,40	22,47	19,54	16,71	16,06
	45	Q [W]	153810	129360	107870	89110	72840	58820	46800	36560	27850	20430	14060
		P [kW]	45,97	43,46	40,56	37,35	33,93	30,38	26,76	23,25	19,84	16,66	13,78
H5000CS	35	Q [W]				118090	97410	79370	63750	50360	39000	29460	21540
		P [kW]				36,3	33,66	30,67	27,45	24,11	20,78	17,58	14,63
	45	Q [W]				96390	79260	64380	51540	40550	31190	23260	16570
		P [kW]				10,82	36,88	32,78	28,65	24,61	20,77	17,26	14,21



## Compressors Dorin spare parts

We can send exploded views of compressors based on request.

Code	Description
47-323032-18	valve plate Dorin K2-K3 1PCB065
47-323032-16	valve plate Dorin K3 1PCB066
47-323032-17	suction filter including seals for compressor's motors Dorin serie K7
47-321MCD972	crankshaft + piston Dorin 1MCD972
47-323032-08	bearing cover H47-321CBC125 for compressors Dorin H 402CC-H 742CC
47-323032-07	bearing - set H47-321CKJ020 for compressors Dorin H402CC-H742CC (2 pcs)
47-323032-15	modul Dorin CPM 2CC1120, 220V
47-323032-20	piston with connection rod for compressors Dorin H180CS, H200CC, H220CS - H280CC
47-32H-1MCD210	piston with connection rod for compressors Dorin H1 serie 1MCD210
47-32H-1MCD113	piston with connection rod for compressors Dorin K1,MCD113
47-323032-09	piston with connection rod for compressors Dorin, K3000 - K 4000
47-323032-06	piston with connection rod for compressors Dorin, K5000 - K 7500
47-32INT69	motor protector Dorin INT69 (Kriwan 52 A 120 S10)
47-32INT69TR	motor protector Dorin INT69, (2CC4010)
47-323032-02	complete gasket set Dorin H290CS-H392CS
47-323032-03	complete gasket set Dorin H402CC-H742CC
47-323032-01	complete gasket set Dorin H40CC-H280CC
47-323032-00	complete gasket set Dorin K1500CS-K3000CC
47-323032-11	complete gasket set Dorin K250CS-K300SB
47-323032-12	complete gasket set Dorin K400CC-K740CC
47-323032-10	complete gasket set Dorin K40CC-K240SB
47-323032-13	complete gasket set Dorin K750CC-K1500CC
47-323032-DPS	sensor D.P.S Dorin, 0,8 bar 2CG4030
47-32H-2CG1030	oil level sensor, 0,8bar, Dorin 2CG1030
47-323032-04	crankcase heater Dorin H/KP, K250CS - K3000CC
47-323032-14	crankcase heater Dorin, 100 W, 220 - 240V, H 150 CS
47-323032-19	crankcase heater Dorin, 200 W, 220 - 240 V
47-321PCB045	valve plate Dorin 1PCB045
47-323032-05	valve plate Dorin, K6, K7, K3000CS - K7500

**Condensing units  
Dorin**

R404A, HBP, 400 V

Voltage: 380 - 420 V / 50 Hz

Code	Displ. [m <sup>3</sup> /h]	Ventilator number x Ø	Receiver volume [l]	Connection		Sound level [dBA]
				suction - solder	discharge - rotalock	
47-32AU-H151CC-E	6,71	1 x 350	2,3	16s	1" - 1/2"	68,5
47-32AU2-H151CC-E	6,71	2 x 300	2,3	16s	1" - 1/2"	65,0
47-32AU-H151CS-E	7,5	1 x 350	2,3	16s	1" - 1/2"	68,5
47-32AU2-H151CS-E	7,5	2 x 300	2,3	16s	1" - 1/2"	65,0
47-32AU-H181CC-E	7,5	1 x 350	2,3	16s	1" - 1/2"	68,6
47-32AU2-H181CC-E	7,5	2 x 300	2,3	16s	1" - 1/2"	65,3
47-32AU-H181CS-E	9,16	1 x 350	2,3	16s	1" - 1/2"	68,6
47-32AU2-H181CS-E	9,16	2 x 300	2,3	16s	1" - 1/2"	65,3
47-32AU-H201CC-E	9,16	1 x 350	2,3	16s	1" - 1/2"	68,6
47-32AU2-H201CC-E	9,16	2 x 300	2,3	16s	1" - 1/2"	65,3
47-32AU-H201CS-E	9,88	1 x 350	2,3	18s	1" - 1/2"	68,6
47-32AU2-H201CS-E	9,88	2 x 300	2,3	18s	1" - 1/2"	65,3
47-32AU-H221CC-E	9,88	1 x 350	2,3	18s	1" - 1/2"	68,6
47-32AU2-H221CC-E	9,88	2 x 300	2,3	18s	1" - 1/2"	65,3
47-32AU-H221CS-E	10,61	1 x 350	2,3	18s	1" - 1/2"	68,6
47-32AU2-H221CS-E	10,61	2 x 300	3,9	18s	1" - 1/2"	72,8
47-32AU-H251CC-E	10,61	1 x 450	3,9	18s	1" - 1/2"	77,2
47-32AU2-H251CC-E	10,61	2 x 350	3,9	18s	1" - 1/2"	72,8
47-32AU-H251CS-E	11,64	1 x 350	2,3	18s	1" - 1/2"	68,6
47-32AU2-H251CS-E	11,64	2 x 350	3,9	18s	1" - 1/2"	72,8
47-32AU-H281SB-E	13,23	1 x 350	2,3	18s	1" - 1/2"	68,6
47-32AU2-H281SB-E	13,23	2 x 300	2,3	18s	1" - 1/2"	65,3
47-32AU-H281CC-E	11,64	1 x 450	3,9	18s	1" - 1/2"	77,2
47-32AU2-H281CC-E	11,64	2 x 350	3,9	18s	1" - 1/2"	72,8
47-32AU-H281CS-E	13,23	1 x 450	3,9	18s	1" - 1/2"	77,2
47-32AU2-H281CS-E	13,23	2 x 350	3,9	18s	1" - 1/2"	72,8
47-32AU-H290CS-E	14,74	1 x 450	3,9	22s	1" - 1/2"	77,2
47-32AU2-H290CS-E	14,74	2 x 350	3,9	22s	1" - 1/2"	72,8
47-32AU-H300CC-E	14,74	1 x 450	5,7	22s	1" - 5/8"	72,8
47-32AU2-H300CC-E	14,74	2 x 350	5,7	22s	1" - 5/8"	77,5
47-32AU-H300CS-E	15,94	1 x 450	3,9	28s	1" - 1/2"	77,2
47-32AU2-H300CS-E	15,94	2 x 350	3,9	28s	1" - 1/2"	72,8
47-32AU-H350CC-E	15,94	1 x 450	5,7	28s	1" - 5/8"	77,5
47-32AU2-H351CC-E	15,94	2 x 350	5,7	28s	1" - 5/8"	73,0
47-32AU-H350SB-E	17,53	1 x 450	3,9	28s	1" - 1/2"	77,2
47-32AU2-H350SB-E	17,53	2 x 350	3,9	28s	1" - 1/2"	72,8
47-32AU-H380CC-E	17,53	1 x 450	5,7	28s	1" - 5/8"	77,5
47-32AU2-H381CC-E	17,53	2 x 350	5,7	28s	1" - 5/8"	73,0
47-32AU-H390CS-E	19,53	1 x 450	3,9	28s	1" - 1/2"	77,2
47-32AU2-H390CS-E	19,53	2 x 350	3,9	28s	1" - 1/2"	72,8

Code	Displ. [m³/h]	Ventilator number x Ø	Receiver volume [l]	Connection		Sound level [dBA]
				suction - solder	discharge - rotalock	
47-32AU-H392CS-E	23,31	1 x 450	3,9	28s	1" - 1/2"	77,2
47-32AU2-H392CS-E	23,31	2 x 350	5,7	28s	1" - 5/8"	73,0
47-32AU-H403CC-E	19,98	1 x 450	5,7	28s	1" - 5/8"	77,5
47-32AU2-H403CC-E	19,98	2 x 450	5,7	28s	1" - 5/8"	78,2
47-32AU-H403CS-E	22,83	1 x 450	3,9	28s	1" - 1/2"	77,2
47-32AU2-H404CS-E	22,83	2 x 350	5,7	28s	1" - 5/8"	73,0
47-32AU-H503CC-E	22,83	1 x 450	5,7	28s	1" - 5/8"	77,5
47-32AU2-H503CC-E	22,83	2 x 450	5,7	28s	1" - 5/8"	78,2
47-32AU-H503CS-E	26,44	1 x 450	5,7	25s	1" - 5/8"	78,2
47-32AU2-H503CS-E	26,44	2 x 450	5,7	35s	1" - 5/8"	77,5
47-32AU-H701CS-E	31,88	1 x 450	5,7	28s	1" - 5/8"	77,5
47-32AU2-H701CS-E	31,88	2 x 450	7,6	28s	1" - 3/4"	78,2
47-32AU2-H743CC-E	26,4	2 x 450	7,6	35s	1" - 3/4"	78,2
47-32AU2-H751CC-E	31,88	2 x 450	7,6	28s	1" - 3/4"	80,7
47-32AU2-H751CS-E	38,06	2 x 450	7,6	35s	1" - 3/4"	78,2
47-32AU2-H851CS-E	42,81	2 x 450	15	35s	1 1/4" - 7/8"	80,7
47-32AU2-H1001CS-E	48,82	2 x 450	15	35s	1 1/4" - 7/8"	80,7
47-32AU2-H1002C-C-E	38,06	2 x 450	7,6	35s	1" - 3/4"	80,7

Code	Type	Diameters [mm]			Weight [kg]
		length	width	height	
47-32AU-H151CC-E	AU-H151CC	590	700	470	64
47-32AU2-H151CC-E	AU2-H151CC	950	700	425	71
47-32AU-H151CS-E	AU-H151CS	590	700	470	71
47-32AU2-H151CS-E	AU2-H151CS	950	700	425	71
47-32AU-H181CC-E	AU-H181CC	590	700	520	68
47-32AU2-H181CC-E	AU2-H181CC	950	700	425	73
47-32AU-H181CS-E	AU-H181CS	590	700	520	68
47-32AU2-H181CS-E	AU2-H181CS	950	700	425	68
47-32AU-H201CC-E	AU-H201CC	590	700	520	69
47-32AU2-H201CC-E	AU2-H201CC	950	700	425	74
47-32AU-H201CS-E	AU-H201CS	590	700	520	69
47-32AU2-H201CS-E	AU2-H201CS	950	700	425	69
47-32AU-H221CC-E	AU-H221CC	590	700	520	70
47-32AU2-H221CC-E	AU2-H221CC	950	700	425	70
47-32AU-H221CS-E	AU-H221CS	590	700	520	70
47-32AU2-H221CS-E	AU2-H221CS	1200	700	525	75
47-32AU-H251CC-E	AU-H251CC	950	700	675	88
47-32AU2-H251CC-E	AU2-H251CC	1200	700	525	93
47-32AU-H251CS-E	AU-H251CS	590	700	520	70
47-32AU2-H251CS-E	AU2-H251CS	1200	700	525	93
47-32AU-H281SB-E	AU-H281SB	590	700	520	72
47-32AU2-H281SB-E	AU2-H281SB	950	700	425	72
47-32AU-H281CC-E	AU-H281CC	950	700	675	88

Code	Type	Diameters [mm]			Weight [kg]
		length	width	height	
47-32AU2-H281CC-E	AU2-H281CC	1200	700	525	93
47-32AU-H281CS-E	AU-H281CS	950	700	675	89
47-32AU2-H281CS-E	AU2-H281CS	1200	700	525	95
47-32AU-H290CS-E	AU-H290CS	950	700	675	100
47-32AU2-H290CS-E	AU2-H290CS	1200	700	525	107
47-32AU-H300CC-E	AU-H300CC	950	700	825	110
47-32AU2-H300CC-E	AU2-H300CC	1200	700	675	115
47-32AU-H300CS-E	AU-H300CS	950	700	675	100
47-32AU2-H300CS-E	AU2-H300CS	1200	700	525	108
47-32AU-H350CC-E	AU-H350CC	950	700	825	110
47-32AU2-H351CC-E	AU2-H351CC	1200	700	675	115
47-32AU-H350SB-E	AU-H350SB	950	700	675	100
47-32AU2-H350SB-E	AU2-H350SB	1200	700	525	100
47-32AU-H380CC-E	AU-H380CC	950	700	825	111
47-32AU2-H381CC-E	AU2-H381CC	1200	700	675	116
47-32AU-H390CS-E	AU-H390CS	950	700	675	108
47-32AU2-H390CS-E	AU2-H390CS	1200	700	525	110
47-32AU-H392CS-E	AU-H392CS	950	700	675	108
47-32AU2-H392CS-E	AU2-H392CS	1200	700	675	118
47-32AU-H403CC-E	AU-H403CC	950	850	825	128
47-32AU2-H403CC-E	AU2-H403CC	1200	850	725	152
47-32AU-H403CS-E	AU-H403CS	950	850	675	128
47-32AU2-H404CS-E	AU2-H404CS	1200	850	675	142
47-32AU-H503CC-E	AU-H503CC	950	850	825	141
47-32AU2-H503CC-E	AU2-H503CC	1200	850	725	155
47-32AU-H503CS-E	AU-H503CS	950	850	825	144
47-32AU2-H503CS-E	AU2-H503CS	1200	850	725	154
47-32AU-H701CC-E	AU-H701CC	950	850	825	154
47-32AU2-H701CS-E	AU2-H701CS	1200	850	725	170
47-32AU2-H743CC-E	AU2-H743CC	1200	850	725	157
47-32AU2-H751CC-E	AU2-H751CC	1660	850	825	197
47-32AU2-H751CS-E	AU2-H751CS	1200	850	725	171
47-32AU2-H851CS-E	AU2-H851CS	1660	850	825	193
47-32AU2-H1001CS-E	AU2-H1001CS	1660	850	825	220
47-32AU2-H1002CC-E	AU2-H1002CC	1660	850	825	196

Type	Application range	Cond. temp [°C]	Evaporating temperature [°C] / cooling capacity [W] - R404A									
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
AU-H151CC	H	27		5040	4360	3710	3120	2580	2090	1660	1290	965
		32			3990	3400	2850	2350	1900	1500	1150	850
		43				2720	2260	1860	1490	1160	860	595
AU2-H151CC	H	27		5250	4510	3830	3200	2640	2130	1690	1310	980
		32			4130	3510	2930	2410	1940	1530	1170	860
		43				2810	2330	1900	1520	1180	870	605
AU-H151CS	L	27				4020	3400	2830	2310	1840	1440	1090
		32				3700	3130	2590	2120	1690	1310	975
		43					2520	2090	1700	1350	1030	745
AU2-H151CS	L	27				4150	3500	2890	2350	1880	1460	1100
		32				3820	3210	2660	2160	1720	1330	985
		43					2590	2140	1740	1370	1040	755
AU-H181CC	H	27	6810	5900	5060	4280	3570	2940	2380	1890	1470	1120
		32	6310	540	4660	3930	3270	2690	2160	1710	1320	985
		43		4450	3780	3160	2620	2130	1690	1310	980	695
AU2-H181CC	H	27	6890	5960	5100	4310	3590	2960	2390	1900	1480	1130
		32	6370	5500	4700	3960	3290	2700	2180	1720	1320	990
		43		4490	3820	3190	2630	2140	1700	1320	985	695
AU-H181CS	L	27			5940	5080	4280	3540	2880	2300	1790	1350
		32			5450	4660	3920	3240	2630	2090	1610	1210
		43				3760	3150	2590	2090	1650	1250	900
AU2-H181CS	L	27			6000	5120	4310	3570	2900	2310	1800	1360
		32			5510	4700	3950	3260	2650	2100	1620	1210
		43				3790	3170	2610	2110	1660	1260	905
AU-H201CC	H	27	7820	6820	5890	5050	4270	3550	2910	2330	1810	1340
		32	7180	6260	5420	4630	3910	3250	2650	2110	1610	1150
		43			4380	3740	3140	2590	2080	1610	1160	715
AU2-H201CC	H	27	7920	6900	5960	5090	4300	3570	2920	2340	1820	1340
		32	7280	6340	5470	4670	3940	3270	2670	2120	1620	1160
		43		5150	4430	3770	3160	2610	2100	1620	1160	720
AU-H201CS	L	27				5380	4540	3780	3080	2460	1910	1440
		32				4930	4160	3450	2810	2230	1730	1280
		43					3350	2760	2230	1760	1330	950
AU2-H201CS	L	27				5430	4580	3800	3100	2470	1920	1450
		32				4980	4200	3470	2830	2250	1730	1290
		43					3380	2780	2250	1770	1340	955
AU-H221CC	H	27	8280	7250	6270	5370	4520	3750	3040	2420	1870	1400
		32	7600	6650	5750	4920	4130	3410	2760	2180	1670	1230
		43			4620	3930	3290	2690	2160	1680	1250	860
AU2-H221CC	H	27	8400	7350	6350	5430	4570	3770	3060	2430	1880	1410
		32	7710	6740	5820	4970	4170	3440	2780	2190	1680	1230
		43			4670	3970	3320	2720	2170	1690	1250	860
AU-H221CS	L	27			6670	5720	4840	4020	3280	2620	2040	1550
		32			6120	5250	4430	3680	2990	2380	1840	1380
		43				4210	3550	2920	2370	1860	1410	1020



Type	Application range	Cond. temp [°C]	Evaporating temperature [°C] / cooling capacity [W] - R404A									
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
AU2-H221CS	L	27			7390	6260	5230	4300	3480	2760	2130	1610
		32			6810	5760	4800	3940	3180	2510	1920	1430
		43			5530	4650	3870	3150	2520	1960	1480	1060
AU-H251CC	H	27	10150	8780	7510	6320	5270	4310	3470	2740	2110	1580
		32	9350	8080	6900	5810	4830	3950	3180	2500	1910	1420
		43	7620	6570	5580	4700	3900	3180	2550	1990	1500	1070
AU2-H251CC	H	27	9850	8540	7330	6200	5170	4250	3430	2710	2090	1570
		32	9060	7850	6730	5700	4740	3900	3140	2470	1900	1400
		43	7370	6370	5450	4590	3830	3130	2510	1960	1480	1060
AU-H251CS	L	27			7190	6190	5240	4380	3580	2860	2220	1670
		32				5680	4820	4010	3270	2600	2000	1480
		43					3890	3220	2600	2050	1550	1100
AU2-H251CS	L	27			8040	6820	5710	4700	3800	3010	2320	1740
		32			7410	6290	5250	4320	3480	2750	2100	1550
		43				5130	4260	3490	2790	2170	1630	1150
AU-H281SB	L	27	11070	9560	8160	6880	5720	4680	3770	2970	2280	1690
		32	10260	8840	7540	6330	5260	4300	3440	2690	2040	1480
		43		7280	6170	5160	4260	3450	2730	2090	1530	1040
AU2-H281SB	L	27	10750	9290	7960	6740	5610	4610	3710	2930	2260	1670
		32	9940	8600	7340	6200	5160	4230	3390	2660	2020	1470
		43		7060	6000	5040	4170	3380	2680	2060	1510	1030
AU-H281CC	H	27				6610	5620	4690	3840	3060	2370	1770
		32				6060	5150	4290	3500	2770	2130	1570
		43					4130	3420	2770	2180	1640	1160
AU2-H281CC	H	27				6700	5690	4740	3870	3080	2380	1780
		32				6140	5210	4330	3530	2790	2140	1580
		43					4180	3460	2790	2190	1650	1170
AU-H281CS	L	27			8920	7560	6300	5180	4170	3290	2530	1880
		32			8220	6950	5790	4740	3810	2990	2280	1670
		43			6700	5640	4670	3810	3030	2350	1750	1230
AU2-H281CS	L	27			8680	7370	6180	5080	4110	3250	2500	1860
		32			7990	6770	5670	4650	3750	2950	2250	1650
		43			6510	5500	4570	3730	2980	2320	1730	1220
AU-H290CS	L	27			9830	8370	7040	5820	4730	3770	2940	2230
		32			9050	7710	6450	4320	4320	3430	2650	1980
		43				6230	5190	4260	3420	2670	2020	1450
AU2-H290CS	L	27			9520	8150	6880	5700	4650	3710	2900	2200
		32			8770	7490	6310	5220	4240	3370	2610	1960
		43				6050	5070	4160	3350	2630	1990	1430
AU-H300CC	H	27	14640	12580	10670	8960	7420	6060	4860	3830	2940	2200
		32	13540	11610	9840	8250	6820	5560	4450	3480	2650	1950
		43	11130	9490	8030	6700	5520	4470	3540	2740	2040	1430
AU2-H300CC	H	27	13930	12040	10290	8680	7220	5910	4760	3760	2890	2170
		32	12860	11100	9470	7970	6620	5420	4350	3420	2610	1920
		43	10540	9060	7700	6460	5340	4350	3460	2680	2000	1410

Type	Application range	Cond. temp. [°C]	Evaporating temperature [°C] / cooling capacity [W] - R404A									
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
AU-H300CS	L	27			10390	8870	7480	6210	5070	4060	3180	2430
		32				8170	6880	5700	4640	3700	2890	2180
		43					5550	4580	3710	2930	2240	1640
AU2-H300CS	L	27			10050	8620	7300	6090	4980	4000	3140	2400
		32				7930	6700	5580	4550	3650	2850	2160
		43					5410	4470	3630	2880	2210	1620
AU-H350CC	H	27	15500	13360	11400	9610	8010	6580	5330	4230	3300	2510
		32	14360	12370	10530	8860	7390	6060	4890	3870	3000	2260
		43		10180	8630	7250	6010	4910	3940	3080	2430	1700
AU2-H351CC	H	27	14720	12750	10950	9290	7760	6410	5210	4160	3250	2480
		32	13620	11790	10110	8570	7150	5900	4780	3800	2950	2220
		43		9660	8260	6960	5810	4760	3840	3020	2300	1670
AU-H350SB	L	27				9560	8100	6760	5540	4460	3520	2710
		32					7450	6220	5090	4090	3210	2450
		43						5030	4110	3280	2550	1900
AU2-H350SB	L	27				9260	7880	6600	5440	4390	3470	2680
		32					7240	6070	4980	4020	3160	2420
		43						4910	4020	3220	2510	1880
AU-H380CC	H	27	16710	14450	12380	10470	8750	7220	5880	4700	3680	2820
		32		13360	11440	9650	8080	6660	5410	4310	3360	2540
		43			9360	7910	6600	5430	4390	3460	2660	1960
AU2-H381CC	H	27		13730	11830	10080	8480	7020	5730	4600	3620	2770
		32		12670	10910	9290	7810	6460	5270	4220	3300	2500
		43				7580	6350	5250	4260	3390	2610	1930
AU-H390CS	L	27				10420	8890	7470	6170	4990	3960	3070
		32				9590	8180	6870	5660	4590	3630	2800
		43					6630	5580	4600	3730	2940	2240
AU2-H390CS	L	27				10060	8620	7270	6030	4900	3900	3030
		32				9240	7920	6680	5550	4500	3580	2770
		43					6410	5420	4500	3650	2890	2210
AU-H392CS	L	27							7000	5600	4390	3330
		32							6400	5120	3990	2990
		43									3150	2310
AU2-H392CS	L	27						8900	7250	5790	4510	3410
		32							6640	5290	4100	3060
		43								4240	3240	2360
AU-H403CC	H	27	18340	15470	13370	11220	9290	7590	6110	4850	3770	
		32	17020	14580	12350	10320	8540	6960	5580	4410		
		43		12040	10130	8410	6900	5590	4440			
AU2-H403CC	H	27	17280	14930	12760	10770	8980	7360	5950	4730	3700	
		32	16020	13800	11770	9920	8250	6740	5440	4300		
		43		11360	9610	8040	6630	5390	4310			
AU-H403CS	L	27			13660	11790	10030	8390	6890	5530	4350	3330
		32				10860	9230	7710	6310	5040	3930	2970
		43					7400	6150	4980	3930	2990	2160

Type	Application range	Cond. temp [°C]	Evaporating temperature [°C] / cooling capacity [W] - R404A									
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
AU2-H404CS	L	27			14530	12430	10490	8730	7120	5700	4470	3410
		32			13420	11480	9680	8040	6520	5200	4040	3040
		43				9330	7830	6440	5190	4070	3080	2220
AU-H503CC	H	27	21120	18350	15780	13380	11180	9170	7390	5820	4450	3300
		32	19490	16920	14530	12300	10250	8400	6750	5290	4020	2920
		43		13800	11810	9960	8260	6740	5370	4160	3080	2140
AU2-H503CC	H	27	21670	18790	16080	13610	11330	9290	7470	5870	4490	3320
		32	20030	17330	14830	12520	10420	8520	6830	5340	4050	2940
		43	16420	14150	12070	10140	8410	6840	5440	4200	3100	2160
AU-H503CS	L	27			17770	15210	12860	10710	8770	7070	5590	4320
		32			16450	14080	11880	9860	8060	6480	5090	3890
		43				11480	9650	7960	6460	5110	3930	2900
AU2-H503CS	L	27			18160	15510	13060	10850	8880	7140	5640	4360
		32			16850	14350	12080	10020	8180	6550	5140	3920
		43				11740	9820	8110	6550	5190	3980	2930
AU2-H743CC	H	27	24190	21140	18250	15570	13090	10820	8810	7010	5460	4120
		32	22310	19460	16810	14320	12050	9940	8070	6400	4950	3690
		43		15860	13640	11600	9710	8010	6460	5080	3840	2740
AU2-H701CS	L	27			19970	17060	14360	11880	9600	7600	5850	4340
		32			18390	15700	13200	10880	8800	6940	5310	3890
		43			15000	12770	10710	8800	7090	5560	4180	2980
AU2-H751CC	H	27	30030	25840	21960	18440	15210	12360	9850	7690	5860	4330
		32	27750	23850	20240	16950	13960	11320	9010	7000	5290	3870
		43	22980	19620	16560	13770	11320	9140	7230	5570	4160	2960
AU2-H751CS	L	27			22870	19670	16660	13850	11290	8950	6920	5160
		32			21050	18080	1529	12710	10310	8170	6270	4630
		43				14700	12400	10280	8300	6530	4940	3520
AU2-H851CS	L	27			28610	24460	20600	17060	13870	11040	8580	6470
		32			26420	22570	19000	15700	12720	10090	7790	5800
		43			21740	18470	15470	12710	10240	8030	6080	4360
AU2-H1002CC	H	27	34180	29580	25280	21280	17690	14400	11520	9020	6880	5100
		32	31610	27290	23260	19590	16220	13190	10520	8210	6230	4560
		43		22410	19000	15950	13120	10650	8450	6540	4890	3480
AU2-H1001CS	L	27			31610	27200	23120	19280	15830	12660	9920	7550
		32			29150	25080	21260	17740	14470	11570	9000	6770
		43				20360	17200	14280	11580	9140	6970	5040

Type	Application range	Cond. temp. [°C]	Evaporating temperature [°C] / cooling capacity [W] - R407F									
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
AU-H151CC	H	27			4140	3460	2840	2280	1800	1380	1030	735
		32			3830	3190	2610	2090	1640	1240	915	640
		43				2590	2100	1660	1280	950	675	440
AU2-H151CC	H	27		5090	4290	3570	2920	2330	1830	1400	1040	740
		32			3970	3290	2680	2140	1670	1260	925	650
		43				2680	2160	1700	1310	965	680	450
AU-H151CS	L	27				3750	3090	2500	1980	1520	1140	820
		32				3470	2860	2310	1820	1390	1030	730
		43					2340	1870	1460	1100	800	550
AU2-H151CS	L	27			4630	3870	3180	2550	2020	1550	1150	830
		32				3590	2940	2360	1850	1410	1050	740
		43					2410	1920	1490	1120	810	555
AU-H181CC	H	27	6740	5740	4820	3990	3250	2590	2040	1560	1170	850
		32		5340	4470	3690	2990	2380	1860	1410	1040	740
		43			3700	3020	2420	1900	1450	1080	765	515
AU2-H181CC	H	27	6830	5800	4870	4020	3270	2610	2050	1570	1180	850
		32	6370	5400	4520	3720	3010	2400	1870	1420	1050	745
		43			3740	3050	2440	1910	1460	1080	770	515
AU-H181CS	L	27			5630	4710	3880	3130	2460	1900	1420	1030
		32			5220	4360	3570	2860	2250	1720	1270	905
		43				3580	2920	2310	1790	1350	970	665
AU2-H181CS	L	27			5700	4760	3910	3150	2480	1910	1420	1030
		32			5290	4410	3610	2890	2270	1730	1280	910
		43				3630	2950	2330	1810	1360	975	670
AU-H201CC	H	27	7670	6600	5600	4690	3870	3130	2470	1910	1430	1020
		32	7120	6120	5190	4340	3560	2870	2260	1730	1270	870
		43			4290	3560	2900	2300	1780	1320	910	545
AU2-H201CC	H	27	7790	6690	5670	4750	3910	3150	2490	1920	1440	1020
		32	7240	6210	5250	4380	3600	2890	2270	1740	1280	875
		43			4350	3600	2930	2320	1790	1330	915	550
AU-H201CS	L	27			5950	4990	4120	3330	2630	2030	1520	1090
		32				4610	3790	3060	2400	1840	1360	965
		43				3800	3100	2470	1910	1440	1040	700
AU2-H201CS	L	27			6020	5050	4160	3360	2650	2040	1530	1100
		32				4670	3830	3080	2420	1850	1370	970
		43				3850	3130	2490	1930	1450	1040	705
AU-H221CC	H	27	8070	6990	5950	4990	4100	3310	2600	2000	1490	1060
		32		6450	5490	4590	3770	3030	2370	1800	1320	920
		43			4460	3710	3030	2400	1850	1380	970	635
AU2-H221CC	H	27	8220	7100	6030	5050	4150	3340	2620	2010	1490	1070
		32	7610	6560	5570	4650	3810	3050	2390	1810	1330	925
		43			4540	3770	3060	2420	1870	1390	975	635
AU-H221CS	L	27			5840	4900	4050	3270	2580	1990	1490	1070
		32			5420	4530	3730	3010	2360	1800	1330	945
		43			4480	3730	3040	2420	1880	1410	1020	690

Type	Application range	Cond. temp. [°C]	Evaporating temperature [°C] / cooling capacity [W] - R407F									
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
AU2-H221CS	L	27		7660	6440	5340	4350	3480	2720	2080	1540	1100
		32			5990	4950	4010	3200	2490	1890	1380	975
		43			5000	4090	3290	2600	1990	1480	1060	710
AU-H251CC	H	27	10090	8570	7170	5920	4800	3820	2980	2260	1670	1190
		32	9390	7960	6650	5470	4430	3510	2730	2060	1510	1060
		43	7830	6610	5500	4490	3610	2840	2180	1630	1170	785
AU2-H251CC	H	27	9760	8320	6990	5790	4710	3760	2940	2240	1660	1180
		32	9060	7710	6470	5350	4340	3450	2690	2040	1490	1050
		43		6390	5340	4390	3530	2790	2150	1610	1150	780
AU-H251CS	L	27			6830	5740	4750	3580	3050	2350	1760	1270
		32			6340	5320	4380	3540	2790	2140	1580	1120
		43				4400	3600	2870	2230	1670	1200	810
AU2-H251CS	L	27		9100	7650	6350	5190	4150	3250	2490	1840	1320
		32			7130	5900	4800	3820	2980	2260	1660	1160
		43			6000	4920	3960	3120	2390	1780	1270	845
AU-H281SB	L	27	11020	9330	7800	6430	5210	4140	3230	2460	1810	1280
		32	10310	8710	7260	5970	4820	3820	2960	2230	1620	1120
		43		7330	6070	4940	3950	3090	2350	1720	1200	760
AU2-H281SB	L	27	10650	9050	7600	6280	5110	4070	3180	2420	1790	1270
		32	9950	8440	7070	5830	4720	3750	2910	2200	1600	1100
		43		7090	5890	4820	3860	3030	2310	1700	1180	755
AU-H281CC	H	27				6130	5080	4130	3270	2520	1880	1350
		32				5660	4680	3790	2990	2280	1680	1190
		43					3810	3050	2370	1780	1280	855
AU2-H281CC	H	27				6220	5150	4180	3310	2540	1890	1360
		32				5750	4740	3830	3010	2300	1690	1190
		43					3870	3090	2390	1790	1280	860
AU-H281CS	L	27		10130	8510	7040	5740	4570	3570	2720	2000	1430
		32			7920	6540	5290	4200	3260	2460	1800	1250
		43			6630	5430	4350	3410	2600	1920	1360	905
AU2-H281CS	L	27			8260	6870	5610	4480	3510	2680	1980	1410
		32			7690	6360	5180	4120	3210	2430	1780	1240
		43			6420	5270	4240	3340	2560	1890	1340	895
AU-H290CS	L	27			9390	7800	6380	5110	4030	3110	2330	1700
		32			8720	7220	5890	4700	3680	2820	2100	1500
		43			7260	5960	4810	3800	2930	2200	1580	1070
AU2-H290CS	L	27			9080	7580	6220	5010	3960	3060	2300	1680
		32			8430	7010	5740	4600	3620	2780	2070	1480
		43				5770	4690	3710	2880	2160	1560	1060
AU-H300CC	H	27	14570	12270	10180	8330	6710	5320	4140	3150	2330	1670
		32	13620	11420	9460	7710	6200	4900	3790	2870	2100	1470
		43	11460	9570	7860	6380	5090	3980	3040	2250	1600	1050
AU2-H300CC	H	27	13830	11710	9780	8060	6520	5190	4050	3090	2300	1650
		32	12890	10890	9080	7460	6020	4780	3710	2820	2070	1460
		43		9080	7530	6140	4920	3870	2970	2210	1570	1040

Type	Application range	Cond. temp. [°C]	Evaporating temperature [°C] / cooling capacity [W] - R407F									
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
AU-H300CS	L	27			9930	8270	6780	5460	4320	3350	2530	1860
		32			9230	7670	6270	5030	3960	3050	2280	1650
		43				6350	5150	4090	3180	2410	1760	1210
AU2-H300CS	L	27			9580	8020	6610	5350	4240	3290	2500	1840
		32				7430	6100	4920	3880	3000	2250	1630
		43				6140	5000	3990	3120	2370	1730	1190
AU-H350CC	H	27	15460	13040	10880	8930	7240	5780	4540	3490	2620	1910
		32	14440	12170	10130	8290	6710	5340	4170	3190	2370	1700
		43		10230	8470	6900	5540	4370	3370	2540	1830	1240
AU2-H351CC	H	27	14620	12430	10420	8620	7030	5630	4440	3430	2580	1880
		32	13630	11560	9690	8000	6500	5200	4080	3130	2340	1670
		43		9670	8060	6630	5350	4240	3290	2490	1800	1220
AU-H350SB	L	27				8900	7340	5950	4720	3680	2800	2070
		32				8260	6790	5490	4340	3360	2540	1850
		43					5620	4500	3530	2700	1990	1390
AU2-H350SB	L	27				8610	7130	5800	4630	3620	2760	2040
		32					6600	5360	4250	3310	2500	1830
		43					5440	4390	3450	2640	1960	1370
AU-H380CC	H	27		14070	11810	9780	7960	6380	5020	3870	2910	2130
		32			11000	9080	7380	5900	4620	3540	2640	1900
		43				7550	6100	4830	3750	2830	2070	1440
AU2-H381CC	H	27			11260	9390	7700	6200	4900	3790	2860	2100
		32			10480	8710	7130	5720	4510	3470	2590	1870
		43				7220	5860	4680	3640	2770	2030	1420
AU-H390CS	L	27			11530	9710	8050	6570	5250	4110	3140	2340
		32				9000	7460	6070	4840	3780	2870	2120
		43					6170	4990	3950	3050	2290	1640
AU2-H390CS	L	27				9350	7800	6390	5140	4040	3100	2310
		32				8660	7210	5900	4730	3700	2830	2090
		43					5940	4840	3860	2990	2250	
AU-H392CS	L	27						7530	5960	4600	3470	2540
		32						6950	5470	4200	3140	2260
		43							4460	3360	2450	
AU2-H392CS	L	27						7840	6150	4740	3560	2600
		32						7250	5660	4330	3220	2310
		43						5980	4610	3460	2520	1730
AU-H403CC	H	27	18170	15340	12770	10470	8430	6680	5180	3940	2920	2120
		32	16990	14300	11880	9710	7800	6150	4750	3590	2650	
		43		11990	9880	8000	6370	4970	3810			
AU2-H403CC	H	27	17040	14490	12150	10040	8140	6470	5050	3850	2870	
		32	15870	13480	11270	9290	7510	5950	4620	3510		
		43			9330	7620	6100	4800				
AU-H403CS	L	27			13030	10980	9100	7390	5890	4570	3460	2530
		32				10170	8400	6810	5390	4160	3110	2240
		43					6820	5480	4280	3240	2350	1610

Type	Application range	Cond. temp. [°C]	Evaporating temperature [°C] / cooling capacity [W] - R407F									
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0
AU2-H404CS	L	27			13830	11550	9500	7670	6060	4690	3530	2580
		32			12860	10730	8800	7080	5560	4270	3190	2280
		43				8850	7200	5720	4440	3340	2420	1640
AU-H503CC	H	27	20830	17800	14990	12440	10140	8090	6310	4790	3530	2500
		32	19420	16570	13940	11530	9370	7440	5770	4350	3170	2200
		43		13840	11570	9500	7640	6010	3390	3390	2390	1580
AU2-H503CC	H	27	21470	18290	15360	12690	10310	8200	6390	4850	3560	2510
		32	20050	17040	14290	11780	9530	7550	5850	4400	3190	2210
		43		14280	11880	9720	7790	6110	4660	3430	2410	1590
AU-H503CS	L	27			16930	14150	11640	9420	7470	5810	4420	3250
		32			15780	13160	10800	8720	6870	5320	4000	2900
		43			13160	10910	8870	7070	5520	4190	3070	2140
AU2-H503CS	L	27			17370	14470	11870	9560	7580	5880	4460	3280
		32			16220	13480	11020	8850	6980	5380	4040	2930
		43			13590	11200	9090	7210	5610	4250	3100	2160
AU2-H743CC	H	27	23460	20080	16960	14120	11550	9270	7310	5630	4220	3050
		32	21800	18660	15730	13070	10670	8550	6720	5140	3820	2710
		43			13040	10780	8740	6960	5410	4070	2930	1950
AU2-H701CS	L	27			19120	16020	13210	10670	8420	6480	4830	3470
		32			17770	14860	12210	9840	7720	5910	4360	3080
		43			14930	12410	10110	8050	6260	4710	3390	2280
AU2-H751CC	H	27	29980	25330	21130	17350	4010	11130	8660	6610	4920	3550
		32	28030	23630	19670	16130	12990	10290	7990	6070	4480	3190
		43		20010	16570	13510	10820	8520	6570	4940	3570	2440
AU2-H751CS	L	27			21940	18320	15040	12130	9580	7350	5480	3920
		32			20580	17110	14000	11230	8790	6700	4930	3440
		43					11870	9390	7230	5370	3790	2440
AU2-H851CS	L	27			26650	22130	18060	14460	11310	8630	6400	4560
		32			24810	20550	16700	13300	10350	7840	5740	4010
		43			20800	17080	13740	10800	8270	6130	4330	2840
AU2-H1002CC	H	27	34000	28880	24200	19950	16180	12860	10030	7640	5660	4050
		32	31770	26930	22500	18510	14980	11870	9220	6980	5130	3600
		43			18900	15450	12420	9760	7510	5610	4010	2670
AU2-H1001CS	L	27			29450	24630	20270	16350	12880	9910	7390	5320
		32			27350	22830	18720	15040	11770	8990	6640	4680
		43				18850	15310	12140	9370	6990	4980	3290

**Compressors  
Frascold**

R404A

Values: for T 20°C suction temperature without liquid subcooling, overheating 10 K.

Code	Type	Displ. [m³/h]	Max. input [kW]	Oil charge [l]	Connection		Diameters [mm]			Weight [kg]
					suction	discharge	length	width	height	
47-32FRA-A1-6Y	A1-6Y	5,47	2	1	5/8	1/2	317	237	275	36
47-32FRA-A1-7Y	A1-7Y	6,91	2,1	1	5/8	1/2	317	237	275	36
47-32FRA-A1.5-7Y	A1.5-7Y	6,91	2,3	1	5/8	1/2	317	237	275	36
47-32FRA-A1.5-8Y	A1.5-8Y	7,65	2,3	1	5/8	1/2	317	237	275	36
47-32FRA-B1.5-9.1Y	B1.5-9.1Y	8,96	3,3	1	5/8	1/2	329	237	292	38
47-32FRA-B1.5-10.1Y	B1.5-10.1Y	9,88	3,1	1	5/8	1/2	329	237	292	38
47-32FRA-B2-10.1Y	B2-10.1Y	9,88	3,6	1	5/8	1/2	329	237	292	40
47-32FRA-D2-11.1Y	D2-11.1Y	11,26	4,1	1,1	7/8	5/8	369	242	294	45
47-32FRA-D2-13.1Y	D2-13.1Y	13,15	4,1	1,1	7/8	5/8	369	242	294	45
47-32FRA-D3-13.1Y	D3-13.1Y	13,15	4,8	1,1	1.1/8	5/8	374	242	317	49
47-32FRA-D2-15.1Y	D2-15.1Y	15,36	4,7	1,1	1.1/8	5/8	369	242	294	45
47-32FRA-D3-15.1Y	D3-15.1Y	15,36	5,7	1,1	1.1/8	5/8	374	242	317	49
47-32FRA-D3-16.1Y	D3-16.1Y	16,40	5,4	1,1	1.1/8	5/8	374	242	317	49
47-32FRA-D4-16.1Y	D4-16.1Y	16,40	6,2	1,2	1.1/8	3/4	401	242	317	51
47-32FRA-D3-18.1Y	D3-18.1Y	17,93	5,5	1,1	1.1/8	5/8	374	242	317	49
47-32FRA-D4-18.1Y	D4-18.1Y	17,93	6,7	1,2	1.1/8	3/4	401	242	317	51
47-32FRA-D3-19.1Y	D3-19.1Y	19,12	5,4	1,1	1.1/8	5/8	374	242	317	49
47-32FRA-D4-19.1Y	D4-19.1Y	19,12	6,4	1,2	1.1/8	3/4	401	242	317	51
47-32FRA-Q4-20.1Y	Q4-20.1Y	19,77	5,7	1,6	1.1/8	3/4	449	286	325	74
47-32FRA-Q4-21.1Y	Q4-21.1Y	21,18	5,7	1,6	1.1/8	3/4	449	286	325	79
47-32FRA-Q5-21.1Y	Q5-21.1Y	21,18	6,6	1,6	1.1/8	3/4	449	286	325	79
47-32FRA-Q4-24.1Y	Q4-24.1Y	23,91	6,8	1,6	1.1/8	3/4	449	286	325	79
47-32FRA-Q5-24.1Y	Q5-24.1Y	23,91	7,9	1,6	1.1/8	7/8	449	286	325	79
47-32FRA-Q4-25.1Y	Q4-25.1Y	24,69	7,0	1,6	1.1/8	3/4	449	286	325	77
47-32FRA-Q5-25.1Y	Q5-25.1Y	24,69	8,5	1,6	1.1/8	7/8	449	286	325	79
47-32FRA-Q7-25.1Y	Q7-25.1Y	24,69	8,4	1,6	1.1/8	7/8	449	286	325	79
47-32FRA-Q5-28.1Y	Q5-28.1Y	28,02	4,7	1,6	1.1/8	7/8	449	286	328	79
47-32FRA-Q7-28.1Y	Q7-28.1Y	28,02	9,5	1,6	1.3/8	1.1/8	449	286	328	79
47-32FRA-Q5-33.1Y	Q5-33.1Y	32,66	8,3	1,6	1.3/8	1.1/8	449	286	328	79
47-32FRA-Q7-33.1Y	Q7-33.1Y	32,66	11,2	1,6	1.3/8	1.1/8	449	286	328	79
47-32FRA-Q7-36.1Y	Q7-36.1Y	35,86	10,8	1,6	1.3/8	1.1/8	449	286	328	79
47-32FRA-S5-33Y	S5-33Y	32,80	7,8	2,9	1.3/8	1.1/8	550	405	405	115
47-32FRA-S7-33Y	S7-33Y	32,80	11,1	2,9	1.3/8	1.1/8	550	405	405	117
47-32FRA-Q5-36.1Y	Q5-36.1Y	35,86	6,9	1,6	1.3/8	1.1/8	449	286	328	79
47-32FRA-S8-42Y	S8-42Y	41,32	11,8	2,9	1.3/8	1.1/8	550	405	405	117
47-32FRA-S12-42Y	S12-42Y	41,32	12,9	2,9	1.3/8	1.1/8	550	405	405	120
47-32FRA-S10-52Y	S10-52Y	51,50	14,9	2,9	1.3/8	1.1/8	550	405	405	120
47-32FRA-S15-52Y	S15-52Y	51,50	17,8	2,9	1.3/8	1.1/8	550	405	405	126
47-32FRA-S15-56Y	S15-56Y	56,00	16,5	2,9	1.3/8	1.1/8	550	405	405	130
47-32FRA-S20-56Y	S20-56Y	56,00	19,6	2,9	1.3/8	1.1/8	550	405	405	132



Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0	-45,0
A1-6Y	30	Q <sub>o</sub>	6217	5190	4277	3472	2770	2165	1652	1226	880	610	410
		P <sub>e</sub>	1,08	1,1	1,09	1,05	1	0,92	0,84	0,75	0,66	0,57	0,49
	40	Q <sub>o</sub>	5156	4285	3514	2836	2247	1742	1313	957	668	439	267
		P <sub>e</sub>	1,34	1,31	1,26	1,18	1,09	0,98	0,87	0,76	0,66	0,56	0,48
	50	Q <sub>o</sub>	4106	3392	2763	2213	1738	1331	988	702	469	283	
		P <sub>e</sub>	1,57	1,49	1,4	1,28	1,16	1,03	0,9	0,77	0,65	0,55	
A1-7Y	30	Q <sub>o</sub>			5400	4429	3587	2862	2244	1721	1280	912	604
		P <sub>e</sub>			1,52	1,44	1,35	1,25	1,14	1,01	0,89	0,75	0,61
	40	Q <sub>o</sub>			4488	3659	2943	2329	1804	1358	979	656	377
		P <sub>e</sub>			1,73	1,61	1,48	1,33	1,18	1,02	0,86	0,69	0,52
	50	Q <sub>o</sub>			3611	2919	2324	1815	1379	1005	683	400	
		P <sub>e</sub>			1,91	1,75	1,57	1,38	1,19	1	0,79	0,59	
A1.5-7Y	30	Q <sub>o</sub>	8113	6743	5540	4493	3591	2823	2177	1642	1208	862	
		P <sub>e</sub>	1,48	1,45	1,4	1,33	1,25	1,15	1,05	0,94	0,83	0,72	
	40	Q <sub>o</sub>	6816	5638	4611	3723	2963	2320	1782	1339	980	693	
		P <sub>e</sub>	1,77	1,69	1,59	1,48	1,36	1,23	1,1	0,97	0,84	0,73	
	50	Q <sub>o</sub>	5587	4592	3730	2991	2363	1836	1397	1036	742	504	
		P <sub>e</sub>	2,01	1,89	1,75	1,6	1,45	1,29	1,14	0,99	0,85	0,73	
A1.5-8Y	30	Q <sub>o</sub>	8418	7014	5794	4742	3841	3075	2428	1884	1425	1037	702
		P <sub>e</sub>	1,69	1,67	1,62	1,55	1,46	1,34	1,22	1,09	0,95	0,8	0,66
	40	Q <sub>o</sub>	7171	5937	4872	3960	3185	2529	1977	1512	1118	779	478
		P <sub>e</sub>	2,02	1,95	1,84	1,72	1,58	1,43	1,28	1,11	0,95	0,79	0,63
	50	Q <sub>o</sub>	5957	4893	3982	3208	2556	2008	1549	1162	830	539	
		P <sub>e</sub>	2,32	2,18	2,03	1,87	1,69	1,51	1,32	1,13	0,95	0,77	
B1.5-9.1Y	30	Q <sub>o</sub>	9835	8180	6734	5483	4412	3505	2747	2123	1618	1217	904
		P <sub>e</sub>	2,08	2,02	1,93	1,83	1,7	1,57	1,43	1,29	1,15	1,02	0,91
	40	Q <sub>o</sub>	8401	6953	5697	4617	3699	2927	2286	1762	1338	1000	733
		P <sub>e</sub>	2,53	2,39	2,24	2,07	1,89	1,71	1,54	1,37	1,21	1,07	0,95
	50	Q <sub>o</sub>	6908	5674	4614	3713	2955	2326	1810	1392	1057	790	
		P <sub>e</sub>	2,9	2,7	2,48	2,26	2,04	1,82	1,61	1,42	1,25	1,1	
B1.5-10.1Y	30	Q <sub>o</sub>			7300	6022	4902	3928	3089	2373	1767	1261	842
		P <sub>e</sub>			2,15	2,07	1,96	1,81	1,63	1,44	1,25	1,06	0,88
	40	Q <sub>o</sub>			6145	5049	4093	3265	2553	1946	1431	997	633
		P <sub>e</sub>			2,46	2,31	2,13	1,93	1,71	1,49	1,27	1,07	0,88
	50	Q <sub>o</sub>			5048	4132	3338	2654	2068	1567	1142	779	
		P <sub>e</sub>			2,75	2,53	2,3	2,05	1,8	1,55	1,32	1,11	
B2-10.1Y	30	Q <sub>o</sub>	10763	9009	7463	6111	4939	3933	3081	2367	1778	1301	
		P <sub>e</sub>	2,31	2,29	2,23	2,13	2,01	1,86	1,7	1,52	1,35	1,19	
	40	Q <sub>o</sub>	9107	7601	6280	5131	4140	3292	2575	1974	1476	1066	
		P <sub>e</sub>	2,76	2,66	2,53	2,37	2,19	1,99	1,79	1,59	1,41	1,23	
	50	Q <sub>o</sub>	7508	6248	5151	4202	3389	2698	2113	1623	1213		
		P <sub>e</sub>	3,17	3	2,8	2,58	2,35	2,11	1,88	1,67	1,47		

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0	-45,0
D2-11.1Y	30	Q <sub>o</sub>	12862	10744	8884	7265	5868	4673	3659	2809	2104	1525	
		P <sub>e</sub>	2,48	2,46	2,4	2,29	2,16	1,99	1,82	1,63	1,44	1,26	
	40	Q <sub>o</sub>	10864	9050	7465	6089	4904	3891	3029	2301	1686	1166	
		P <sub>e</sub>	3,01	2,9	2,76	2,58	2,38	2,16	1,94	1,71	1,5	1,31	
	50	Q <sub>o</sub>	8845	7337	6027	4896	3924	3094	2386	1779	1257		
		P <sub>e</sub>	3,47	3,28	3,06	2,81	2,55	2,29	2,03	1,78	1,55		
D2-13.1Y	30	Q <sub>o</sub>			10326	8506	6919	5548	4378	3391	2571	1901	1366
		P <sub>e</sub>			2,87	2,74	2,57	2,38	2,16	1,93	1,7	1,46	1,24
	40	Q <sub>o</sub>			8762	7192	5831	4661	3668	2833	2141	1574	1118
		P <sub>e</sub>			3,28	3,08	2,85	2,6	2,33	2,06	1,8	1,54	1,3
	50	Q <sub>o</sub>			7255	5933	4795	3824	3005	2320	1753	1288	
		P <sub>e</sub>			3,74	3,47	3,17	2,87	2,55	2,24	1,95	1,66	
D3-13.1Y	30	Q <sub>o</sub>	15124	12636	10454	8552	6906	5491	4282	3255			
		P <sub>e</sub>	2,88	2,86	2,79	2,68	2,52	2,33	2,12	1,9			
	40	Q <sub>o</sub>	12705	10598	8756	7152	5764	4564	3530	2636			
		P <sub>e</sub>	3,51	3,38	3,21	3	2,76	2,51	2,25	1,98			
	50	Q <sub>o</sub>	10390	8660	7152	5843	4706	3718	2854	2088			
		P <sub>e</sub>	4,11	3,88	3,61	3,33	3,02	2,72	2,42	2,12			
D2-15.1Y	30	Q <sub>o</sub>			11535	9512	7747	6221	4915	3811	2889	2130	1517
		P <sub>e</sub>			3,38	3,22	3,02	2,79	2,54	2,27	1,99	1,7	1,41
	40	Q <sub>o</sub>			9672	7961	6475	5196	4103	3179	2405	1761	1229
		P <sub>e</sub>			3,86	3,62	3,36	3,07	2,76	2,43	2,1	1,77	1,44
	50	Q <sub>o</sub>			7945	6533	5313	4266	3373	2615	1974	1431	
		P <sub>e</sub>			4,32	4,01	3,68	3,33	2,96	2,59	2,21	1,83	
D3-15.1Y	30	Q <sub>o</sub>	17155	14417	12010	9911	8096	6543	5227	4124			
		P <sub>e</sub>	3,44	3,52	3,49	3,37	3,18	2,95	2,68	2,4			
	40	Q <sub>o</sub>	14526	12191	10147	8369	6834	5519	4400	3454			
		P <sub>e</sub>	4,34	4,24	4,06	3,81	3,52	3,2	2,86	2,54			
	50	Q <sub>o</sub>	11831	9911	8240	6795	5551	4486	3576	2798			
		P <sub>e</sub>	5,1	4,85	4,54	4,18	3,8	3,41	3,03	2,68			
D3-16.1Y	30	Q <sub>o</sub>			12721	10514	8577	6893	5441	4200	3152	2275	1551
		P <sub>e</sub>			3,7	3,48	3,24	2,97	2,68	2,37	2,05	1,73	1,4
	40	Q <sub>o</sub>			10777	8867	7197	5748	4500	3433	2527	1763	1120
		P <sub>e</sub>			4,33	4,01	3,65	3,28	2,9	2,51	2,12	1,74	1,36
	50	Q <sub>o</sub>			8876	7260	5854	4638	3592	2697	1932	1277	
		P <sub>e</sub>			4,93	4,49	4,03	3,56	3,09	2,62	2,16	1,72	
D4-16.1Y	30	Q <sub>o</sub>	18799	15745	13058	10713	8679	6931	5441	4180			
		P <sub>e</sub>	3,83	3,79	3,68	3,52	3,3	3,04	2,76	2,45			
	40	Q <sub>o</sub>	16131	13488	11169	9147	7394	5882	4584	3471			
		P <sub>e</sub>	4,66	4,49	4,26	3,99	3,67	3,33	2,97	2,6			
	50	Q <sub>o</sub>	13396	11181	9246	7563	6106	4846	3756	2808			
		P <sub>e</sub>	5,42	5,12	4,78	4,4	3,99	3,57	3,13	2,7			

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0	-45,0
D3-18.1Y	30	Q <sub>o</sub>			13895	11541	9481	7693	6155	4847	3747	2832	2083
		P <sub>e</sub>			4,15	3,97	3,73	3,45	3,13	2,8	2,47	2,14	1,83
	40	Q <sub>o</sub>			11790	9764	8000	6475	5168	4057	3121	2339	1689
		P <sub>e</sub>			4,86	4,52	4,15	3,75	3,34	2,94	2,54	2,17	1,85
	50	Q <sub>o</sub>			9739	8040	6569	5305	4226	3311	2538	1887	
		P <sub>e</sub>			5,5	5,02	4,53	4,03	3,53	3,06	2,62	2,22	
D4-18.1Y	30	Q <sub>o</sub>	19831	16745	14012	11608	9508	7689	6125	4791			
		P <sub>e</sub>	4,32	4,21	4,04	3,83	3,59	3,32	3,04	2,77			
	40	Q <sub>o</sub>	16916	14272	11937	9889	8102	6553	5216	4068			
		P <sub>e</sub>	5,16	4,93	4,66	4,35	4,01	3,67	3,32	2,99			
	50	Q <sub>o</sub>	13909	11731	9820	8153	6705	5452	4368	3431			
		P <sub>e</sub>	5,98	5,64	5,26	4,85	4,44	4,02	3,61	3,23			
D3-19.1Y	30	Q <sub>o</sub>					10017	8173	6587	5237	4099	3150	2368
		P <sub>e</sub>					4,05	3,76	3,42	3,07	2,71	2,36	2,03
	40	Q <sub>o</sub>					8508	6938	5590	4443	3472	2656	1972
		P <sub>e</sub>					4,56	4,14	3,7	3,27	2,85	2,45	2,09
	50	Q <sub>o</sub>					6987	5695	4590	3651	2854	2176	
		P <sub>e</sub>					4,98	4,45	3,93	3,43	2,95	2,52	
D4-19.1Y	30	Q <sub>o</sub>			14880	12243	9975	8041	6409	5044	3912	2981	2215
		P <sub>e</sub>			4,29	4,11	3,88	3,62	3,33	3,04	2,75	2,48	2,24
	40	Q <sub>o</sub>			12578	10347	8435	6806	5429	4268	3290	2462	1750
		P <sub>e</sub>			4,95	4,66	4,34	3,98	3,61	3,24	2,88	2,54	2,23
	50	Q <sub>o</sub>			10357	8519	6948	5611	4474	3503	2666	1927	
		P <sub>e</sub>			5,68	5,28	4,84	4,38	3,91	3,44	2,99	2,57	
Q4-20.1Y	30	Q <sub>o</sub>			14773	12190	9934	7981	6308	4893	3712	2743	1963
		P <sub>e</sub>			3,94	3,71	3,44	3,16	2,85	2,54	2,22	1,92	1,63
	40	Q <sub>o</sub>			12745	10452	8458	6741	5277	4044	3019	2179	1500
		P <sub>e</sub>			4,61	4,25	3,86	3,46	3,06	2,67	2,29	1,93	1,6
	50	Q <sub>o</sub>			10651	8661	6943	5474	4232	3195	2337	1638	
		P <sub>e</sub>			5,19	4,7	4,2	3,7	3,21	2,74	2,3	1,89	
Q4-21.1Y	30	Q <sub>o</sub>			16354	13354	10755	8528	6640	5061	3759	2704	1864
		P <sub>e</sub>			4,1	3,91	3,66	3,36	3,03	2,67	2,32	1,97	1,66
	40	Q <sub>o</sub>			13856	11228	8965	7038	5414	4062	2952	2051	1329
		P <sub>e</sub>			4,84	4,47	4,07	3,64	3,2	2,76	2,35	1,96	1,63
	50	Q <sub>o</sub>			11230	8996	7092	5485	4146	3043	2145	1420	
		P <sub>e</sub>			5,34	4,83	4,3	3,76	3,24	2,74	2,29	1,89	
Q5-21.1Y	30	Q <sub>o</sub>	23567	19812	16466	13502	10895	8618	6644	4948			
		P <sub>e</sub>	4,16	4,18	4,11	3,95	3,71	3,4	3,04	2,61			
	40	Q <sub>o</sub>	19832	16633	13785	11262	9038	7086	5381	3895			
		P <sub>e</sub>	5,07	4,95	4,75	4,46	4,1	3,67	3,19	2,66			
	50	Q <sub>o</sub>	16070	13429	11081	9001	7162	5538	4103	2830			
		P <sub>e</sub>	5,82	5,57	5,24	4,83	4,35	3,81	3,21	2,57			

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0	-45,0
Q4-24.1Y	30	Q <sub>o</sub>			18258	15039	12223	9781	7683	5900	4402	3159	2143
		P <sub>e</sub>			4,81	4,52	4,19	3,83	3,45	3,05	2,65	2,25	1,87
	40	Q <sub>o</sub>			15275	12534	10143	8074	6297	4782	3500	2421	1516
		P <sub>e</sub>			5,61	5,16	4,69	4,21	3,72	3,23	2,74	2,28	1,85
	50	Q <sub>o</sub>			12383	10108	8130	6422	4953	3695	2617	1690	
		P <sub>e</sub>			6,28	5,69	5,09	4,49	3,9	3,33	2,78	2,26	
Q5-24.1Y	30	Q <sub>o</sub>	27077	22624	18707	15286	12324	9781	7621	5804			
		P <sub>e</sub>	5,03	4,94	4,77	4,53	4,23	3,88	3,5	3,09			
	40	Q <sub>o</sub>	22873	19060	15716	12801	10279	8109	6254	4676			
		P <sub>e</sub>	6,11	5,85	5,52	5,13	4,7	4,24	3,75	3,26			
	50	Q <sub>o</sub>	18574	15425	12677	10292	8233	6459	4934	3618			
		P <sub>e</sub>	7,1	6,67	6,19	5,66	5,1	4,53	3,94	3,36			
Q4-25.1Y	30	Q <sub>o</sub>			18778	15437	12512	9973	7794	5944	4396	3121	2090
		P <sub>e</sub>			4,89	4,59	4,24	3,85	3,44	3,01	2,58	2,15	1,74
	40	Q <sub>o</sub>			15813	12913	10388	8207	6343	4767	3450	2364	1481
		P <sub>e</sub>			5,7	5,22	4,71	4,18	3,64	3,11	2,58	2,08	1,62
	50	Q <sub>o</sub>			12924	10468	8343	6521	4974	3673	2589	1694	
		P <sub>e</sub>			6,4	5,75	5,09	4,42	3,77	3,14	2,54	1,98	
Q5-25.1Y	30	Q <sub>o</sub>	27872	23293	19273	15771	12747	10159	7968	6134	4615	3370	
		P <sub>e</sub>	5,17	5,09	4,94	4,72	4,44	4,1	3,73	3,32	2,88	2,44	
	40	Q <sub>o</sub>	23541	19641	16228	13262	10702	8507	6637	5051	3709	2571	
		P <sub>e</sub>	6,34	6,08	5,76	5,38	4,95	4,48	3,98	3,046	2,93	2,4	
	50	Q <sub>o</sub>	19188	15968	13164	10735	8639	6838	5290	3954			
		P <sub>e</sub>	7,37	6,93	6,44	5,9	5,33	4,73	4,12	3,49			
Q7-25.1Y	30	Q <sub>o</sub>	28897	23966	19659	15930	12738	10037	7783	5933	4443	3269	
		P <sub>e</sub>	5,33	5,24	5,06	4,8	4,48	4,12	3,74	3,35	2,96	2,61	
	40	Q <sub>o</sub>	24066	19892	16270	13157	10508	8280	6429	4910	3681	2696	
		P <sub>e</sub>	6,43	6,14	5,78	5,37	4,92	4,46	3,99	3,54	3,12	2,74	
	50	Q <sub>o</sub>	19537	16097	13139	10618	8490	6712	5240	4030			
		P <sub>e</sub>	7,37	6,91	6,4	5,86	5,3	4,76	4,23	3,74			
Q5-28.1Y	30	Q <sub>o</sub>			21828	18036	14716	11833	9353	7241	5464	3987	2776
		P <sub>e</sub>			5,9	5,55	5,16	4,73	4,28	3,8	3,3	2,79	2,28
	40	Q <sub>o</sub>			18419	15164	12325	9866	7755	5956	4435	3158	2092
		P <sub>e</sub>			6,79	6,28	5,75	5,18	4,6	4,01	3,41	2,81	2,23
	50	Q <sub>o</sub>			15037	12320	9962	7928	6185	4699	3435	2358	
		P <sub>e</sub>			7,54	6,88	6,21	5,51	4,82	4,12	3,43	2,75	
Q7-28.1Y	30	Q <sub>o</sub>	31964	26815	22280	18314	14870	11906	9374	7231			
		P <sub>e</sub>	6,34	6,15	5,9	5,61	5,26	4,87	4,44	3,98			
	40	Q <sub>o</sub>	27134	22726	18856	15479	12550	10024	7855	6000			
		P <sub>e</sub>	7,51	7,15	6,74	6,29	5,81	5,29	4,75	4,18			
	50	Q <sub>o</sub>	22283	18615	15409	12621	10205	8117	6310	4741			
		P <sub>e</sub>	8,6	8,07	7,5	6,91	6,29	5,65	4,99	4,32			

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0	-45,0
Q5-33.1Y	30	Q <sub>o</sub>			25201	20904	17148	13892	11091	8703	6685	4994	3588
		P <sub>e</sub>			6,9	6,58	6,15	5,65	5,09	4,51	3,93	3,37	2,87
	40	Q <sub>o</sub>			21309	17614	14401	11628	9251	7227	5514	4068	2847
		P <sub>e</sub>			8,22	7,61	6,93	6,22	5,49	4,76	4,07	3,44	2,9
	50	Q <sub>o</sub>					11799	9500	7537	5868	4450	3240	
		P <sub>e</sub>					7,63	6,72	5,83	4,98	4,2	3,51	
Q7-33.1Y	30	Q <sub>o</sub>	36974	30974	25708	21122	17162	13774	10905	8500			
		P <sub>e</sub>	7,48	7,29	6,99	6,59	6,12	5,61	5,08	4,57			
	40	Q <sub>o</sub>	31368	26248	21766	17867	14497	11603	9130	7025			
		P <sub>e</sub>	8,84	8,42	7,91	7,33	6,69	6,04	5,4	4,79			
	50	Q <sub>o</sub>	25698	21468	17778	14574	11804	9412	7344	5548			
		P <sub>e</sub>	10,07	9,44	8,74	7,99	7,21	6,44	5,69	5,01			
Q7-36.1Y	30	Q <sub>o</sub>			29191	24167	19770	15951	12666	9868	7511	5549	3936
		P <sub>e</sub>			7,88	7,42	6,9	6,33	5,72	5,09	4,45	3,82	3,2
	40	Q <sub>o</sub>			24673	20325	16534	13256	10442	8048	6028	4334	2921
		P <sub>e</sub>			9,1	8,4	7,65	6,88	6,1	5,31	4,54	3,79	3,08
	50	Q <sub>o</sub>			20173	16505	13328	10594	8258	6273	4594	3173	
		P <sub>e</sub>			10,11	9,18	8,23	7,27	6,33	5,4	4,51	3,66	
S5-33Y	30	Q <sub>o</sub>			25844	21322	17467	14197	11429	9081	7071	5317	3737
		P <sub>e</sub>			6,3	6,15	5,89	5,54	5,11	4,63	4,11	3,57	3,03
	40	Q <sub>o</sub>			22272	18313	14954	12113	9708	7657	5878	4289	2807
		P <sub>e</sub>			7,68	7,34	6,9	6,36	5,76	5,11	4,43	3,73	3,04
	50	Q <sub>o</sub>				15270	12393	9968	7913	6145	4583	3145	
		P <sub>e</sub>				8,48	7,83	7,1	6,31	5,47	4,6	3,72	
S7-33Y	30	Q <sub>o</sub>	36857	30862	25662	21178	17327	14029	11201	8763	6633	4730	
		P <sub>e</sub>	6,82	6,8	6,64	6,35	5,95	5,48	4,95	4,39	3,82	3,27	
	40	Q <sub>o</sub>	31575	26422	21963	18114	14796	11926	9424	7207	5195	3307	
		P <sub>e</sub>	8,6	8,31	7,89	7,37	6,77	6,11	5,43	4,73	4,05	3,42	
	50	Q <sub>o</sub>	26225	21915	18194	14981	12194	9752	7574	5578			
		P <sub>e</sub>	10,2	9,64	8,97	8,23	7,43	6,6	5,76	4,94			
S8-42Y	30	Q <sub>o</sub>			33430	27691	22663	18287	14504	11257	8487	6137	4147
		P <sub>e</sub>			8,67	8,15	7,56	6,91	6,22	5,49	4,74	3,97	3,21
	40	Q <sub>o</sub>			28341	23401	19083	15328	12078	9276	6862	4778	2967
		P <sub>e</sub>			9,93	9,17	8,35	7,5	6,62	5,73	4,83	3,94	3,07
	50	Q <sub>o</sub>			22954	18862	15302	12218	9550	7240	5230	3463	
		P <sub>e</sub>			10,91	9,92	8,91	7,88	6,84	5,8	4,78	3,78	
S12-42Y	30	Q <sub>o</sub>	45911	38508	31958	26205	21195	16872	13181	10068			
		P <sub>e</sub>	8,63	8,37	7,98	7,5	6,94	6,31	5,64	4,95			
	40	Q <sub>o</sub>	39041	32568	26869	21889	17573	13866	10713	8059			
		P <sub>e</sub>	10,32	9,75	9,09	8,36	7,57	6,74	5,9	5,06			
	50	Q <sub>o</sub>	32203	26668	21829	17629	14016	10933	8325	6138			
		P <sub>e</sub>	11,76	10,9	9,98	9,02	8,02	7,01	6,01	5,04			

Type	Cond. tem. [°C]	Capacity / Input	Evaporating temperature [°C]										
			5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0	-45,0
S10-52Y	30	Q <sub>o</sub>			39744	32862	26979	21974	17724	14105	10995	8270	5809
		P <sub>e</sub>			10,59	10,06	9,37	8,56	7,68	6,76	5,85	4,99	5,22
	40	Q <sub>o</sub>			34176	28191	23096	18767	15081	11915	9146	6651	4308
		P <sub>e</sub>			12,48	11,61	10,62	9,54	8,42	7,3	6,22	5,23	4,35
	50	Q <sub>o</sub>			28585	23477	19147	15471	12327	9591	7142	4855	
		P <sub>e</sub>			14,16	12,97	11,69	10,36	9,01	7,7	6,46	5,34	
S15-52Y	30	Q <sub>o</sub>	58615	49134	40907	33806	27703	22470	17979	14102			
		P <sub>e</sub>	10,59	10,48	10,17	9,67	9,04	8,31	7,51	6,69			
	40	Q <sub>o</sub>	50269	42130	35080	28990	23731	19177	15200	11671			
		P <sub>e</sub>	13,15	12,62	11,93	11,1	10,18	9,2	8,19	7,2			
	50	Q <sub>o</sub>	41797	35001	29128	24050	19638	15764	12301	9121			
		P <sub>e</sub>	15,44	14,51	13,46	12,32	11,12	9,9	8,71	7,57			
S15-56Y	30	Q <sub>o</sub>			44655	36854	30178	24491	19660	15549	12024	8950	6192
		P <sub>e</sub>			11,46	10,88	10,15	9,29	8,35	7,38	6,41	5,48	4,65
	40	Q <sub>o</sub>			38401	31601	25801	20867	16665	13059	9914	7097	4472
		P <sub>e</sub>			13,35	12,43	11,37	10,23	9,04	7,85	6,7	5,63	4,69
	50	Q <sub>o</sub>			32058	26245	21309	17114	13527	10412	7635	5061	
		P <sub>e</sub>			15,03	13,76	12,4	10,98	9,55	8,15	6,83	5,63	
S20-56Y	30	Q <sub>o</sub>	64238	53901	44920	37160	30483	24753	19832	15584			
		P <sub>e</sub>	12,21	11,97	11,5	10,86	10,07	9,19	8,26	7,32			
	40	Q <sub>o</sub>	55173	46291	38587	31922	26161	21166	16801	12928			
		P <sub>e</sub>	14,84	14,14	13,27	12,27	11,18	10,05	8,93	7,85			
	50	Q <sub>o</sub>	45928	38509	32087	26525	21687	17435	13632	10142			
		P <sub>e</sub>	17,12	15,99	14,74	13,42	12,07	10,72	9,44	8,24			

## Condensing units JDK with Maneurop compressors

Condensing units JDK,

**Expansion device:** valve.

**Temperature range:** HMBP -30 °C to 0 °C.

**Voltage:** 3 x 400 V / 50 Hz.

Condensing units are not equipped with filterdrier, sight glass and crankcase heater. It must be ordered separately.



## Condensing units

R404A, R407C, R134a, HMBP, 400 V

Code	Type	Cooling capacity [W] $t_o = -15^\circ\text{C}, t_{11} = +32^\circ\text{C}$	Connection [mm]	
			suction	discharge
47-32JME-M-18	JME-M-18	1 720	12	10
47-32JME-M-28	JME-M-28	2 880	12	10
47-32JME-M-40	JME-M-40	4 200	16	12
47-32JME-M-64	JME-M-64	7 260	22	12
47-32JME-M-80	JME-M-80	9 110	22	12
47-32JME-M-100	JME-M-100	10 680	22	12
47-32JME-M-125	JME-M-125	13 630	22	12

Type	Weight [kg]	Diameters [mm]			Mounting diameters [mm]		Condenser type / size
		width	depth	height	width	depth	
JME-M-18	48	600	600	455	560	380	18 – 1V
JME-M-28	51	600	600	455	560	380	28 – 1V
JME-M-40	68	800	600	442	760	400	40 – 2V
JME-M-64	99	1000	700	555	960	400	64 – 2V
JME-M-80	115	1000	700	555	960	400	80 – 2V
JME-M-100	145	1200	800	676	1160	500	100 – 2V
JME-M-125	154	1200	800	676	1160	500	125 – 2V

Type	$Q_o$ [W]	Evaporating temperature $t_e$ [ $^\circ\text{C}$ ] ambient temperature $t_{11} = +32^\circ\text{C}$						
	$P_e$ [kW]	0	-5,0	-10,0	-15,0	-20,0	-25,0	-30,0
JME-M-18	$Q_o$	3350	2750	2210	1720	1300	940	660
	$P_e$	1.43	1.31	1.19	1.08	0.96	0.85	0.73
JME-M-28	$Q_o$	4970	4240	540	2880	2280	1750	1290
	$P_e$	2.47	2.22	1.98	1.75	1.52	1.30	1.08
JME-M-40	$Q_o$	7190	6170	5160	4200	3300	2490	1780
	$P_e$	3.87	3.47	3.06	2.69	2.34	2.01	1.70
JME-M-64	$Q_o$	12850	10880	9000	7260	5680	4290	3100
	$P_e$	5.65	5.1	4.59	4.09	3.61	3.14	2.70
JME-M-80	$Q_o$	15490	13290	11150	9110	7200	5510	4030
	$P_e$	7.43	6.67	5.97	5.31	4.70	4.12	3.57
JME-M-100	$Q_o$	19100	16100	13270	10680	8370	6370	4690
	$P_e$	8.35	7.61	6.90	6.21	5.54	4.88	4.24
JME-M-125	$Q_o$	23200	19870	16640	13630	10880	8460	6380
	$P_e$	10.76	9.71	8.74	7.82	6.94	6.12	5.33



### Condensing units with compressors Copeland ZR

JME-ZR, R404A

Condensing units JDK.  
Expansion device: valve.  
Voltage 220 - 240 V / 50 Hz or 3 x 400 V / 50 Hz.

Condensing units are not equipped with filterdryer, sight glass and crankcase heater. It must be ordered separately.

Condensing units with compressors ZR18 and ZR28 might be in 1 or 3 phases version. It must be specified.



Code	Type	Connection [mm]	
		suction	discharge
47-32JME-ZR-18E	JME-ZR-18E	12	10
47-32JME-ZR-28	JME-ZR-28	16	10
47-32JME-ZR-40	JME-ZR-40	28	12
47-32JME-ZR-64	JME-ZR-64	28	12
47-32JME-ZR-80	JME-ZR-80	28	12
47-32JME-ZR-100	JME-ZR-100	28	12
47-32JME-ZR-125	JME-ZR-125	28	12
47-32JME-ZR-160	JME-ZR-160	35	16
47-32JME-ZR-185	JME-ZR-185	35	16

Type	Weight [kg]	Diameters [mm]			Mounting diameters [mm]		
		width	depth	height	width	depth	holes
JME-ZR-18E	58	600	600	480	560	380	4x9
JME-ZR-28	59	600	600	480	560	380	4x9
JME-ZR-40	69	800	600	520	760	400	4x9
JME-ZR-64	94	1000	700	560	960	400	4x9
JME-ZR-80	117	1000	700	560	960	400	4x9
JME-ZR-100	142	1200	800	680	1160	500	4x9
JME-ZR-125	157	1200	800	680	1160	500	4x9
JME-ZR-160	190	1800	1100	1170	1760	700	4x9
JME-ZR-185	205	1800	1100	1170	1760	700	4x9

Type	Compressors	Condenser	Air flow [m <sup>3</sup> ]	No. ventilators	Ventilator [mm]	Receiver [l]
JME-ZR-18E	ZR18 K5E	18 - IV	2 500	1	350	3,4
JME-ZR-28	ZR28 K3E	28 - IV	2 160	1	350	3,4
JME-ZR-40	ZR40 K3E	40 - 2V	2 500	2	300	6,7
JME-ZR-64	ZR61 KCE	64 - 2V	4 100	2	350	6,7
JME-ZR-80	ZR72 KCE	80 - 2V	4 800	2	400	6,7
JME-ZR-100	ZR94 KCE	100 - 2V	8 000	2	450	11,0
JME-ZR-125	ZR108 KCE	125 - 2V	7 250	2	450	11,0
JME-ZR-160	ZR160 KCE	200 - 2V	12 850	2	500	13,0
JME-ZR-185	ZR190 KCE	200 - 2V	24 000	2	600	13,0



## Accessories for condensing units Copeland JME-ZR

Code	Description
47-32JME-ZR-28-KRYT	outdoor cover of condensing unit JME - ZR28
47-32JME-ZR-40-KRYT	outdoor cover of condensing unit JME - ZR40

## Condensing units with compressors Copeland ZR

### JHE-ZR, R404A

Condensing units JDK.

**Expansion device:** valve. Voltage 3 x 400 V / 50 Hz.

Condensing units are not equipped with filterdryer, sight glass and crankcase heater. It must be ordered separately.

Code	Type	Connection [mm]	
		suction	discharge
47-32JHE-ZR-18E	JHE-ZR-18E	16	10
47-32JHE-ZR-28	JHE-ZR-28	16	10
47-32JHE-ZR-40	JHE-ZR-40	22	12
47-32JHE-ZR-64	JHE-ZR-64	28	12
47-32JHE-ZR-80	JHE-ZR-80	28	12
47-32JHE-ZR-100	JHE-ZR-100	28	12
47-32JHE-ZR-125	JHE-ZR-125	28	12
47-32JHE-ZR-160	JHE-ZR-160	35	16
47-32JHE-ZR-185	JHE-ZR-185	42	22

Type	Weight [kg]	Diameters [mm]			Mounting diameters [mm]		
		width	depth	height	width	depth	holes
JHE-ZR-18E	58	600	600	480	560	380	4x9
JHE-ZR-28	59	600	600	480	560	380	4x9
JHE-ZR-40	69	800	600	520	760	400	4x9
JHE-ZR-64	94	1 000	700	560	960	400	4x9
JHE-ZR-80	117	1 000	700	560	960	400	4x9
JHE-ZR-100	142	1 200	800	680	1 160	500	4x9
JHE-ZR-125	157	1 200	800	680	1 160	500	4x9
JHE-ZR-160	190	1 800	1 100	1 170	1 760	700	4x9
JHE-ZR-185	205	1 800	1 100	1 170	1 760	700	4x9

Type	Compressor	Condenser	Air flow [m³/h]	No. ventilators	Ventilator [mm]	Receiver [l]
JHE-ZR-18E	ZR18 K5E	28 - IV	2 160	1	350	3,4
JHE-ZR-28	ZR28 K3E	40 - 2V	2 500	2	300	6,7
JHE-ZR-40	ZR40 K3E	64 - 2V	4 100	2	350	6,7
JHE-ZR-64	ZR61 KCE	80 - 2V	4 800	2	400	6,7
JHE-ZR-80	ZR72 KCE	100 - 2V	8 000	2	450	11,0
JHE-ZR-100	ZR94 KCE	125 - 2V	7 250	2	450	11,0
JHE-ZR-125	ZR125 KCE	200 - 2V	14 000	2	600	13,0
JHE-ZR-160	ZR160 KCE	200 - 2V	24 000	2	600	13,0
JHE-ZR-185	ZR190 KCE	250 - 4V	30 000	4	550	24,5

Type	Cond. temp. [°C] t <sub>11</sub> / t <sub>e</sub>	Capacity / Input	Evaporating temperature [°C] / cooling capacity [W]								
			-30,0	-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	7,0
JME-ZR-18E	27	Q	1 350	1 740	2 180	2 680	3 230	3 840	4 500	4 780	5 220
	47-32		1 220	1 600	2 030	2 510	3 050	3 630	4 260	4 530	4 940
	38		1 010	1 400	1 820	2 280	2 790	3 340	3 940	4 190	4 580
	27	P	1,05	1,07	1,10	1,12	1,15	1,18	1,22	1,24	1,28
	47-32		1,20	1,22	1,23	1,25	1,27	1,30	1,35	1,37	1,41
	38		1,45	1,44	1,45	1,45	1,46	1,49	1,54	1,56	1,60
JHE-ZR-18E	27	Q	1 370	1 770	2 220	2 720	3 290	3 920	4 610	4 900	5 350
	47-32		1 240	1 640	2 070	2 570	3 120	3 720	4 380	4 660	5 090
	38		1 060	1 450	1 880	2 360	2 880	3 460	4 080	4 340	4 750
	27	P	1,02	1,04	1,07	1,10	1,13	1,16	1,20	1,22	1,25
	47-32		1,18	1,19	1,20	1,22	1,24	1,28	1,47-32	1,33	1,37
	38		1,40	1,39	1,39	1,40	1,42	1,44	1,48	1,50	1,54
JME-ZR-28	27	Q	2 150	2 710	3 360	4 080	4 900	5 790	6 760	7 170	7 800
	47-32		2 000	2 530	3 140	3 830	4 600	5 440	6 370	6 750	7 340
	38		1 780	2 280	2 850	3 490	4 200	4 990			
	27	P	1,73	1,81	1,89	1,96	2,04	2,13	2,23	2,28	2,36
	47-32		1,94	2,03	2,12	2,20	2,29	2,38	2,49	2,54	2,62
	38		2,24	2,33	2,43	2,52	2,62	2,73			
JHE-ZR-28	27	Q	2 260	2 860	3 550	4 330	5 220	6 200	7 280	7 740	8 440
	47-32		2 110	2 680	3 340	4 090	4 930	5 870	6 900	7 340	8 020
	38		1 920	2 450	3 070	3 780	4 570	5 450	6 430	6 840	7 480
	27	P	1,59	1,64	1,70	1,75	1,80	1,85	1,92	1,95	2,00
	47-32		1,78	1,85	1,90	1,96	2,01	2,08	2,14	2,18	2,23
	38		2,05	2,12	2,19	2,25	2,31	2,38	2,45	2,49	2,54
JME-ZR-40	27	Q	3 070	3 860	4 760	5 770	6 900	8 150	9 520	10 090	10 980
	47-32		2 870	3 620	4 470	5 430	6 490	7 670	8 970	9 510	10 350
	38		2 620	3 320	4 100	4 990	5 980	7 070			
	27	P	2,37	2,48	2,59	2,70	2,81	2,94	3,08	3,15	3,26
	47-32		2,66	2,78	2,90	3,02	3,15	3,29	3,44	3,51	3,62
	38		3,06	3,19	3,33	3,46	3,60	3,76			
JHE-ZR-40	27	Q	3 270	4 150	5 150	6 300	7 600	9 060	10 690	11 380	12 480
	47-32		3 080	3 910	4 870	5 960	7 210	8 600	10 160	10 830	11 880
	38		2 960	3 770	4 700	5 760	6 970	8 320	9 840	10 490	11 510
	27	P	2,11	2,16	2,21	2,26	2,30	2,35	2,41	2,44	2,48
	47-32		2,36	2,42	2,48	2,53	2,58	2,64	2,70	2,73	2,77
	38		2,52	2,59	2,65	2,71	2,76	2,82	2,88	2,91	2,96
JME-ZR-64	27	Q	4 440	5 580	7 010	8 710	10 620	12 700	14 920	15 840	17 220
	47-32		4 130	5 180	6 520	8 120	9 940	11 930	14 070	14 950	16 280
	38		3 950	4 940	6 220	7 770	9 540	11 480	13 570	14 430	15 730
	27	P	2,88	3,07	3,25	3,42	3,60	3,83	4,10	4,23	4,46
	47-32		3,25	3,45	3,64	3,81	4,00	4,23	4,52	4,66	4,89
	38		3,50	3,70	3,89	4,07	4,26	4,50	4,79	4,93	5,18

Type	Cond. temp. [°C] t <sub>1</sub> / t <sub>e</sub>	Capacity / Input	Evaporating temperature [°C] / cooling capacity [W]								
			-30,0	-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	7,0
JHE-ZR-64	27	Q	4 480	5 640	7 110	8 840	10 800	12 940	15 230	16 170	17 610
	47-32		4 180	5 250	6 620	8 260	10 130	12 180	14 380	15 290	16 670
	38		4 000	5 010	6 320	7 910	9 720	11 720	13 870	14 760	16 110
	27	P	2,83	3,02	3,18	3,34	3,50	3,71	3,96	4,08	4,30
	47-32		3,19	3,38	3,55	3,71	3,88	4,10	4,36	4,49	4,71
	38		3,44	3,63	3,80	3,96	4,14	4,35	4,62	4,75	4,98
JME-ZR-80	27	Q	5 720	7 290	9 020	10 930	13 040	15 340	17 840	18 890	20 510
	47-32		5 270	6 790	8 450	10 270	12 280	14 460	16 840	17 830	19 360
	38		4 690	6 140	7 710	9 430	11 320	13 360	15 590	16 520	
	27	P	4,00	4,12	4,26	4,41	4,59	4,79	5,03	5,14	5,47-32
	47-32		4,46	4,59	4,74	4,90	5,09	5,31	5,55	5,67	5,86
	38		5,08	5,22	5,39	5,56	5,76	5,99	6,25	6,38	
JHE-ZR-80	27	Q	5 890	7 520	9 320	11 340	13 580	16 050	18 770	19 920	21 710
	47-32		5 460	7 040	8 780	10 720	12 860	15 220	17 820	18 920	20 620
	38		4 910	6 420	8 080	9 920	11 950	14 170	16 610	17 640	19 250
	27	P	3,83	3,92	4,01	4,12	4,25	4,40	4,57	4,65	4,79
	47-32		4,26	4,35	4,45	4,57	4,70	4,86	5,04	5,13	5,27
	38		4,84	4,94	5,05	5,18	5,47-32	5,48	5,68	5,77	5,92
JME-ZR-100	27	Q	6 000	8 300	10 620	13 080	15 740	18 670	21 950	23 360	25 590
	47-32		5 560	7 820	10 090	12 450	15 000	17 800	20 920	22 260	24 380
	38		5 080	7 280	9 440	11 680	14 070	16 670	19 570	20 820	22 770
	27	P	4,71	5,02	5,28	5,50	5,71	5,93	6,17	6,29	6,49
	47-32		5,22	5,56	5,84	6,07	6,29	6,53	6,78	6,91	7,11
	38		5,91	6,27	6,58	6,84	7,08	7,33	7,61	7,74	7,97
JHE-ZR-100	27	Q	6 090	8 410	10 760	13 260	15 970	18 970	22 350	23 800	26 110
	47-32		5 630	7 920	10 220	12 630	15 230	18 100	21 320	22 700	24 900
	38		5 150	7 370	9 580	11 860	14 320	17 010	20 010	21 310	23 350
	27	P	4,63	4,92	5,16	5,36	5,54	5,73	5,95	6,05	6,23
	47-32		5,13	5,44	5,70	5,91	6,11	6,31	6,54	6,65	6,84
	38		5,80	6,14	6,42	6,66	6,87	7,10	7,34	7,46	7,66
JME-ZR-125	27	Q	7 970	10 420	13 080	16 000	19 200	22 700	26 540	28 150	30 660
	47-32		7 290	9 700	12 280	15 080	18 140	21 460	25 100	26 620	28 980
	38		6 420	8 770	11 260	13 930	16 810	19 920	23 310	24 730	
	27	P	5,79	6,11	6,41	6,69	6,98	7,29	7,62	7,78	8,03
	47-32		6,35	6,71	7,06	7,39	7,71	8,06	8,42	8,59	8,85
	38		7,05	7,49	7,91	8,30	8,68	9,07	9,47	9,65	
JHE-ZR-125	27	Q	8 330	10 880	13 680	16 780	20 240	24 090	28 360	30 190	33 050
	47-32		7 670	10 180	12 910	15 910	19 230	22 900	26 970	28 710	31 430
	38		6 830	9 300	11 930	14 800	17 950	21 410	25 230	26 860	29 400
	27	P	5,50	5,73	5,93	6,11	6,29	6,48	6,69	6,79	6,95
	47-32		6,04	6,31	6,55	6,76	6,96	7,17	7,40	7,50	7,67
	38		6,71	7,05	7,35	7,61	7,85	8,09	8,34	8,46	8,64

Type	Cond. temp. [°C] t <sub>11</sub> / t <sub>e</sub>	Capacity / Input	Evaporating temperature [°C] / cooling capacity [W]								
			-30,0	-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	7,0
JME-ZR-160	27	Q	10 330	13 640	17 210	21 060	25 310	29 980	35 040	37 190	40 520
	47-32		9 280	12 590	16 090	19 830	23 970	28 380	33 200	35 240	38 400
	38		7 710	11 020	14 470	18 100	22 020	26 230	30 810	32 730	35 690
	27	P	7,30	7,70	8,09	8,48	8,85	9,22	9,64	9,82	10,2
	47-32		7,93	8,42	8,87	9,33	9,75	10,15	10,6	10,79	11,1
	38		8,73	9,34	9,90	10,45	10,95	11,43	11,93	12,13	12,47
JHE-ZR-160	27	Q	10 700	14 100	17 790	21 840	26 350	31 380	36 920	39 300	43 010
	47-32		9 740	13 150	16 800	20 740	25 090	29 900	35 180	37 430	40 960
	38		8 290	11 740	15 360	19 200	23 380	27 950	32 930	35 060	38 370
	27	P	7,05	7,36	7,64	7,91	8,17	8,42	8,72	8,85	9,07
	47-32		7,67	8,08	8,38	8,70	8,99	9,26	9,57	9,70	9,92
	38		8,45	8,93	9,35	9,75	10,09	10,41	10,75	10,89	11,12
JME-ZR-185	27	Q	13 860	17 470	21 580	26 210	31 460	37 350	43 810	46 550	50 810
	47-32		12 380	16 090	20 220	24 800	29 910	35 580	41 730	44 340	48 360
	38		10 640	14 440	18 570	23 040	27 960	33 320	39 070	41 490	45 200
	27	P	8,71	9,09	9,46	9,83	10,20	10,53	11,03	11,23	11,56
	47-32		9,50	9,97	10,42	10,87	11,29	11,71	12,20	12,41	12,76
	38		10,5	11,11	11,68	12,24	12,75	13,25	13,80	14,03	14,41
JHE-ZR-185	27	Q	14 520	18 180	22 380	27 160	32 640	38 850	45 780	48 760	53 440
	47-32		13 000	16 780	21 010	25 760	31 120	37 130	43 770	46 620	51 080
	38		11 250	15 140	19 390	24 060	29 250	34 990	41 270	43 940	48 110
	27	P	8,39	8,67	8,92	9,18	9,42	9,67	9,99	10,13	10,38
	47-32		9,16	9,53	9,85	10,15	10,43	10,71	11,05	11,19	11,44
	38		10,14	10,62	11,04	11,43	11,78	12,11	12,48	12,63	12,89

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

### Condensing units JDK JLE-ZF with compressors Copeland ZF

R404

**Expansion device:** valve. Voltage: 3 x 400 V / 50 Hz.

**Gas return temperature:** 20°C.

Condensing units are not equipped with filterdrier, sight glass and crankcase heater. It must be ordered separately.

Code	Type	Connection [mm]	
		suction	discharge
47-32JLE-ZF-09	JLE-ZF-09	16	10
47-32JLE-ZF-11	JLE-ZF-11	16	10
47-32JLE-ZF-13	JLE-ZF-13	16	10
47-32JLE-ZF-15	JLE-ZF-15	22	12
47-32JLE-ZF-18	JLE-ZF-18	22	12
47-32JLE-ZF-24	JLE-ZF-24	28	12
47-32JLE-ZF-33	JLE-ZF-33	28	16
47-32JLE-ZF-40	JLE-ZF-40	35	16
47-32JLE-ZF-48	JLE-ZF-48	42	16

Type	Weight [kg]	Diameters [mm]			Mounting diameters [mm]		
		width	depth	height	width	depth	holes
JLE-ZF-09	60	600	600	60	560	380	4 x 9
JLE-ZF-11	63	600	600	520	560	380	4 x 9
JLE-ZF-13	72	600	600	560	560	380	4 x 9
JLE-ZF-15	94	800	600	560	760	400	4 x 9
JLE-ZF-18	99	1 000	700	560	960	400	4 x 9
JLE-ZF-24	110	1 000	700	640	960	400	4 x 9
JLE-ZF-33	124	1 200	800	680	1 160	500	4 x 9
JLE-ZF-40	148	1 200	800	680	1 160	500	4 x 9
JLE-ZF-48	157	1 200	800	690	1 160	500	4 x 9

Type	Condenser	Air flow [m³/h]	No. ventilators	Ventilator [mm]	Receiver [l]
JLE-ZF-09	18 - IV	2 400	1	350	3,5
JLE-ZF-11	28 - IV	2 160	1	350	3,5
JLE-ZF-13	28 - IV	2 160	1	350	3,5
JLE-ZF-15	40 - 2V	2 600	2	300	6,7
JLE-ZF-18	64 - 2V	3 600	2	350	11,0
JLE-ZF-24	80 - 2V	5 400	2	400	11,0
JLE-ZF-33	100 - 2V	8 000	2	450	11,0
JLE-ZF-40	125 - 2V	7 250	2	450	11,0
JLE-ZF-48	125 - 2V	7 250	2	450	11,0

Type	Cond. temp. [°C] t <sub>11</sub> / t <sub>e</sub>	Capacity / Input	Evaporating temperature [°C] / cooling capacity [W]						
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0
JLE-ZF-09	27	Q	1 540	1 924	2 351	2 821	3 330	3 864	4 463
	32		1 447	1 808	2 204	2 637	3 101	3 570	4 112
	38		1 329	1 662	2 021	2 409	2 815	3 208	3 680
	27	P	1,79	1,83	1,89	1,98	2,1	2,29	2,45
	32		1,91	1,94	2,0	2,09	2,21	2,42	2,58
	38		2,06	2,08	2,13	2,22	2,34	2,57	2,76
JLE-ZF-11	27	Q	1 928	2 404	2 924	3 482	4 095	4 708	5 415
	32		1 815	2 266	2 751	3 263	3 822	4 354	4 991
	38		1 678	2 099	2 541	2 996	3 488	3 921	4 468
	27	P	2,15	2,21	2,3	2,42	2,57	2,82	3,02
	32		2,29	2,34	2,42	2,54	2,69	2,96	3,16
	38		2,45	2,49	2,56	2,69	2,84	3,13	3,34
JLE-ZF-13	27	Q	2 181	2 697	3 287	3 919	4 615	5 272	6 037
	32		2 037	2 517	3 068	3 648	4 285	4 856	5 545
	38		1 862	2 297	2 800	3 316	3 879	4 342	
	27	P	2,35	2,46	2,6	2,77	2,96	3,29	3,53
	32		2,5	2,62	2,75	2,93	3,13	3,47	3,73
	38		2,69	2,81	2,94	3,12	3,32	3,71	

Type	Cond. temp. [°C] t <sub>11</sub> / t <sub>e</sub>	Capacity / Input	Evaporating temperature [°C] / cooling capacity [W]							
			-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	
JLE-ZF-15	27	Q	2 756	3 441	4 196	5 022	5 904	6 753	7 739	
			32	2 577	3 222	3 933	4 693	5 497	6 226	7 108
			38	2 361	2 960	3 615	4 296	5 004	5 586	6 340
	32	P	2,67	2,87	3,08	3,32	3,59	3,99	4,32	
			32	2,85	3,06	3,26	3,52	3,79	4,23	4,56
			38	3,07	3,28	3,49	3,76	4,04	4,52	4,86
JLE-ZF-18	27	Q	3 367	4 218	5 175	6 245	7 428	8 702	10 153	
			32	3 157	3 959	4 852	5 838	6 921	8 060	9 382
			38	2 922	3 669	4 488	5 378	6 344	7 324	8 493
	32	P	3,24	3,39	3,56	3,77	4,0	4,33	4,62	
			32	3,45	3,6	3,77	3,99	4,23	4,59	4,89
			38	3,68	3,83	4,01	4,23	4,48	4,89	5,19
JLE-ZF-24	27	Q	4 156	5 276	6 511	7 858	9 353	10 900	12 683	
			32	3 904	4 975	6 135	7 381	8 755	10 129	11 742
			38	3 601	4 609	5 682	6 807	8 037	9 204	10 615
	32	P	4,05	4,34	4,64	4,95	5,29	5,71	6,11	
			32	4,31	4,61	4,92	5,25	5,6	6,07	6,48
			38	4,62	4,94	5,26	5,61	5,98	6,49	6,92
JLE-ZF-33	27	Q	5 354	7 188	9 082	10 997	13 070	14 956	17 289	
			32	4 950	6 795	8 695	10 511	12 451	13 996	16 109
			38	4 468	6 323	8 230	9 924	11 702	12 834	14 678
	32	P	5,59	6,07	6,58	7,09	7,64	8,35	8,97	
			32	5,97	6,48	7,01	7,55	8,12	8,89	9,53
			38	6,42	6,97	7,52	8,1	8,71	9,55	10,2
JLE-ZF-40	27	Q	6 715	8 432	10 261	12 172	14 178	16 042	18 169	
			32	6 266	7 883	9 585	11 323	13 126	14 707	16 578
			38	5 726	7 224	8 772	10 305	11 866		
	32	P	7,07	7,67	8,3	9,03	9,79	10,8	11,68	
			32	7,53	8,15	8,79	9,55	10,33	11,41	12,3
			38	8,08	8,72	9,37	10,14	10,98		
JLE-ZF-48	27	Q	7 388	9 403	11 477	13 489	15 543	17 119	19 233	
			32	6 800	8 719	10 678	12 504	14 346	15 576	
			38	6 094	7 897	9 720	11 323	12 916		
	32	P	8,92	9,75	10,56	11,45	12,29	13,58	14,55	
			32	9,47	10,33	11,16	12,08	12,92	14,29	
			38	10,13	11,03	11,88	12,83	13,67		

t<sub>o</sub>: evaporating temperature [°C]  
t<sub>k</sub>: condensing temperature [°C]

Q<sub>o</sub>: cooling capacity [W]  
P: power input [W]

## Condensing units JDK with compressors Bitzer

R404A, 400 V

Code	Type	Cooling capacity [W] $t_e = -15^\circ\text{C}$ , $t_{i1} = +32^\circ\text{C}$	Connection [mm]	
			suction	discharge
47-32JLE-BP-100	JLE-BP-100	2464	16	10
47-32JLE-BP-150	JLE-BP-150	2794	16	10
47-32JLE-BP-200	JLE-BP-200	3879	22	10
47-32JLE-BP-300	JLE-BP-300	5667	22	12
47-32JLE-BP-400	JLE-BP-400	8669	28	12
47-32JLE-BP-500	JLE-BP-500	10070	28	12
47-32JLE-BP-600	JLE-BP-600	11746	28	12
47-32JLE-BP-620	JLE-BP-620	12836	28	12

Type	Weight [kg]	Diameters [mm]			Mounting diameters [mm]		Condenser
		width	depth	height	width	depth	
JLE-BP-100	78	600	600	455	560	380	18-1V
JLE-BP-150	79	600	600	455	560	380	18-1V
JLE-BP-200	110	600	600	455	560	380	28-1V
JLE-BP-300	115	800	600	442	760	400	40-2V
JLE-BP-400	121	1000	700	555	960	400	64-2V
JLE-BP-500	155	1000	700	555	960	400	64-2V
JLE-BP-600	160	1000	700	555	960	400	80-2V
JLE-BP-620	174	1200	800	676	1160	500	100-2V

Type	Capacity [W]	Evaporating temperature $t_e$ [ $^\circ\text{C}$ ], ambient temperature $t_{i1} = +32^\circ\text{C}$								
	Input [kW]	-45,0	-40,0	-35,0	-30,0	-25,0	-20,0	-15,0	-10,0	-5,0
JLE-BP-100	$Q_o$	398	667	948	1268	1628	2028	2464	2936	3436
	$P_e$	0,46	0,63	0,8	0,98	1,15	1,33	1,51	1,69	1,89
JLE-BP-150	$Q_o$	526	801	1117	1475	1876	2317	2794	3302	3835
	$P_e$	0,57	0,77	0,96	1,16	1,35	1,56	1,75	1,95	2,16
JLE-BP-200	$Q_o$	725	1202	1641	2132	2673	3258	3879	4523	5180
	$P_e$	0,81	1,08	1,35	1,64	1,94	2,25	2,59	2,94	3,31
JLE-BP-300	$Q_o$	1,082	1754	2409	3141	3939	4787	5667	6551	
	$P_e$	1,09	1,48	1,89	2,33	2,8	3,29	3,82	4,41	
JLE-BP-400	$Q_o$	1697	2687	3643	4724	5932	7245	8669	10183	11765
	$P_e$	1,69	2,17	2,67	3,2	3,74	4,3	4,88	5,48	6,1
JLE-BP-500	$Q_o$	1926	3151	4281	5547	6942	8456	10070	11761	13499
	$P_e$	2,01	2,68	3,39	4,1	4,83	5,59	6,36	7,16	7,98
JLE-BP-600	$Q_o$	2362	3886	5208	6673	8267	9968	11746	13569	
	$P_e$	2,5	3,18	3,9	4,65	5,44	6,28	7,17	8,11	
JLE-BP-620	$Q_o$	2509	4015	5428	7023	8798	10741	12836	15060	17379
	$P_e$	2,51	3,18	3,89	4,62	5,37	6,15	6,96	7,8	8,67

**Compressors  
Bitzer**

R134a, R404A, R407A, R407F, 400 V

Code	Type	Displacement [m <sup>3</sup> /h]	No. cylinders	Connection	
				suction	discharge
47-322HES-1Y	2HES-1Y	6,51	2	5/8" (16 mm)	1/2" (12 mm)
47-322GES-2Y	2GES-2Y	7,58	2	5/8" (16 mm)	1/2" (12 mm)
47-32EES-2Y	EES-2Y	11,4	2	7/8" (22 mm)	5/8" (16 mm)
47-32CES-3Y	CES-3Y	16,2	2	7/8" (22 mm)	5/8" (16 mm)
47-324EES-4Y	4EES-4Y	22,7	4	1 1/8" (28 mm)	5/8" (16 mm)
47-324DES-5Y	4DES-5Y	26,8	4	1 1/8" (28 mm)	7/8" (22 mm)
47-324CES-6Y	4CES-6Y	32,5	4	1 1/8" (28 mm)	7/8" (22 mm)

Code	Type	Oil charge [dm <sup>3</sup> ]	Weight [kg]	Input [kW]
47-322HES-1Y	2HES-1Y	1,0	44	2,0
47-322GES-2Y	2GES-2Y	1,0	45	2,7
47-32EES-2Y	EES-2Y	1,5	68	3,3
47-32CES-3Y	CES-3Y	1,5	70	5,0
47-324EES-4Y	4EES-4Y	2,0	84	6,9
47-324DES-5Y	4DES-5Y	2,0	86	8,1
47-324CES-6Y	4CES-6Y	2,0	91	9,7

Code	Description
47-32SE-B1	motor protector Bitzer SE-B1

Type	Evaporating temperature [°C] / cooling capacity [W] - R134A														
	t <sub>o</sub>	10		5		0		-5		-10		-15		-20	
	t <sub>k</sub>	Q <sub>o</sub>	P <sub>e</sub>	Q <sub>o</sub>	P <sub>e</sub>	Q <sub>o</sub>	P <sub>e</sub>	Q <sub>o</sub>	P <sub>e</sub>	Q <sub>o</sub>	P <sub>e</sub>	Q <sub>o</sub>	P <sub>e</sub>	Q <sub>o</sub>	P <sub>e</sub>
2HES-1Y	40	4650	1,02	3820	0,99	3100	0,94	2490	0,89	1960	0,83	1520	0,76	1140	0,68
	50	4080	1,18	3330	1,13	2690	1,07	2150	0,99	1680	0,91	1280	0,91	940	0,70
	60	3510	1,35	2850	1,27	2290	1,18	1810	1,08	1390	0,97	1040	0,84	740	0,71
2GES-2Y	40	5400	1,19	4450	1,15	3630	1,11	2930	1,05	2320	0,98	1810	0,90	1370	0,81
	50	4760	1,38	3910	1,32	3180	1,24	2550	1,16	2010	1,06	1540	0,95	1150	0,84
	60	4120	1,56	3370	1,47	2730	1,36	2170	1,25	1690	1,12	1280	0,99	935	0,84
2EES-2Y	40	8600	1,78	7040	1,70	5700	1,60	4560	1,48	3580	1,34	2760	1,20	2070	1,04
	50	7440	2,09	6070	1,95	4900	1,79	3890	1,62	3040	1,44	2320	1,25	1710	1,07
	60	6290	2,34	5110	2,14	4100	1,93	3230	1,71	2500	1,48	1880	1,27	1350	1,06
2CES-3Y	40	12530	2,60	10290	2,50	8370	2,36	6720	2,19	5320	1,99	4140	1,79	3150	1,58
	50	10900	3,08	8940	2,88	7250	2,66	5810	2,42	4580	2,17	3540	1,91	2670	1,66
	60	9290	3,49	7600	3,20	6150	2,90	4900	2,59	3840	2,28	2940	1,98	2180	1,69
4EES-4Y	40	17030	3,52	1400	3,36	11410	3,16	9190	2,93	7320	2,67	5730	2,40	4410	2,12
	50	14760	4,18	12110	3,90	9830	3,59	7890	3,26	6240	2,91	4850	2,56	3690	2,22
	60	12500	4,75	10230	4,35	8280	3,93	6610	3,51	5190	3,08	3980	2,67	2980	2,27
4DES-5Y	40	20500	4,16	16690	3,96	13470	3,71	10750	3,42	8460	3,11	6550	2,77	4980	2,43
	50	17650	4,88	14360	4,54	11550	4,17	9180	3,77	7180	3,35	5510	2,93	4130	2,51
	60	14830	5,47	12030	5,00	9630	4,50	7600	4,00	5890	3,49	4450	2,99	3270	2,51
4CES-6Y	40	25050	5,05	20450	4,82	16560	4,54	13260	4,20	10490	3,83	8170	3,44	6250	3,04
	50	21700	5,94	17690	5,55	14290	5,12	11400	4,65	8970	4,16	6950	3,67	5270	3,19
	60	18320	6,69	14920	6,14	12010	5,57	9540	4,98	7450	4,38	5710	3,80	4260	3,24







## Heating cables for compressors

Compressors crankcase heaters.  
Steel clamp with screw fastening head.  
Multi-wire metal braiding external protection.  
**Voltage:** 230 V / 50 HZ.

Code	Type	Power [W]	ø min / max diameter [mm]	Circuit length min / max [mm]
47-327900-10	FCH 10	35	120 / 175	377 / 550
47-327900-20	FCH 20	40	130 / 185	408 / 581
47-327900-30	FCH 30	45	150 / 290	471 / 911
47-327900-40	FCH 40	55	170 / 295	534 / 927
47-327900-50	FCH 50	65	210 / 330	660 / 1037
47-327900-51	FCH 51	70	150 / 205	471 / 644
47-327900-52	FCH52	70	255 / 300	801 / 942
47-327900-60	FCH 60	75	230 / 380	723 / 1194

## Crankcase heating elements

**Voltage:** 220 - 240 V / 50 HZ.

Code	Compressor	Power [W]	Length [mm]	ø [mm]	Cable length [mm]
47-327901-M-035	Maneurop	35	32,5	19,3	700
47-327901-B-060	Bitzer	60	95	11	1000
47-327901-B-120	Bitzer	120	113	11	1000
47-327901-B-140	Bitzer	140	162	11	1000
47-327901-D-100	Dorin	100	76	12,7	1000
47-327901-D-200	Dorin	200	76	12,7	1000
47-327901-F-050	Frascold	50	50	9,6	1100
47-327901-F-070	Frascold	70	70	9,6	1100
47-327901-F-150	Frascold	150	150	9,6	1100

## Heating elements for drain bowls

Code	Description
47-327902-01	heating element 110 W, 240 V, d=12 mm, L=120 mm
47-327902-02	heating element 230 W, 240 V, d=12 mm, L=180 mm
47-327902-03	heating element 330 W, 240 V, d=12 mm, L=240 mm
47-327902-04	heating element 200W, 240 V, d = 12 mm, L = 180 mm
47-327902-05	heating element 350 W, 240 V, d = 12 mm, L = 245 mm

**Rotalock valve**  
**Solder**

1 port

**Connection:** access port (gauge) 1/4" SAE

Code	Connection Rotalock	Outlet (ODS)
47-323007-43	1"	6 mm
47-323007-44	1"	10 mm
47-323007-45	1"	16 mm
47-323007-46	1.1/4"	16 mm
47-323007-47	1.1/4"	22 mm
47-323007-48	1.3/4"	22 mm

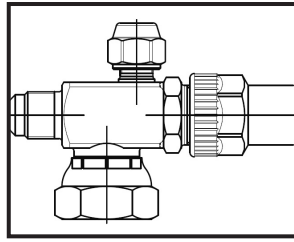
**Rotalock valve**  
**Solder**

2 port

**Connection:** access port (gauge) 1/4" SAE  
 pressure switch 1/4" SAE

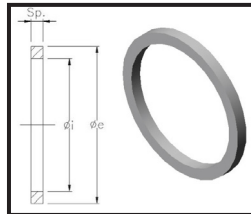
Code	Connection Rotalock	Outlet (ODS)
47-323007-00	3/4"	10 mm
47-323007-42	1"	6 mm
47-323007-15	1"	10 mm
47-323007-17	1"	3/8"
47-323007-14	1"	12 mm
47-323007-16	1"	16 mm
47-323007-18	1"	5/8"
47-323007-13	1.1/4"	12 mm
47-323007-09	1.1/4"	16 mm
47-323007-29	1.1/4"	18 mm
47-323007-30	1.1/4"	22 mm
47-323007-31	1.1/4"	28 mm
47-323007-04	1.1/4"	18 mm
47-323007-34	1.3/4"	22 mm
47-323007-02	1.3/4"	28 mm
47-323007-35	1.3/4"	35 mm
47-323007-36	1.3/4"	42 mm
47-323007-40	2.1/4"	35 mm
47-323007-39	2.1/4"	42 mm
47-323007-41	2.1/4"	54 mm

## Rotalock valve Flare



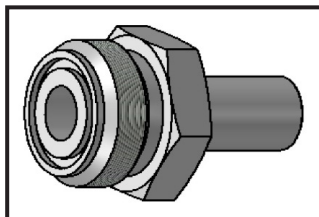
Code	Connection Rotalock	Outlet (SAE)	Orig. code
47-323007-51	flange	1/2"	
47-323007-50	flange	3/8"	
47-323007-60	1"	3/8"	6320/3, Castel
47-323007-61	1"	1/2"	6320/4, Castel
47-323007-62	1"	5/8"	6320/5, Castel

## Gaskets for Rotalock valves



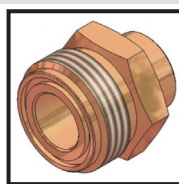
Code	Description
47-323007-25	gasket for Rotalock connection 3/4"
47-323007-20	gasket for Rotalock connection 1"
47-323007-21	gasket for Rotalock connection 1.1/4"
47-323007-23	gasket for Rotalock connection 1.3/4"
47-323007-24	gasket for Rotalock connection 2.1/4"

## Welding connection with tightening nut for Rotalock



Code	Diameter of tube [mm]	Rotalock connection	Diameters [mm]	
			total length	length of tube
47-323008-100-12	12	1"	47	25
47-323008-114-18	18	1.1/4"	52	25
47-323008-114-22	22	1.1/4"	52	25
47-323008-134-28	28	1.3/4"	53	25
47-323008-134-35	35	1.3/4"	53	25

### Welding connection with tightening nut for Rotalock



Code	Diameter of tube ODS [mm]	Rotalock connection	Diameters [mm]	
			total length	length of tube
47-323008-F-100-12	12	1"	26	12
47-323008-F-114-18	19	1.1/4"	33,5	16
47-323008-F-114-22	22	1.1/4"	33,5	14
47-323008-F-114-28	28	1.1/4"	33,5	14
47-323008-F-134-28	28	1.3/4"	33,5	20
47-323008-F-134-35	35	1.3/4"	33,5	20
47-323008-F-214-42	42	2.1/4"	50	20
47-323008-F-214-54	54	2.1/4"	50	20

### Rotalock adapters

Code	Rotalock connection	ø tube ODS [mm]	Diameters [mm]		
			total length	tube length	ø tube
47-323009-100-10	1"	10	42,5	10	12
47-323009-100-12	1"	12	42,5	10	14
47-323009-100-16	1"	16	42,5	10	16
47-323009-114-12	1.1/4"	12	47	15	14
47-323009-114-16	1.1/4"	16	47	15	20
47-323009-114-18	1.1/4"	18	47	15	22
47-323009-114-22	1.1/4"	22	52	20	26
47-323009-134-22	1.3/4"	22	67,5	20	26
47-323009-134-28	1.3/4"	28	67,5	25	32
47-323009-134-35	1.3/4"	35	67,5	25	39
47-323009-134-42	1.3/4"	42	72,5	30	47
47-323009-214-42	2.1/4"	42	76	25	47

### Sets of adapters

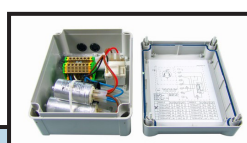
Code	Description
47-32ZRA-11-19	welding connection with tightening nut for Rotalock for Copeland: ZH11 to ZR19
47-32ZRA-18-40	welding connection with tightening nut for Rotalock for Copeland: ZR18 to ZR40
47-32ZRA-48-72	welding connection with tightening nut for Rotalock for Copeland: ZR48 to ZR72
47-32ZRA-56-92	welding connection with tightening nut for Rotalock for Copeland: ZH56 to ZH92
47-32ZRA-81	welding connection with tightening nut for Rotalock for Copeland: ZR81

## Accessories for compressors

Code	Description
47-32ZR-ZB-ZP-ZH-KON	starting capacitor for compressors Copeland 50 uF, 370V, 8540600
47-32MT-MTZ-KRYT-1	terminal box cover MT (MTZ) 18 - 64
47-32MT-MTZ-KRYT-2	terminal box cover Maneurop MT (MTZ) 80 - 160
47-32SE-B1	motor protector module Bitzer SE-B1
47-32831-12	universal thermic protector 1/2 Hp, 120°C, 13 A
47-32831-13	universal thermic protector 1/3 Hp, 120°C, 11 A
47-32831-14	universal thermic protector 1/4 Hp, 115°C, 9 A
47-32831-15	universal thermic protector 1/5 Hp, 115°C, 7,2 A
47-32831-16	universal thermic protector 1/4 Hp, 110°C, 6A
47-32831-18	universal thermic protector 1/8 Hp, 110°C, 5,6 A
47-32THPOOC0001	motor protector module Carel THPOOC0000, 230 Vac
47-32INT369R	motor protector module BRISTOL, 115-230 Vac, 22A276S23, 41AA1606E, 31AA1606E
47-32INT69SC2	motor protector module COPELAND, INT 69S C2 (120-230 Vac),8558514
47-32INT69SCY2	motor protector module COPELAND, INT 69SCY2 (120-230 Vac),8558547
47-32INT69	motor protector module DORIN INT 69 (52 A 120 S70)
47-32INT69TR	motor protector module DORIN INT 69, (2CC4010)
47-32INT69TM	motor protector module KRIWAN, INT 69TM, 200-260V (K3133638)
47-32MTZ-RELE	rele Maneurop MT/MTZ 18, 22, 28, LZ, LTZ 22,28 - CSR28/5
47-32ESC-255	soft starter ALCO, ESC-255, 230V do 25 [A], 805175
47-32ESC-325	soft starter ALCO, ESC-325, 230V, do 47-32[A], 805176
47-32037N0076	soft starter DANFOSS, MCI 15C, 380 - 480V, 50 Hz, 15A
47-32037N0096	soft starter DANFOSS, MCI 15CH, 380-415 V, 50Hz, 15A
47-32037N0077	soft starter DANFOSS, MCI 25C, 380 - 4800V, 50 Hz, 25A
47-32037N0097	soft starter DANFOSS, MCI 25CH, 380-415 V, 50Hz, 25A
47-32037N0088	soft starter DANFOSS, MCI 50, 400 V, 50Hz, 50-3 I-O
47-32037N0045	soft starter DANFOSS, TCI 15, 230-480 V, 50 Hz, 15A
47-32037N0086	soft starter DANFOSS, TCI 25C, 220-230V, 50Hz, 25A
47-324807-00	discharge thermostat for compressors COPELAND ZF, ZS, ZH, 2981196
47-324807-01	discharge thermostat for compressors COPELAND ZH, 8854416
47-324807-02	discharge thermostat for compressors COPELAND ZR, 8557419
47-32ZF-DTC-ZF06-18	DTC valve for Copeland compressors ZF 06 - 18
47-32ZF-DTC-ZF09-48	DTC valve for Copeland compressors ZF 06 - 18, 155149, ex:8530541
47-32ZBD-3007	solenoid valve Copeland ZBD, 2981481, streight
47-32ZBD-RV	solenoid valve Copeland ZBD/ZRD, 8403045, angle

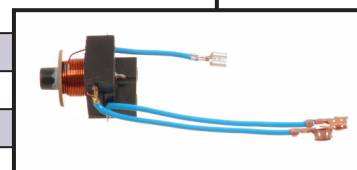
## Starters

Code	Description
47-321300-02	starter 103N0002 DANFOSS, 230V, 25 Ohm
47-321300-11	starter 103N0011 DANFOSS, 230V, 25 Ohm
47-321300-15	starter 103N0015 DANFOSS, 230V, 25 Ohm
47-321300-16	starter 103N0016 DANFOSS, 230V, 25 Ohm
47-321300-18	starter 103N0018 DANFOSS, 230V, 25 Ohm
47-321300-21	starter 103N0021 DANFOSS, 230V, 25 Ohm
47-321300-50	starter 103N0050 DANFOSS, 230V, 25 Ohm
47-321300-117U6021	starter 117U6021 DANFOSS, HST/LST



Code	Description
47-32MTZ-RELE	starter Maneurop MT/MTZ 18, 22, 28, LZ, LTZ 22,28 - CSR28/5

Code	Description
47-321301-04A	starter CALEX MR, 4 A - new type
47-321301-02,4	starter CALEX, MR 2,4 - old type
47-321301-02,4A	starter CALEX, MR 2,4 A - new type
47-321301-04	starter CALEX, MR 4 - old type
47-321301-06,5	starter CALEX, SR 6,5



Code	Description
47-321302-30	starter NECCHI, ES 3
47-321302-40	starter NECCHI, ES 4 - 3,5
47-321302-50	starter NECCHI, ES 5
47-321302-12	starter NECCHI, universal 1/12 - 1/2 HP



Code	Description
47-321303-02	universal starter, ICG 220, UR222
47-321303-03	universal starter, SPP 220
47-321303-04	universal starter, T.S. 6A/220-240V/, 1/12 - 1/2 HP





## Complaint Protocol

For all types of compressors.

The form must be enclosed to the claim goods.

### Identification data:

Company name:.	Identification:
Customer number:	VAT:
Address:	
Phone/Fax:	
Mobile:	
E-mail:	

### Subject of the complaint:

Model:	Reason for return:		
Serial number:	seized	loud	leaking
Bought on document no.:			
Date of installation:	Without pressure:		
Date of breakdown:	Failure of elect. equipment		
	Other:		

### Additional information at installing the compressor condensing unit:

Model of condensing unit:
Serial number:

### Additional information the complaint procedure:

Type of refrigerant:	Heating:	Yes	No
Filling of refrigerant (kg):			
Type of oil:	Using:		
	cooling	air conditioning	
	Heat pump	Other:	
Evaporating temperature (°C):			
Inlet temperature (°C):		Condensing temperature (°C):	
Ambient temperature (°C):		Fluid temperature (°C):	
Temperature in the refrigerant/freezer box (°C):		Discharge temperature (°C):	
Brand and type used filter drier:			

**Customer shall forward the complaint to the compressor with closed all inputs and outputs.**

Hand over:	Take over:
(name, date)	(name, date)

Customer agrees to irreversible dismantling of the product claimed in the complaint procedure by signing.

**Heat exchangers  
technical specification**

SWEP

Labeling scheme:

B35Hx40/1P-XX-X + connection type

- B - Type of heat exchanger
- 35 - Size of sheets
- H - Type of channels
- 40 - Number of sheets
- 1P - Arrangement of sheets
- XX - Material of sheets
- X - Pressure resistance



1P = standard performance

S – 1.4401 / AISI 316, M – Mo steel (SMO)

C – Cu, N – Nikl

H – high pressure (max. working pressure 45 bar)

U – soldering connection

Heat exchangers are supplied without insulation. Insulation must be ordered separately.

Max. pressure at 135°C	45 bar	Material of sheets	EN 10028/7-1,4401 (AISI 316)
Max. pressure at 225 °C	36 bar	Soldering material	Cu
Testing pressure	69 bar	Fixing material	EN 10028/7-1,4401 (AISI 316)
Min. working temperature	-196 °C		

**Heat exchangers**

SWEP

Code	Connection	Type of heat exchanger
	refrigerant / water	
47-32KT-B5HX10	4x3/4" & 16(20)	B5THx10/1P-SC-M
47-32KT-B5HX20	4x3/4" & 16(20)	B5THx20/1P-SC-M
47-32KT-B5HX30	4x3/4" & 16(20)	B5THx30/1P-SC-M
47-32KT-B8HX10	4x3/4" & 16(20)	B8THx10/1P-SC-M
47-32KT-B8HX20	4x3/4" & 16(20)	B8THx20/1P-SC-M
47-32KT-B8HX30	4x3/4" & 16(20)	B8THx30/1P-SC-M
47-32KT-B8HX40	4x3/4" & 16(20)	B8THx40/1P-SC-M
47-32KT-B10HX10	2x28U(20)+2x1" & 22U(20)	B10THx10/1P-SC-M
47-32KT-B10HX20	2x28U(20)+2x1" & 22U(20)	B10THx20/1P-SC-M
47-32KT-B10HX20-A	4x1" (45)	B10THx20/1P-SC-M
47-32KT-B10HX30	2x28U(20)+2x1" & 22U(20)	B10THx30/1P-SC-M
47-32KT-B10HX40	2x28U(20)+2x1" & 22U(20)	B10THx40/1P-SC-M
47-32KT-B10HX50	2x28U(20)+2x1" & 22U(20)	B10THx50/1P-SC-M
47-32KT-B10HX60	2x28U(20)+2x1" & 22U(20)	B10THx60/1P-SC-M
47-32KT-B12HX30	4x1 1/4" & 28U(27)	B12THx30/1P-SC-M
47-32KT-B12MTX50	4x1 1/4" & 28U(27)	B12MTx50/1P-SC-S
47-32KT-B15HX20	2x22U(20)+2x3/4" & 16U(20)	B15THx20/1P-SC-M
47-32KT-B15HX40	2x22U(20)+2x3/4" & 16U(20)	B15THx40/1P-SC-M
47-32KT-B25HX16	2x22U(20)+2x1" & 22U(20)	B25THx16/1P-SC-M
47-32KT-B25HX20	2x22U(20)+2x1" & 22U(20)	B25THx20/1P-SC-M

**Heat exchangers**
**SWEP**

Code	Connection	Type of heat exchanger
	water / refrigerant	
47-32KT-B25HX30	2x22U(20)+2x1"&22U(20)	B25THx30/1P-SC-M
47-32KT-B25HX40	2x22U(20)+2x1"&22U(20)	B25THx40/1P-SC-M
47-32KT-B25HX50	2x28U(20)+2x1"&22U(20)	B25THx50/1P-SC-M
47-32KT-B25HX60	2x28U(20)+2x1"&22U(20)	B25THx60/1P-SC-M
47-32KT-B25HX70	2x28U(20)+2x1"&22U(20)	B25THx70/1P-SC-M
47-32KT-B25HX80	2x28U(20)+2x1"&22U(20)	B25THx80/1P-SC-M
47-32KT-B35HX40	2x42U + 2x1 1/2"	B35Hx40/1P-SC-S
47-32KT-B35HX50	2x42U + 2x1 1/2"	B35Hx50/1P-SC-S
47-32KT-B35HX60	2x42U + 2x1 1/2"	B35Hx60/1P-SC-S
47-32KT-B35HX100	4x2" (54)	B35Hx100/1P-SC-S
47-32KT-B35HX120	4x2" (54)	B35Hx120/1P-SC-S
47-32KT-B80HX30	2x35.1(27)+2x1 1/4"&28U(27)	B80Hx30/1P-SC-M
47-32KT-B80HX50	2x35.1(27)+2x1 1/4"&28U(27)	B80Hx50/1P-SC-M
47-32KT-B80HX60	2x35.1(27)+2x1 1/4"&28U(27)	B80Hx60/1P-SC-M
47-32KT-B80HX70	2x35.1(27)+2x1 1/4"&28U(27)	B80Hx70/1P-SC-M
47-32KT-B80HX80	2x35.1(27)+2x1 1/4"&28U(27)	B80Hx80/1P-SC-F
47-32KT-B120THX40	2x42U(27)+2x1 1/2"&35.1(27)	B120THx40/1P-SC-M
47-32KT-B120THX50	2x42U(27)+2x1 1/2"&35.1(27)	B120THx50/1P-SC-M
47-32KT-B120THX60	2x42U(27)+2x1 1/2"&35.1(27)	B120THx60/1P-SC-M
47-32KT-B120THX80	2x42U(27)+2x1 1/2"&35.1(27)	B120THx80/1P-SC-M
47-32KT-V80HX30	16(27)+35.1(27)+2x1 1/4"&28U(27)	V80Hx30/1P-SC-S
47-32KT-V80HX40	16(27)+35.1(27)+2x1 1/4"&28U(27)	V80Hx40/1P-SC-S
47-32KT-V80HX50	16(27)+35.1(27)+2x1 1/4"&28U(27)	V80Hx50/1P-SC-S
47-32KT-V80HX60	16(27)+35.1(27)+2x1 1/4"&28U(27)	V80Hx60/1P-SC-S
47-32KT-V80HX70	16(27)+35.1(27)+2x1 1/4"&28U(27)	V80Hx70/1P-SC-S
47-32KT-V80HX80	16(27)+35.1(27)+2x1 1/4"&28U(27)	V80Hx80/1P-SC-S
47-32KT-V120THX50	22U(27)+42U(27)+2x1 1/2"&35.1(27)	V120THx50/1P-SC-M
47-32KT-V120THX60	22U(27)+42U(27)+2x1 1/2"&35.1(27)	V120THx60/1P-SC-M

**Insulations of heat exchangers**
**SWEP**

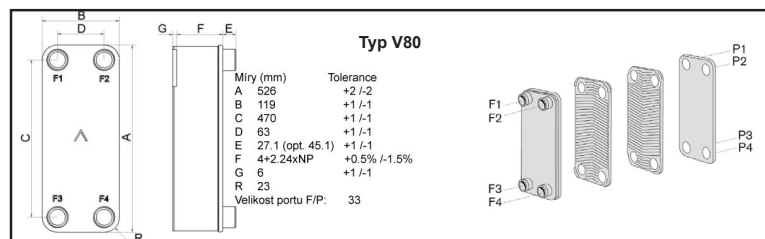
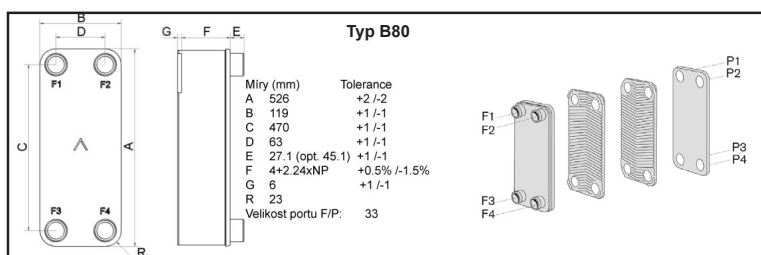
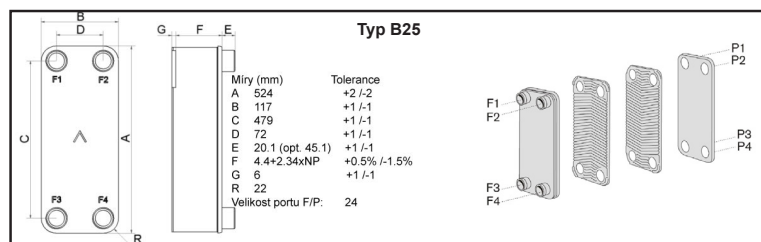
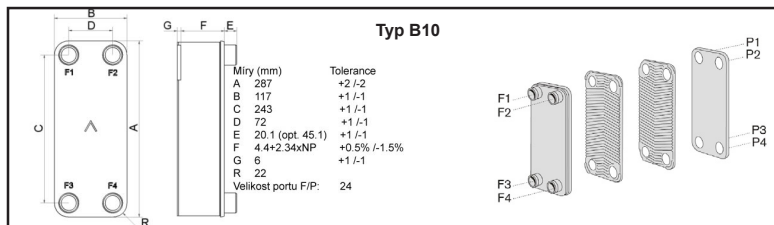
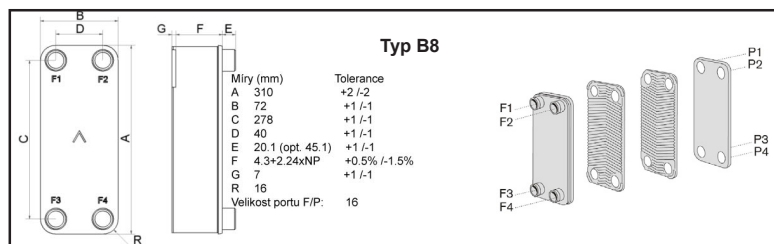
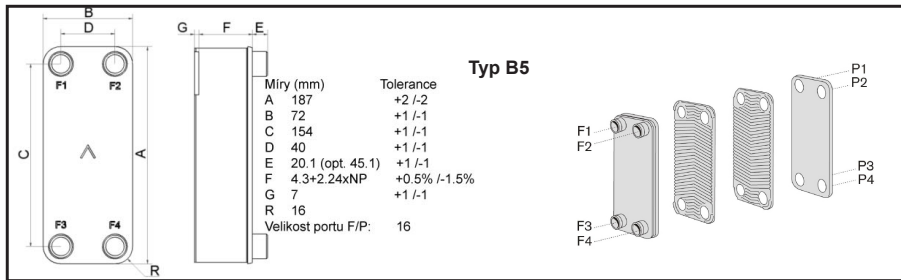
Code of heat exchanger	Insulation EPP - polystyrene	Insulation - rubber
47-32KT-B5Hx10	47-32KTI-41652	47-32KTI-41432
47-32KT-B5Hx20	47-32KTI-41652	47-32KTI-41432
47-32KT-B5Hx30	47-32KTI-41653	47-32KTI-41432
47-32KT-B8Hx10	47-32KTI-41654	47-32KTI-41614
47-32KT-B8Hx20	47-32KTI-41654	47-32KTI-41614
47-32KT-B8Hx30	47-32KTI-41655	47-32KTI-41614
47-32KT-B8Hx40	47-32KTI-41655	47-32KTI-41615
47-32KT-B10Hx10	47-32KTI-41658	47-32KTI-31763
47-32KT-B10Hx20-A	47-32KTI-41658	47-32KTI-31763

Code of heat exchanger	Insulation EPP - polystyrene	Insulation - rubber
47-32KT-B10Hx20	47-32KTI-41658	47-32KTI-31763
47-32KT-B10Hx30	47-32KTI-41659	47-32KTI-31763
47-32KT-B10Hx40	47-32KTI-41659	47-32KTI-31763
47-32KT-B10Hx50	47-32KTI-41660	47-32KTI-33339
47-32KT-B10Hx60	47-32KTI-41660	47-32KTI-33339
47-32KT-B12Hx30	47-32KTI-41659	47-32KTI-31697
47-32KT-B12MTX50	47-32KTI-41660	47-32KTI-33341
47-32KT-B15HX20	47-32KTI-41656	47-32KTI-32099
47-32KT-B15HX40	47-32KTI-41657	47-32KTI-32099
47-32KT-B25HX16	47-32KTI-41666	47-32KTI-31701
47-32KT-B25HX20	47-32KTI-41666	47-32KTI-31701
47-32KT-B25HX30	47-32KTI-41667	47-32KTI-31701
47-32KT-B25HX40	47-32KTI-41668	47-32KTI-31701
47-32KT-B25HX50	47-32KTI-41669	47-32KTI-31953
47-32KT-B25HX60	47-32KTI-41669	47-32KTI-31953
47-32KT-B25HX70	47-32KTI-41670	47-32KTI-31953
47-32KT-B25HX80	47-32KTI-41670	47-32KTI-31953
47-32KT-B35HX40		47-32KTI-32116
47-32KT-B35HX50		47-32KTI-32116
47-32KT-B35HX60		47-32KTI-32116
47-32KT-B35HX100		47-32KTI-33343
47-32KT-B35HX120		47-32KTI-33343
47-32KT-B80HX30	47-32KTI-41667	47-32KTI-31705
47-32KT-B80HX50	47-32KTI-41669	47-32KTI-41358
47-32KT-B80HX60	47-32KTI-41669	47-32KTI-41358
47-32KT-B80HX70	47-32KTI-41670	47-32KTI-41358
47-32KT-B80HX80	47-32KTI-41670	47-32KTI-41358
47-32KT-B120THX40		47-32KTI-31709
47-32KT-B120THX50		47-32KTI-31709
47-32KT-B120THX60		47-32KTI-31709
47-32KT-B120THX80		47-32KTI-41355
47-32KT-V80HX30		47-32KTI-31705
47-32KT-V80HX40		47-32KTI-31705
47-32KT-V80HX50		47-32KTI-41358
47-32KT-V80HX60		47-32KTI-41358
47-32KT-V80HX70		47-32KTI-41358
47-32KT-V80HX80		47-32KTI-41358
47-32KT-V120THX50		47-32KTI-31709
47-32KT-V120THX60		47-32KTI-31709



## Technical parameters

## SWEP



## Tube condensers

ONDA

Code	Type	Capacity [kW]	Flow [m³/h]		Pressure loss [kPa]	
			city water	tower water	city water	tower water
47-32CT042	CT42	42	7,3	2,4	53,0	42,0
47-32CT052	CT52	52	9,0	-	52,0	-
47-32CT063	CT63	63	10,9	3,6	53,0	42,0
47-32CT083	CT83	83	14,4	4,8	45,0	36,0
47-32CT104	CT104	104	18,0	6,0	45,0	36,0
47-32CT125	CT125	125	21,6	7,2	45,0	36,0
47-32CT146	CT146	146	25,3	8,4	45,0	36,0
47-32CT167	CT167	167	28,9	9,6	45,0	36,0
47-32CT188	CT188	188	32,5	10,8	45,0	36,0
47-32CT208	CT208	208	36,0	12,0	45,0	36,0

Models CT with capacity from 229 - 1920 kW on request.

Type	Refrigerant volume [l]	Water volume [l]	Diameters [mm] length x diameter	Weight [kg]
CT42	15,1	4,3	1115 x 170	44
CT52	14,0	5,2	1115 x 170	47
CT63	12,9	6,0	1115 x 170	49
CT83	30,7	7,7	2115 x 170	76
CT104	28,5	9,5	2115 x 170	82
CT125	26,2	11,2	2115 x 170	87
CT146	37,6	13,4	2115 x 220	91
CT167	35,3	15,1	2115 x 220	96
CT188	33,1	16,9	2115 x 220	101
CT208	30,9	18,6	2115 x 220	106

Code	Type	Capacity [kW]	Flow [m³/h]		Pressure loss [kPa]	
			city water	tower water	city water	tower water
47-32HC02,8	HC2,8	2,6	0,34	0,19	2	1
47-32HC06	HC6	5,2	0,68	0,35	8	3
47-32HC09	HC9	7,9	1,04	0,56	20	7
47-32HC13	HC13	10,8	1,42	0,86	42	18
47-32HC18	HC18	13,3	1,74	1,16	58	30
47-32HC29	HC29	23,0	3,02	1,89	47	21
47-32HC35	HC35	26,5	3,47	2,32	62	29
47-32HC50	HC50	39,0	5,11	3,31	67	31

Type	Refrigerant volume [l]	Water volume [l]	Diameters [mm] length x diameter	Weight [kg]
HC2,8	4,8	0,5	315 x 168	8,0
HC6	4,6	0,7	315 x 168	8,5
HC9	8,4	0,8	430 x 194	11,5
HC13	8,3	1,0	430 x 194	12,0
HC18	8,1	1,2	430 x 194	13,0
HC29	19,3	2,0	465 x 273	22,5
HC35	19,0	2,6	465 x 273	23,0
HC50	20,1	4,3	515 x 273	27,5

## Water valves

Danfoss

Code	Type	Working range	Connection	
			water	refrigerant
47-32003N1100	WVFX 10	3,5 - 16 bar	G 3/8"	1/4" / 6 mm
47-32003N1105	WVFX 10	4 - 23 bar	G 3/8"	1/4" / 6 mm
47-32003N2100	WVFX 15	3,5 - 16 bar	G 1/2"	1/4" / 6 mm
47-32003N2105	WVFX 15	4 - 23 bar	G 1/2"	1/4" / 6 mm
47-32003N3100	WVFX 21	3,5 - 16 bar	G 3/4"	1/4" / 6 mm
47-32003N3105	WVFX 21	4 - 23 bar	G 3/4"	1/4" / 6 mm
47-32003N4100	WVFX 25	3,5 - 16 bar	G 1"	1/4" / 6 mm
47-32003N4105	WVFX 25	4 - 23 bar	G 1"	1/4" / 6 mm
47-32003F1232	WVFX 32	3,5 - 16 bar	G 1.1/4"	1/4" / 6 mm
47-32003F1240	WVFX 42	3,5 - 16 bar	G 1.1/2"	1/4" / 6 mm

## Water valves

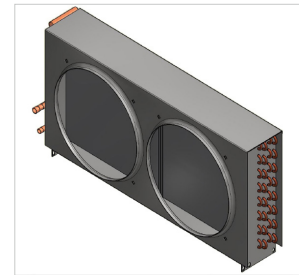
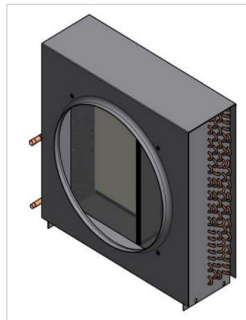
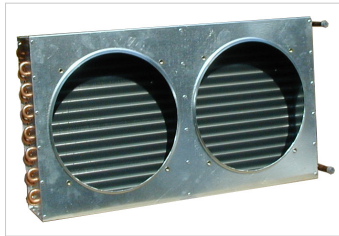
Castel

Code	Type	Working range	Connection	
			water	refrigerant
47-3230-3210-03	3210/03	5 - 18 bar	G 3/8"	1/4" / 6 mm
47-3230-3210-04	3210/04	5 - 18 bar	G 1/2"	1/4" / 6 mm
47-3230-3210-06	3210/06	5 - 18 bar	G 3/4"	1/4" / 6 mm

## Flow switch

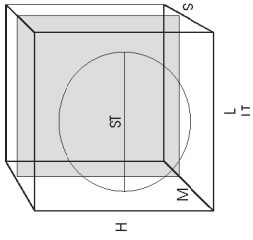
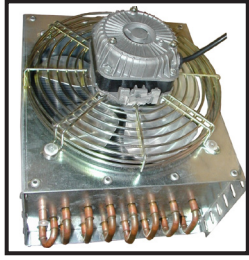
Danfoss

Code	Description
47-321230-00	flow switch DANFOSS, SAGInoMIYA FQS-U30G, (061H4000), connection G 1", contact system SPDT, piping diameter range Ø 25 - 150 mm

**RTV without ventilators**


Code	Capacity [kW]	Suitable ventilator	Diameters [mm]		Air flow [m <sup>3</sup> /h]
			width / height / depth		
47-32KT0350		120 x 120 x 25/38	140 x 130 x 35		
47-32KT0400		120 x 120 x 25/38	120 x 135 x 50		
47-32KT0570	0,57	1 x 172 mm / 5W	243 x 203 x 110		280
47-32KT0680	0,68	1 x 172 mm / 5W	243 x 203 x 130		250
47-32KT0750	0,75	1 x 172 mm / 5W	243 x 203 x 130		250
47-32KT0860	0,86	1 x 200 mm / 7W	273 x 228 x 110		440
47-32KT1000	1,00	1 x 200 mm / 10W	273 x 228 x 130		400
47-32KT1500	1,50	1 x 230 mm / 10 W	303 x 253 x 130		690
47-32KT1900	1,90	1 x 254 mm / 16 W	333 x 278 x 130		740
47-32KT4-023	2,30	1 x 300 mm	404 x 353 x 130		
47-32KT4-027	2,75	1 x 300 mm	404 x 353 x 150		
47-32KT3000	3,00	1 x 300 mm	403 x 150 x 355		
47-32KT4-036	3,60	1 x 300 mm	504 x 391 x 176		1365
47-32KT4-040	4,00	1 x 300 mm	504 x 361 x 136		1550
47-32KT2100	4,80	2 x 254 mm	600 x 420 x 160		
47-32KT4-063	6,30	1 x 350 mm	600 x 420 x 160		1560
47-32KT4-068	6,80	1 x 350 mm	830 x 411 x 203		3884
47-32KT2300	7,23	2 x 350 mm	900 x 470 x 160		1300
47-32KT4-078	7,80	2 x 300 mm	760 x 371 x 155		
47-32KT4-104	10,40	2 x 350 mm	900 x 441 x 174		3025
47-32KT2500	11,21	2 x 450 mm	1100 x 570 x 160		
47-32KT4-131	13,10	1 x 450 mm	830 x 561 x 222		3375
47-32KT4-132	13,20	2 x 350 mm	909 x 620 x 205		3675
47-32KT2600	15,20	2 x 450 mm	1100 x 570 x 180		
47-32KT4-163	16,30	1 x 500 mm	703 x 695 x 262		4400
47-32KT2800	21,60	2 x 450 mm	1091 x 660 x 270		
47-32KT4-230	23,00	2 x 450 mm	1100 x 611 x 222		7248
47-32KT2900	24,40	2 x 450 mm	1091 x 660 x 270		
47-32KT4-266	26,60	2 x 450 mm	1310 x 636 x 222		7804
47-32KT4-310	31,00	2 x 500 mm	1289 x 822 x 272		7375
47-32KT4-317	31,70	2 x 450 mm	1550 x 661 x 242		9100
47-32KT3100	35,00	2 x 450 mm	1100 x 570 x 200		
47-32KT4-433	43,30	2 x 500 mm	1593 x 864 x 273		10770





## RTV complete

Condensers are equipped by ventilators EBM PAFST.

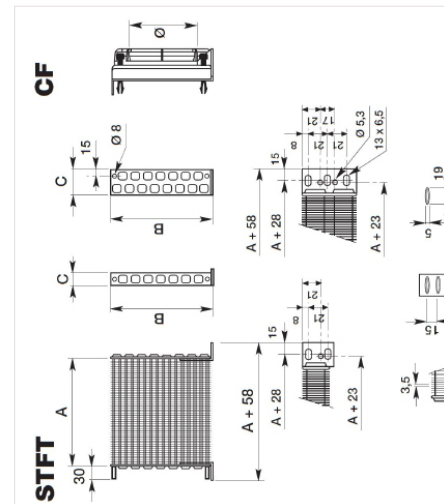
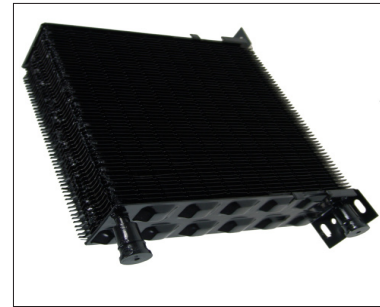
Condensers (substitution)	STVF - LUVÉ	47	67	75	93	100	139	194	KTK 2300	KTK 2750	KTK 3000
	RTV	KTK 0570	KTK 0680	KTK 0750	KTK 0860	KTK 1000	KTK 1500	KTK 1900			
Capacity at $\Delta T$ 15°K - R22	W	570	680	750	860	1000	1500	1900	2300	2750	3000
Air flow	m <sup>3</sup> /h	280	250	250	440	400	690	740	1300	1200	
Diameter of blade (n°1)	D (mm)	172	172	172	200	200	230	254	300	300	300
Power of ventilator	W	5	5	5	7	7	10	16	25	25	25
Electricity consumption 1~230V~50Hz	A	0,2	0,2	0,2	0,2	0,2	0,3	0,45	0,75	0,75	
Condenser's tube diameter with geometry 25x21,65	mm	8	8	8	8	8	8	8	8	8	8
Surface	m <sup>2</sup>	1,12	1,66	1,7	1,47	2,17	2,73	3,47	3,63	5,36	
Internal volume of tube	dm <sup>3</sup>	0,16	0,18	0,25	0,2	0,23	0,28	0,46	0,49	0,53	
Diameter	L mm	190	190	190	220	220	250	280	350	350	
	LT mm	243	243	243	273	273	303	333	403	403	355
	H mm	203	203	203	228	228	253	278	353	353	403
	S mm	110	130	130	110	130	130	130	130	150	150
	M mm	63	63	63	67	67	73	76	123	123	
	ST mm	173	193	193	177	197	203	206	253	273	
Connection	D (mm)	8	8	8	8	8	8	8	8	8	8
Weight	kg	2,6	2,9	3	3,3	3,6	3,9	5,3	6,5	7,5	6,5
Type of condenser		KTK 0570	KTK 0680	KTK 0750	KTK 0860	KTK 1000	KTK 1500	KTK 1900	KTK 2300	KTK 2750	KTK 3000
Code for ordering		47-32KTK0570	47-32KTK0680	47-32KTK0750	47-32KTK0860	47-32KTK1000	47-32KTK1500	47-32KTK1900	47-32KTK2300	47-32KTK2750	47-32KTK3000

## Tubeless condensers STFT

## LU-VE Contardo

Capacity at  $\Delta T$  15 K.

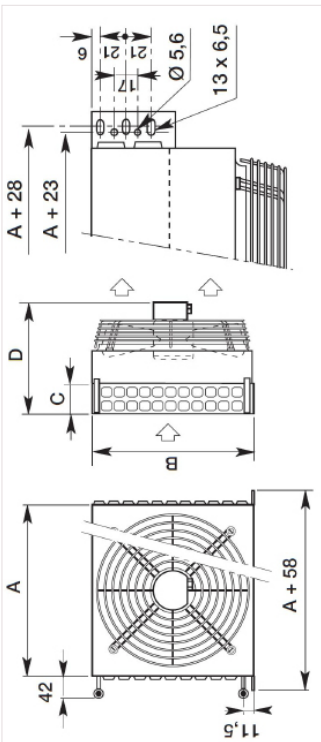
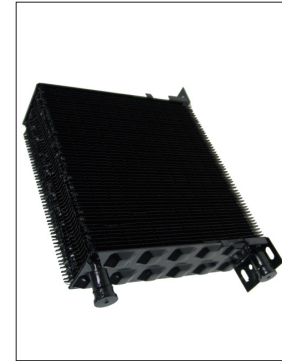
Code	Capacity [W]	Air flow [m <sup>3</sup> /h]	Connection	Ventilator propeller Ø [mm]	Diameter [mm]			Suitable fan shroud
					A	B	C	
47-32STFT101150	380		180° - direct	1x154	155	155	30	
47-32STFT12118	470	255	180° - direct	1x170	185	184	30	CF18
47-32STFT12118-90	470	255	90° - angle	1x170	185	184	30	CF18
47-32STFT12218	745	220	180° - direct	1x170	185	184	60	CF18
47-32STFT12218-90	745	220	90° - angle	1x170	185	184	60	CF18
47-32STFT14121	665	330	180° - direct	1x200	215	214	30	CF21
47-32STFT14221	1000	290	180° - direct	1x200	215	214	60	CF21
47-32STFT14221-90	1000	290	90° - angle	1x200	215	214	60	CF21
47-32STFT16124	925	450	180° - direct	1x230	245	244	30	CF24
47-32STFT16224	1385	390	180° - direct	1x230	245	244	60	CF24
47-32STFT16224-90	1385	390	90° - angle	1x230	245	244	60	CF24
47-32STFT16224-R	1385	390	180° - direct right	1x230	245	244	60	CF24
47-32STFT18127	1235	650	180° - direct	1x254	275	274	30	CF27
47-32STFT18227	1935	570	180° - direct	1x254	275	274	60	CF27
47-32STFT18227-90	1935	570	90° - angle	1x254	275	274	60	CF27



**Tubeless condensers  
STVF - complete**
**LU-VE  
Contardo**

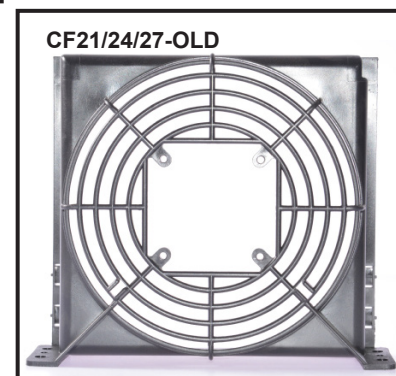
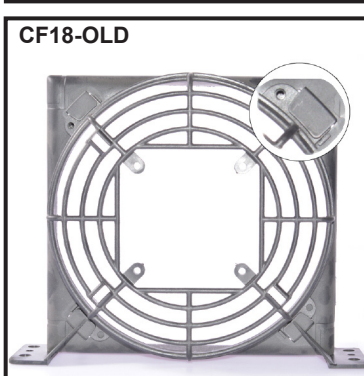
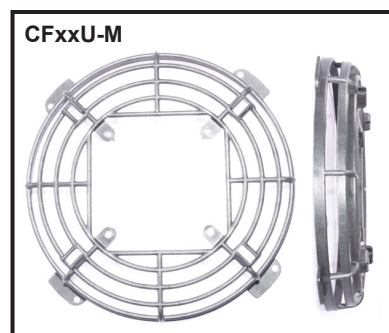
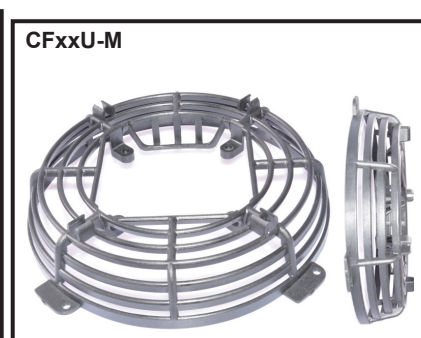
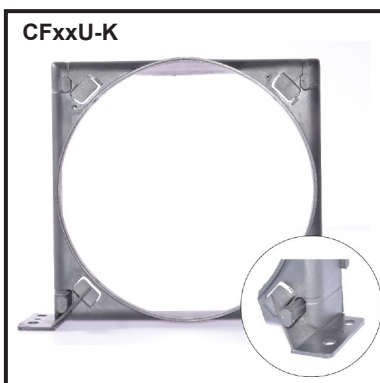
 Capacity in W at  $\Delta T$  15 K. Condenser are equipped by ventilators EBM PAPST.

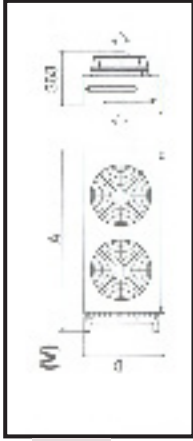
Code	Capacity [W]	Air-flow [m <sup>3</sup> /h]	Ventilator Ø [mm]	Connection	Fan motor specification		Diameters				
					[W]	[A]	[dBA]	A [mm]	B [mm]	C [mm]	D [mm]
47-32STVF47	470	255	1x170	180o - direct	29	0,18	29	185	184	30	141
47-32STVF67	665	330	1x200	180o - direct	30	0,2	34	215	214	30	143
47-32STVF75	745	220	1x170	180o - direct	29	0,18	29	185	184	60	171
47-32STVF75-K	745	220	1x170	90o - angle	29	0,18	29	185	184	60	171
47-32STVF93	925	450	1x230	180o - direct	33	0,21	36	245	244	30	148
47-32STVF100	1000	290	1x200	180o - direct	30	0,2	34	215	214	60	173
47-32STVF100-K	1000	290	1x200	90o - angle	30	0,2	34	215	214	60	173
47-32STVF124-K	1235	650	1x254	90o - angle	45	0,32	40	275	274	30	152
47-32STVF139	1385	390	1x230	180o - direct	33	0,21	36	245	244	60	178
47-32STVF139-K	1385	390	1x230	90o - angle	33	0,21	36	245	244	60	178
47-32STVF157-K	1565	440	2x170	90o - angle	58	0,36	32	395	184	60	171
47-32STVF194	1935	570	1x254	180o - direct	45	0,32	40	275	274	60	182
47-32STVF194-K	1935	570	1x254	90o - angle	45	0,32	40	275	274	60	182
47-32STVF210	2085	580	2X200	180o - direct	60	0,4	37	455	214	60	173
47-32STVF273	2730	900	1x275	180o - direct	65	0,44	40	335	304	60	215
47-32STVF278	2770	780	2X230	180o - direct	66	0,42	39	515	244	60	178
47-32STVF370	3670	1140	2x254	180o - direct	90	0,64	43	575	274	60	182
47-32STVF520-K	5210	1700	1x330	90o - angle	140	0,6	43	435	380	60	255
47-32STVF546D-K	5460	1800	2x275	90o - angle	130	0,88	43	675	304	60	215



**Condensers STVF  
fan shroud**
**LU-VE  
Contardo**

Code	Description	Blade ø [mm]
47-32CF18	fan shroud LU-VE - STVF, CF 18, d = 178 mm	172
47-32CF18-K	fan shroud housing LU-VE - STVF, CF 18	
47-32CF18-M	fan guard LU-VE - STVF, CF 18	
47-32CF18-OLD	fan shroud LU-VE - STVF, CF 18 - old type	
47-32CF18U-K	fan shroud housing LU-VE - STVF, CF 18 (U)	
47-32CF18U-M	fan guard LU-VE - STVF, CF 18 (U)	200
47-32CF21	fan shroud LU-VE -STVF,CF 21, d = 206 mm	
47-32CF21-K	fan shroud housing LU-VE - STVF, CF 21	
47-32CF21-M	fan guard LU-VE - STVF, CF 21	230
47-32CF21-OLD	fan shroud LU-VE - STVF, CF 21, d = 206 mm, old type	
47-32CF24	fan shroud LU-VE -STVF,CF 24, d = 236 mm	
47-32CF24-K	fan shroud housing LU-VE - STVF, CF 24	
47-32CF24-M	fan guard LU-VE - STVF, CF 24	254
47-32CF24-OLD	fan shroud LU-VE - STVF, CF 24, d = 236 mm, old type	
47-32CF27	fan shroud LU-VE-STVF,CF27, d = 260 mm	
47-32CF27-K	fan shroud housing LU-VE - STVF, CF 27	
47-32CF27-M	fan guard LU-VE - STVF, CF 27	
47-32CF27-OLD	fan shroud LU-VE - STVF, CF 27, d = 260 mm	
47-32CF33	fan shroud LU-VE-STVF, CF33	



**Condensers SHV**  
**Ø 350 mm**
**LU-VE**  
**Contardo**


Fin spacing: 2,1 mm  
 Capacity in kW at  $\Delta T$  15 K.

Code	Capacity [kW]	Air-flow [m <sup>3</sup> /h]	No. of ventilators x Ø [mm]	Ventilator specification			Diameters [mm]		
				[W]	[A]	[dB]	length A	width	height D
47-32SHVN-10-2	10,3	2 300	1 x 350	180	0,85	40	723	469	578
47-32SHVN-10-4	11,4	3 400	2 x 330	270	1,2	41	1057	305	463
47-32SHVN-15-5	17	4 800	2 x 350	360	1,7	43	1294	469	578
47-32SHVN-19-0	19,6	4 200	2 x 350	360	1,7	43	1294	469	578
47-32SHVN-20-4	20,6	4 600	2 x 350	360	1,7	43	1294	469	578
47-32SHVN-23-2	25,5	7 200	3 x 350	540	2,55	45	1853	469	578
47-32SHVN-28-5	29,4	6 300	3 x 350	540	2,55	45	1853	469	578
47-32SHVN-38-1	39,2	8 400	4 x 350	720	3,4	46	1298	469	1127
47-32SHVN-46-5	51	14 400	6 x 350	1080	5,1	48	1853	469	1127
47-32SHVN-57-0	58,8	12 600	6 x 350	1080	5,1	48	1853	469	1127
47-32SHVN-61-2	61,8	13 800	6 x 350	1080	5,1	48	1853	469	1127
47-32SHVN-76-0	78,4	16 800	8 x 350	1440	6,8	49	2408	469	1127



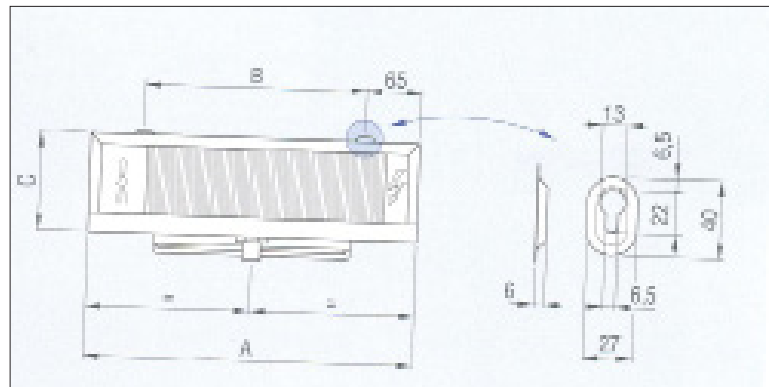
**Evaporators  
LUVATA (ECO)**
**EVS  
Serie**

Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø	Input [A]
47-32EVS-41	EVS-41	3,5 / 7	1 x 200	0,35
47-32EVS-61	EVS-61	3,5 / 7	1 x 200	0,35
47-32EVS-101	EVS-101	3,5 / 7	2 x 200	0,7
47-32EVS-131	EVS-131	3,5 / 7	2 x 200	0,7
47-32EVS-181	EVS-181	3,5 / 7	3 x 200	1,05
47-32EVS-201	EVS-201	3,5 / 7	2 x 200	0,7
47-32EVS-271	EVS-271	3,5 / 7	2 x 200	0,7
47-32EVS-291	EVS-291	3,5 / 7	3 x 200	1,05
47-32EVS-391	EVS-391	3,5 / 7	3 x 200	1,05
47-32EVS-521	EVS-521	3,5 / 7	4 x 200	1,4
47-32EVSB-41	EVSB-41	4,5 / 9	1 X 200	0,35
47-32EVSB-61	EVSB-61	4,5 / 9	1 X 200	0,35
47-32EVSB-101	EVSB-101	4,5 / 9	2 X 200	0,7
47-32EVSB-131	EVSB-131	4,5 / 9	2 X 200	0,7
47-32EVSB-181	EVSB-181	4,5 / 9	3 X 200	1,05
47-32EVSB-201	EVSB-201	4,5 / 9	2 x 200	0,7
47-32EVSB-271	EVSB-271	4,5 / 9	2 x 200	0,7
47-32EVSB-291	EVSB-291	4,5 / 9	3 x 200	1,05
47-32EVSB-391	EVSB-391	4,5 / 9	3 x 200	1,05
47-32EVSB-521	EVSB-521	4,5 / 9	4 x 200	1,4

Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø	Input [A]
47-32EVS-41ED	EVS-41ED	3,5 / 7	1 x 200	0,35
47-32EVS-61ED	EVS-61ED	3,5 / 7	1 x 200	0,35
47-32EVS-101ED	EVS-101ED	3,5 / 7	2 x 200	0,7
47-32EVS-131ED	EVS-131ED	3,5 / 7	2 x 200	0,7
47-32EVS-181ED	EVS-181ED	3,5 / 7	3 x 200	1,05
47-32EVS-201ED	EVS-201ED	3,5 / 7	2 x 200	0,7
47-32EVS-271ED	EVS-271ED	3,5 / 7	2 x 200	0,7
47-32EVS-291ED	EVS-291ED	3,5 / 7	3 x 200	1,05
47-32EVS-391ED	EVS-391ED	3,5 / 7	3 x 200	1,05
47-32EVS-521ED	EVS-521ED	3,5 / 7	4 x 200	1,4
47-32EVSB-41ED	EVSB-41ED	4,5 / 9	1 x 200	0,35
47-32EVSB-61ED	EVSB-61ED	4,5 / 9	1 x 200	0,35
47-32EVSB-101ED	EVSB-101ED	4,5 / 9	2 x 200	0,7
47-32EVSB-131ED	EVSB-131ED	4,5 / 9	2 x 200	0,7
47-32EVSB-181ED	EVSB-181ED	4,5 / 9	3 x 200	1,05
47-32EVSB-201ED	EVSB-201ED	4,5 / 9	2 x 200	0,7
47-32EVSB-271ED	EVSB-271ED	4,5 / 9	2 x 200	0,7
47-32EVSB-291ED	EVSB-291ED	4,5 / 9	3 x 200	1,05
47-32EVSB-391ED	EVSB-391ED	4,5 / 9	3 x 200	1,05
47-32EVSB-521ED	EVSB-521ED	4,5 / 9	4 x 200	1,4

Code	Capacity [kW] $\Delta T$ 8°C	Air flow [m³/h]	Surface [m²]	Air throw [m]	Diameter [mm]		Defrost [W]	Weight [kg]
					A	B		
47-32EVS-41ED	0,43	290	1,6	3,0	411	271	480	4,3
47-32EVS-61ED	0,53	260	2,6	2,5	411	271	480	4,9
47-32EVS-101ED	0,84	580	2,8	5,0	611	471	650	7,1
47-32EVS-131ED	1,01	520	4,1	4,5	611	471	680	7,7
47-32EVS-181ED	1,70	870	5,3	4,5	1 111	971	1 080	11,1
47-32EVS-201ED	1,46	565	6,2	4,0	611	471	680	10,7
47-32EVS-271ED	1,73	691	9,3	4,0	861	721	850	13,8
47-32EVS-291ED	2,06	780	8,2	4,0	1 111	971	1 200	12,1
47-32EVS-391ED	2,52	980	12,3	4,0	1 111	971	1 200	17
47-32EVS-521ED	3,29	1 300	16,6	4,0	1 461	1 321	1 600	23
47-32EVS-41ED	0,37	310	1,6	3,0	411	271	480	4,3
47-32EVS-61ED	0,47	280	1,9	2,5	411	271	480	4,9
47-32EVS-101ED	0,72	620	2,1	5,0	611	471	650	7,1
47-32EVS-131ED	0,89	560	3,2	4,5	611	471	680	7,7
47-32EVS-181ED	1,45	930	4,2	4,5	1 111	971	1 080	11,1
47-32EVS-201ED	1,40	605	4,8	4,5	611	471	680	10,7
47-32EVS-271ED	1,70	740	7,2	4,5	861	721	850	13,8
47-32EVS-291ED	1,77	830	6,3	4,0	1 111	971	1 200	12,1
47-32EVS-391ED	2,46	1 050	9,5	4,5	1 111	971	1 200	17
47-32EVS-521ED	3,22	1 400	12,8	4,5	1 461	1 321	1 600	23

Fin spacing 3,5 / 7 mm, temperature up to -12°C. Fin spacing 4,5 / 9 mm, temperature up to -25°C.  
 Drain connection 1/2". ED - el. defrost



**Evaporators  
LUVATA (ECO)**
**MIC  
Serie**

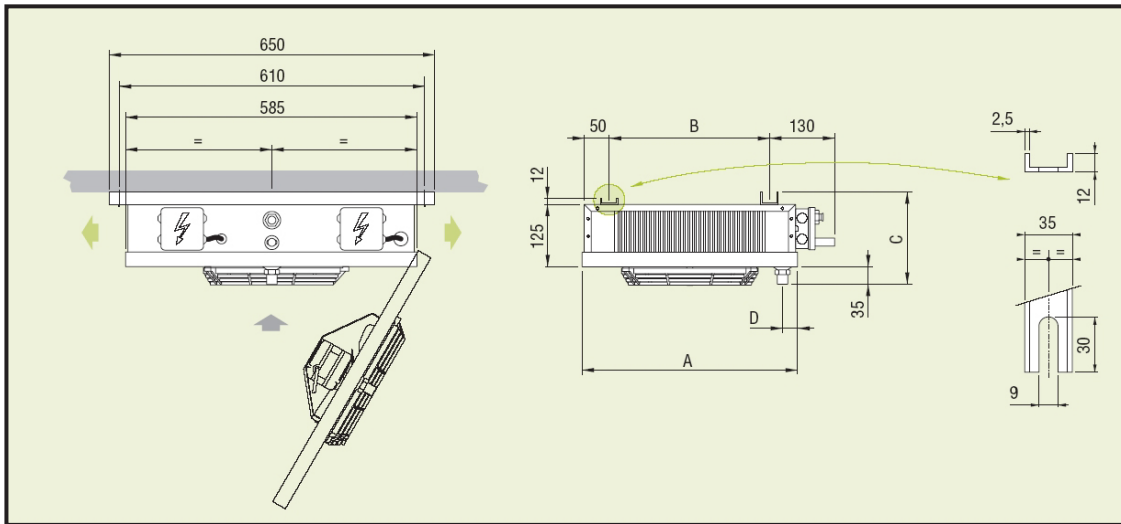
Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø [mm]	Input [A]
47-32MIC100	MIC100	4,5 / 9	1 x 230	0,35
47-32MIC160	MIC160	4,5 / 9	2 x 230	0,7
47-32MIC200	MIC200	4,5 / 9	2 x 230	0,7
47-32MIC300	MIC300	4,5 / 9	3 x 230	1,05
47-32MIC400	MIC400	4,5 / 9	4 x 230	1,4
47-32MIC500	MIC500	4,5 / 9	5 x 230	1,75
47-32MIC100ED	MIC100ED	4,5 / 9	1 x 230	0,35
47-32MIC160ED	MIC160ED	4,5 / 9	2 x 230	0,7
47-32MIC200ED	MIC200ED	4,5 / 9	2 x 230	0,7
47-32MIC300ED	MIC300-ED	4,5 / 9	3 x 230	1,05
47-32MIC400ED	MIC400-ED	4,5 / 9	4 x 230	1,4
47-32MIC500ED	MIC500-ED	4,5 / 9	5 x 230	1,75

Type	Capacity [W] $\Delta T = 8 [^{\circ}C]$	Air flow [m <sup>3</sup> /h]	Air throw [m]	Surface [m <sup>2</sup> ]	Defrost [W]	Weight [kg]
MIC100	660	460	2 x 2,5	3,9		8,0
MIC160	1170	1080	2 x 3	5,2		12,2
MIC200	1330	920	2 x 2,5	7,9		13,4
MIC300	1990	1380	2 x 2,5	11,8		19,0
MIC400	2660	1840	2 x 2,5	15,7		24,4
MIC500	3330	2300	2 x 2,5	19,7		29,9
MIC100ED	660	460	2 x 2,5	3,9	800	8,0
MIC160ED	1170	1080	2 x 3	5,2	1600	12,2
MIC200ED	1330	920	2 x 2,5	7,9	1600	13,4
MIC300ED	1990	1380	2 x 2,5	11,8	2400	19,0
MIC400ED	2660	1840	2 x 2,5	15,7	3000	24,4
MIC500ED	3330	2300	2 x 2,5	19,7	3600	29,9





Type	Diameters [mm]				Connection		Drain connection [GAS]
	A	B	C	D	In	Out [mm]	
MIC100	430	320	172	30	1/2" SAE	16	1/2"
MIC160	730	620	185	30	1/2" SAE	16	1/2"
MIC200	730	620	185	30	1/2" SAE	16	1/2"
MIC300	1030	920	185	30	1/2" SAE	22	1/2"
MIC400	1330	1220	185	35	1/2" SAE	22	1"
MIC500	1630	1520	185	35	1/2" SAE	22	1"



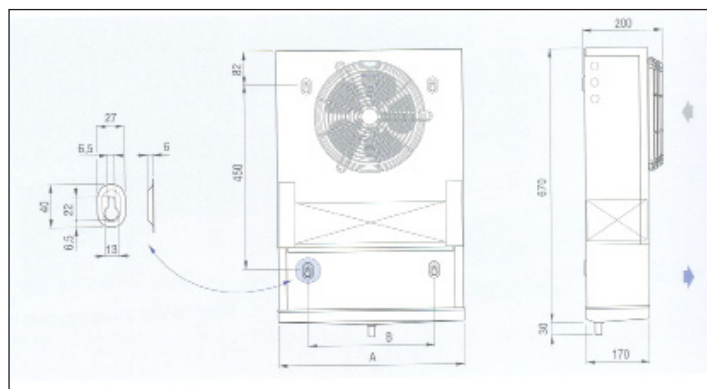
**Evaporators  
LUVATA (ECO)**
**EP  
Serie**

For room temperatures down to  $-5\text{ }^{\circ}\text{C}$  the electric defrost version is advisable, whereas for lower temperatures ( $\geq -12\text{ }^{\circ}\text{C}$ ) an additional electric heater in the drip tray is recommended.

Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø [mm]	Input [A]
47-32EP80	EP 80	3,5 / 7	1 x 230	0,35
47-32EP100ED	EP 100ED	3,5 / 7	1 x 230	0,35
47-32EP200ED	EP 200 ED	3,5 / 7	2 x 230	0,7
47-32EP300ED	EP 300ED	3,5 / 7	3 x 230	1,05

Type	Capacity [W] $\Delta T = 8\text{ }^{\circ}\text{C}$	Air flow [m <sup>3</sup> /h]	Air throw [m]	Surface [m <sup>2</sup> ]	Defrost [W]	Weight [kg]
EP 80	550	470	2	2,72		6,4
EP 100ED	770	440	2	3,88	300	7,1
EP 200 ED	1550	880	2	7,78	600	12,1
EP 300ED	2310	1320	2	11,65	900	16,8

Type	Dimensions [mm]		Connection		Drain connection [mm]
	A	B	In	Out	
47-32EP80	460	310	1/2" SAE	1/2" SAE	16
47-32EP100ED	460	310	1/2" SAE	1/2" SAE	16
47-32EP200ED	810	660	1/2" SAE	5/8" SAE	16
47-32EP300ED	1160	1010	1/2" SAE	5/8" SAE	16



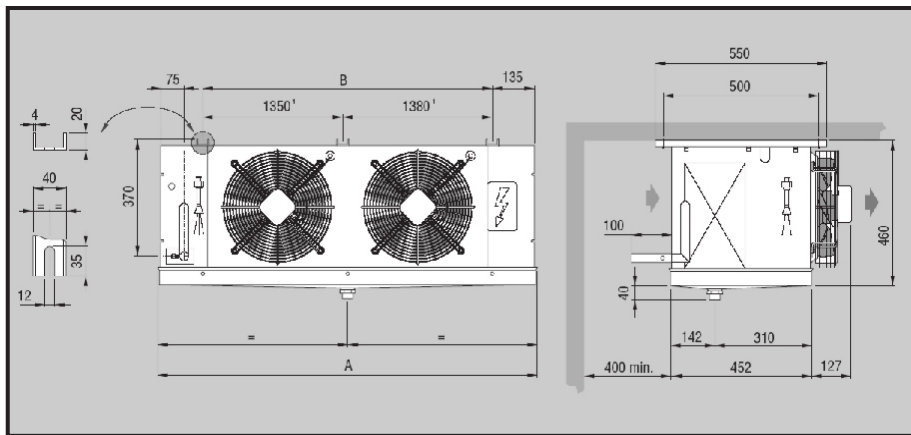
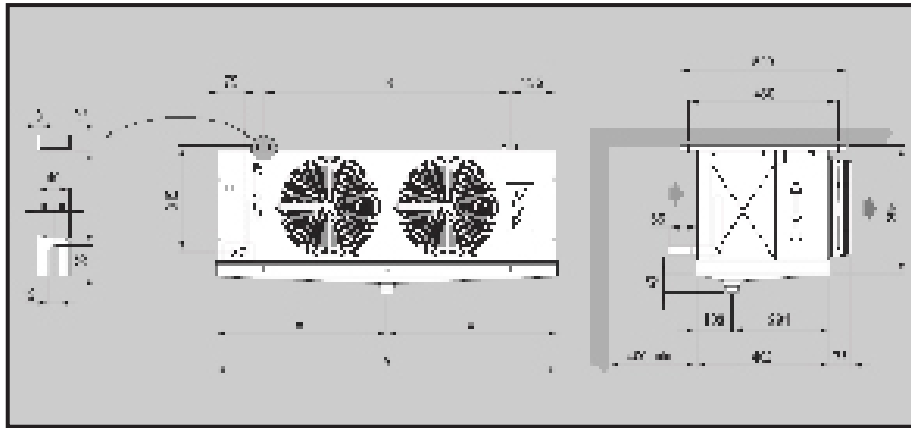
**Evaporators  
LUVATA (ECO)**
**CTE  
M6**

Fin spacing 6 mm for medium temperatures ( $\geq -15\text{ }^{\circ}\text{C}$ ) electric defrost version (ED) is recommended.  
Evaporators without defrost are recommended for positive temperatures

Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø [mm]	Input [A]
47-32CTE20	CTE 20M-6	6,0	1 x 250	0,47
47-32CTE29	CTE 29M-6	6,0	1 x 250	0,47
47-32CTE41	CTE 41M-6	6,0	2 x 250	0,94
47-32CTE58	CTE 58M-6	6,0	2 x 250	0,94
47-32CTE63	CTE 63M-6	6,0	3 x 250	1,41
47-32CTE86	CTE 86M-6	6,0	3 x 250	1,41
47-32CTE96	CTE 96M-6	6,0	2 x 315	0,84
47-32CTE115	CTE 115M-6	6,0	4 x 250	1,88
47-32CTE145	CTE 145M-6	6,0	3 x 315	1,26
47-32CTE194	CTE 194M-6	6,0	4 x 315	1,68
47-32CTE243	CTE 243M-6	6,0	5 x 315	2,10

Type	Capacity [W] $\Delta T = 8\text{ }^{\circ}\text{C}$	Air flow [m <sup>3</sup> /h]	Air throw [m]	Surface [m <sup>2</sup> ]	Weight [kg]
47-32CTE20	1200	820	8,5	4,4	15,3
47-32CTE29	1510	750	7,5	6,7	17,4
47-32CTE41	2400	1640	10	8,9	24,6
47-32CTE58	3020	1500	9	13,3	27,4
47-32CTE63	3600	2460	12	13,3	34,9
47-32CTE86	4520	2250	11	20	39,8
47-32CTE96	5330	3130	15	19,3	41,3
47-32CTE115	6010	3000	13	26,6	44,7
47-32CTE145	7990	4700	17	28,9	57,2
47-32CTE194	1060	6260	19	38,5	71,4
47-32CTE243	1330	7830	21	48,2	88,5

Type	Diameters		Connection [mm]		In [mm]	Drain connection [GAS]
	A	B	In	Out		
CTE 20M-6	680	380	1/2" SAE	16	12	1"
CTE 29M-6	680	380	1/2" SAE	16	12	1"
CTE 41M-6	1030	730	1/2" SAE	22	12	1"
CTE 58M-6	1030	730	1/2" SAE	22	12	1"
CTE 63M-6	1380	1080	1/2" SAE	22	12	1"
CTE 86M-6	1380	1080	1/2" SAE	22	12	1"
CTE 96M-6	1230	930	1/2" SAE	28	12	1"
CTE 115M-6	1730	1430	1/2" SAE	28	12	1"
CTE 145M-6	1680	1380	1/2" SAE	28	12	1"
CTE 194M-6	2130	1830	5/8" SAE	28	16	1"
CTE 243M-6	2580	2280	5/8" SAE	35	16	1"



## Evaporators LUVATA (ECO)

CTE  
M6 ED

Fin spacing 6 mm for medium temperatures ( $\geq -15$  °C) electric defrost version (ED) is recommended.

Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø	Input [A]
47-32CTE20M6ED	CTE20M6ED	6,0	1 x 250	0,47
47-32CTE29M6ED	CTE29M6ED	6,0	1 x 250	0,47
47-32CTE41M6ED	CTE41M6ED	6,0	2 x 250	0,94
47-32CTE58M6ED	CTE58M6ED	6,0	2 x 250	0,94
47-32CTE63M6ED	CTE63M6ED	6,0	3 x 250	1,41
47-32CTE86M6ED	CTE86M6ED	6,0	3 x 250	1,41
47-32CTE96M6ED	CTE96M6ED	6,0	2 x 315	0,84
47-32CTE115M6ED	CTE115M6ED	6,0	4 x 250	1,88
47-32CTE145M6ED	CTE145M6ED	6,0	3 x 315	1,26
47-32CTE194M6ED	CTE194M6ED	6,0	4 x 315	1,68
47-32CTE353A6ED	CTE353A6ED	6,0	3 x 350	2,88
47-32CTE354A6ED	CTE354A6ED	6,0	4 x 350	3,84
47-32CTE354E6ED	CTE354E6ED	6,0	4 x 350	3,84

Type	Capacity [W] $\Delta T = 8 [^{\circ}C]$	Air flow [m <sup>3</sup> /h]	Surface [m <sup>2</sup> ]	Air throw [m]	Diameters [mm]		Defrost [W]	Weight [kg]
					A	B		
CTE20M6ED	1200	820	4,4	8,5	680	380	750	15,3
CTE29M6ED	1510	750	6,7	7,5	680	380	750	17,4
CTE41M6ED	2400	1640	8,9	10	1030	730	1275	24,6
CTE58M6ED	3020	1500	13,3	9	1030	730	1275	27,4
CTE63M6ED	3600	2460	13,3	12	1380	1080	1800	34,9
CTE86M6ED	4520	2250	20,0	11	1380	1080	1800	39,8
CTE96M6ED	5330	3130	19,3	15	1230	930	2700	41,3
CTE115M6ED	6010	3000	26,6	13	1730	1430	2400	44,7
CTE145M6ED	7990	4700	28,9	17	1680	1380	3990	57,2
CTE194M6ED	10600	6260	38,5	19	2130	1830	5250	71,4
CTE353A6ED	14300	6950	47,4	18	1975	1680	6300	76,0
CTE354A6ED	19000	9270	63,2	20	2525	2230	8100	98,0
CTE354E6ED	15100	10040	42,1	21	1975	1680	6300	83,0

**Evaporators  
LUVATA (ECO)**
**CTE  
H3 ED**

Fin spacing 3,5 mm for medium temperatures ( $\geq +2 ^{\circ}C$ ).  
ED - defrost heater

Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø [mm]	Input [A]
47-32CTE53H3ED	CTE53H3ED	3,5	2 x 250	0,94
47-32CTE75H3ED	CTE75H3ED	3,5	2 x 250	0,94
47-32CTE80H3ED	CTE80H3ED	3,5	3 x 250	1,41
47-32CTE113H3ED	CTE113H3ED	3,5	3 x 250	1,41
47-32CTE116H3ED	CTE116H3ED	3,5	2 x 315	0,84
47-32CTE150H3ED	CTE150H3ED	3,5	4 x 250	1,88
47-32CTE174H3	CTE174H3	3,5	3 x 315	1,26
47-32CTE174H3ED	CTE174H3ED	3,5	3 x 315	1,26
47-32CTE233H3ED	CTE233H3ED	3,5	4 x 315	1,68

Type	Capacity [W] $\Delta T = 8 [^{\circ}C]$	Air flow [m <sup>3</sup> /h]	Surface [m <sup>2</sup> ]	Air throw [m]	Defrost [W]	Weight [kg]
CTE53H3ED	2730	1500	14,6	9	1275	25,1
CTE75H3ED	3330	1300	21,8	8	1275	27,9
CTE80H3ED	4110	2250	21,8	11	1800	35,4
CTE113H3ED	5000	1950	32,7	10	1800	40,3
CTE116H3ED	5880	2740	31,6	14	2700	41,8
CTE150H3ED	6670	2600	43,7	12	2400	45,2
CTE174H3	8810	4110	47,4	16	-	57,7
CTE174H3ED	8810	4110	47,4	16	3990	57,7
CTE233H3ED	11800	5480	63,1	18	5250	72,4

Type	Diameters [mm]		Connections [mm]		In [mm]	Drain connection [GAS]
	A	B	In	Out		
CTE53H3ED	1030	730	1/2" SAE	22	12	1"
CTE75H3ED	1030	730	1/2" SAE	22	12	1"
CTE80H3ED	1380	1080	1/2" SAE	22	12	1"
CTE113H3ED	1380	1080	1/2" SAE	22	12	1"
CTE116H3ED	1230	930	1/2" SAE	28	12	1"
CTE150H3ED	1730	1430	1/2" SAE	28	12	1"
CTE174H3	1680	1380	1/2" SAE	28	12	1"
CTE174H3ED	1680	1380	1/2" SAE	28	12	1"
CTE233H3ED	2130	1830	5/8" SAE	28	16	1"

### Evaporators LUVATA (ECO)

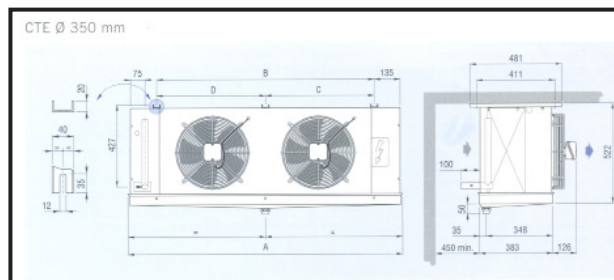
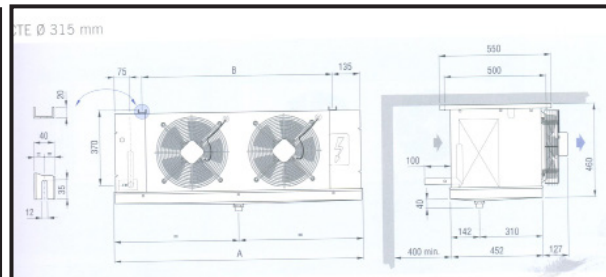
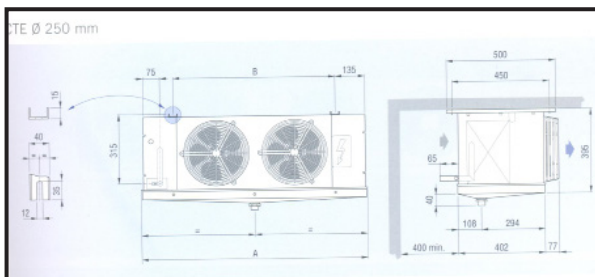
CTE  
L8 ED

Fin spacing 8,5 mm for medium temperatures ( $\geq -35$  °C).  
ED - defrost heater

Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø [mm]	Input [A]
47-32CTE16L8ED	CTE16L8ED	8,5	1 x 250	0,47
47-32CTE23L8ED	CTE23L8ED	8,5	1 x 250	0,47
47-32CTE34L8ED	CTE34L8ED	8,5	2 x 250	0,94
47-32CTE45L8ED	CTE45L8ED	8,5	2 x 250	0,94
47-32CTE51L8ED	CTE51L8ED	8,5	3 x 250	1,41
47-32CTE68L8ED	CTE68L8ED	8,5	3 x 250	1,41
47-32CTE84L8ED	CTE84L8ED	8,5	2 x 315	0,84
47-32CTE90L8ED	CTE90L8ED	8,5	4 x 250	1,88
47-32CTE125L8ED	CTE125L8ED	8,5	3 x 315	1,26
47-32CTE158L8ED	CTE158L8ED	8,5	4 x 315	1,68
47-32CTE254L8ED	CTE254L8ED	8,5	6 x 315	2,52
47-32CTE354E8ED	CTE354E8ED	8,5	4 x 350	3,84

Type	Capacity [W] $\Delta T = 8$ [°C]	Air flow [m³/h]	Surface [m²]	Air throw [m]	Defrost [W]	Weight [kg]
CTE16L8ED	1050	870	3,3	9	750	14,8
CTE23L8ED	1270	780	4,9	8	750	16,4
CTE34L8ED	2100	1740	6,5	11	1275	23,6
CTE45L8ED	2540	1560	9,8	10	1275	26,4
CTE51L8ED	3150	2610	9,8	13	1800	33,4
CTE68L8ED	3800	2340	14,7	12	1800	37,8
CTE84L8ED	4730	3270	14,2	16	2700	39,3
CTE90L8ED	5070	3120	19,6	14	2400	42,7
CTE125L8ED	7080	4900	21,3	18	3990	54,2
CTE158L8ED	9040	6530	28,4	20	5250	67,4
CTE254L8ED	14200	9810	42,6	24	7200	92,9
CTE354E8ED	13200	10500	31,0	22	6300	82,0

Type	Diameters [mm]		Connection [mm]		In [mm]	Drain connection [GAS]
	A	B	In	Out		
CTE16L8ED	680	380	1/2" SAE	16	12	1"
CTE23L8ED	680	380	1/2" SAE	16	12	1"
CTE34L8ED	1030	730	1/2" SAE	22	12	1"
CTE45L8ED	1030	730	1/2" SAE	22	12	1"
CTE51L8ED	1380	1080	1/2" SAE	22	12	1"
CTE68L8ED	1380	1080	1/2" SAE	22	12	1"
CTE84L8ED	1230	930	1/2" SAE	28	12	1"
CTE90L8ED	1730	1430	1/2" SAE	28	12	1"
CTE125L8ED	1680	1380	1/2" SAE	28	12	1"
CTE158L8ED	2130	1830	5/8" SAE	28	16	1"
CTE254L8ED	3030	2730	-	35	22	1"
CTE354E8ED	2525	2230	-	35	22	1"


**Evaporators  
LUVATA (ECO)**
**CTE  
A8 ED**

Fin spacing 8,5 mm for medium temperatures ( $\geq -35$  °C).  
ED - defrost heater

Code	Type	Fin spacing [mm]	Ventilator	
			No. x Ø [mm]	Input [A]
47-32CTE353A8ED	CTE353A8ED	8,5	3 x 350	2,88

Type	Capacity[kW] $\Delta T = 8$ [°C]	Air flow [m³/h]	Surface [m²]	Air throw [m]	Defrost [W]	Weight [kg]
CTE353A8ED	12,6	7410	34,9	19	7700	74

Type	Diameters [mm]		Connections [mm]		In [mm]	Drain connection [GAS]
	A	B	In	Out		
CTE353A8ED	1975	1680	-	35	22	1"

## Evaporators LUVATA (ECO)

DFE  
EL7 ED

Fin spacing 7 mm for medium temperatures ( $\geq -25$  °C).  
ED - defrost heater

Code	Type	Fin spacing [mm]	Ventilator		
			No. x Ø [mm]	Input [A]	
				H	L
47-32DFE31EL7ED	DFE31EL7ED	7	1 x 315	0,5	0,43
47-32DFE32EL7ED	DFE32EL7ED	7	2 x 315	1,0	0,86
47-32DFE33EL7ED	DFE33EL7ED	7	3 x 315	1,5	1,29
47-32DFE34EL7ED	DFE34EL7ED	7	4 x 315	2,0	1,72
47-32DFE35EL7ED	DFE35EL7ED	7	5 x 315	2,5	2,15
47-32DFE36EL7ED	DFE36EL7ED	7	6 x 315	3,0	2,58

Type	Capacity [kW] $\Delta T = 8$ [°C]		Air flow [m³/h]		Air throw [m]		Surface [m²]	Defrost [W]	Weight [kg]
	H	L	H	L	H	L			
DFE31EL7ED	2,17	1,92	1550	1200	2 x 8	2 x 6	7,6	1500	24
DFE32EL7ED	4,19	3,63	3100	2400	2 x 9	2 x 7	15,2	3000	39
DFE33EL7ED	6,42	5,48	4650	3600	2 x 10	2 x 8	22,8	4500	50
DFE34EL7ED	8,48	7,32	6200	4800	2 x 11	2 x 9	30,4	6000	72
DFE35EL7ED	10,3	9,04	7750	6000	2 x 13	2 x 10	38	7500	80
DFE36EL7ED	12,5	10,8	9300	7200	2 x 15	2 x 12	45,6	8550	99

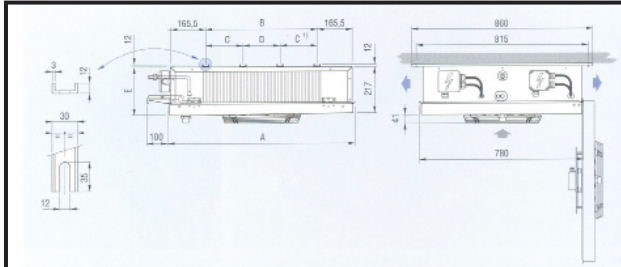
Type	Diameters [mm]		Connection [mm]		Drain connection [GAS]
	A	B	In	Out	
DFE31EL7ED	885	524	1/2" SAE	16	1"
DFE32EL7ED	1435	1074	1/2" SAE	22	1"
DFE33EL7ED	1985	1624	1/2" SAE	28	1"
DFE34EL7ED	2535	2174	1/2" SAE	35	1"
DFE35EL7ED	3085	2724	5/8" SAE	35	1"
DFE36EL7ED	3635	3274	5/8" SAE	35	1"



**Evaporators  
LUVATA (ECO)**
**DFE  
EH3 ED**

Fin spacing 3,5 mm for medium temperatures ( $\geq +2\text{ °C}$ ).  
ED - defrost heater

Dual speed ventilators  
H - fast speed of ventilators  
L - low speed of ventilators



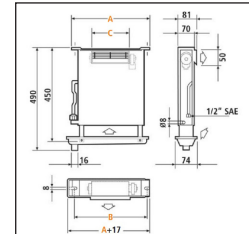
Code	Type	Fin spacing [mm]	Ventilator		
			No. x Ø	Input [A]	
				H	L
47-32DFE31EH3	DFE31EH3	3,5	1 x 315	0,5	0,43
47-32DFE32EH3	DFE32EH3	3,5	2 x 315	1	0,86
47-32DFE33EH3	DFE33EH3	3,5	3 x 315	1,5	1,29
47-32DFE34EH3	DFE34EH3	3,5	4 x 315	2	1,72
47-32DFE35EH3	DFE35EH3	3,5	5 x 315	2,5	2,15
47-32DFE36EH3	DFE36EH3	3,5	6 x 315	3	2,58
47-32DFE31EH3ED	DFE31EH3ED	3,5	1 x 315	0,5	0,43
47-32DFE32EH3ED	DFE32EH3ED	3,5	2 x 315	1	0,86
47-32DFE33EH3ED	DFE33EH3ED	3,5	3 x 315	1,5	1,29
47-32DFE34EH3ED	DFE34EH3ED	3,5	4 x 315	2	1,72
47-32DFE35EH3ED	DFE35EH3ED	3,5	5 x 315	2,5	2,15
47-32DFE36EH3ED	DFE36EH3ED	3,5	6 x 315	3	2,58

Type	Capacity [kW] $\Delta T = 8\text{ [°C]}$		Air flow [m³/h]		Air throw [m]		Surface [m²]	Defrost [W]	Weight [kg]
	H	L	H	L	H	L			
DFE31EH3	2,97	2,47	1450	1100	2 x 7	2 x 5	14,3	-	24,0
DFE32EH3	5,52	4,78	2900	2200	2 x 8	2 x 6	28,6	-	40,0
DFE33EH3	8,47	7,13	4350	3300	2 x 9	2 x 7	42,9	-	52,0
DFE34EH3	11,28	9,72	5800	4400	2 x 10	2 x 8	57,2	-	74,0
DFE35EH3	14,30	12,10	7250	5500	2 x 12	2 x 9	71,5	-	83,0
DFE36EH3	16,10	13,90	8700	6600	2 x 14	2 x 11	85,8	-	103,0
DFE31EH3ED	2,97	2,47	1450	1100	2 x 7	2 x 5	14,3	1500	24,0
DFE32EH3ED	5,52	4,78	2900	2200	2 x 8	2 x 6	28,6	3000	40,0
DFE33EH3ED	8,47	7,13	4350	3300	2 x 9	2 x 7	42,9	4500	52,0
DFE34EH3ED	11,28	9,72	5800	4400	2 x 10	2 x 8	57,2	6000	74,0
DFE35EH3ED	14,30	12,10	7250	5500	2 x 12	2 x 9	71,5	7500	83,0
DFE36EH3ED	16,10	13,90	8700	6600	2 x 14	2 x 11	85,8	8550	103,0

Type	Diameters		Connection [mm]		Drain connection
	A	B	In	Out	
47-32DFE31EH3	885	524	1/2" SAE	16	1"
47-32DFE32EH3	1435	1074	1/2" SAE	22	1"
47-32DFE33EH3	1985	1624	1/2" SAE	28	1"
47-32DFE34EH3	2535	2174	1/2" SAE	35	1"
47-32DFE35EH3	3085	2724	5/8" SAE	35	1"
47-32DFE36EH3	3635	3274	5/8" SAE	35	1"
DFE31EH3ED	885	524	1/2" SAE	16	1"
DFE32EH3ED	1435	1074	1/2" SAE	22	1"
DFE33EH3ED	1985	1624	1/2" SAE	28	1"
DFE34EH3ED	2535	2174	1/2" SAE	35	1"
DFE35EH3ED	3085	2724	5/8" SAE	35	1"
DFE36EH3ED	3635	3274	5/8" SAE	35	1"

## Evaporators LU-VE

HF



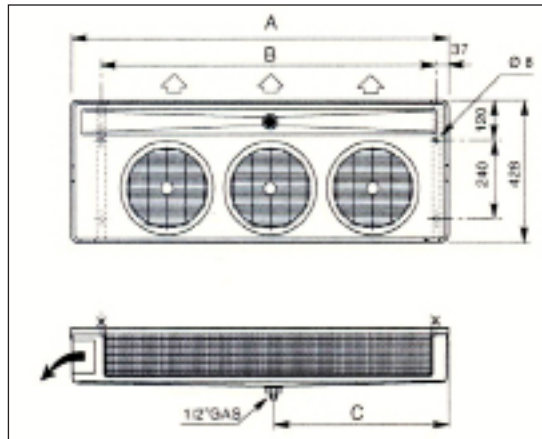
Fin spacing 4,3 mm, for medium temperatures.

Code	Type	Capacity [W] $\Delta T = 10$ [K]	Air flow [m <sup>3</sup> /h]	Input vent. [W] / pc	Defrost [W]	Diameters [mm]			Weight [kg]
						A	B	C	
47-32HF57S	HF57S	250	60	15 / 1	330	370	340	120	3,3
47-32HF72S	HF72S	370	90	16 / 1	330	370	340	180	3,4
47-32HF106S	HF106S	420	90	16 / 1	450	490	460	180	4,2
47-32HF58D	HF58D	260	65	26 / 2	330	370	340	60	3,8
47-32HF109D	HF109D	430	100	30 / 2	450	490	460	120	4,8

Code	Description
47-32HF58D-VENT	ventilator tangential EBM of evaporator LU-VE HF58D, QLK45/006A17
47-32HF72S-VENT	ventilator tangential EBM of evaporator LU-VE HF72S, QLK45/0015A85
47-32HF109D-VENT	ventilator tangential EBM of evaporator LU-VE HF109D, QLK/001LA29
47-32HF-MISKA-57-72	drain tray LU-VE HF57/72
47-32HF-MISKA-106-109	drain tray LU-VE HF106/109

**Evaporators  
LU-VE**
**SHS**

Fin spacing - 5 mm.



Code	Type	Capacity [W] $\Delta T 10$ [K]	Air flow [m <sup>3</sup> /h]	Input vent. [W] / pc	Defrost [W]	Diameters [mm]			Weight [kg]
						A	B	C	
47-32SHS08E	SHS08E	700	440	35 / 1	335	493	374	224	
47-32SHS12E	SHS12E	780	440	35 / 1	335	493	374	224	5,2
47-32SHS13E	SHS13E	950	500	35 / 1	460	647	524	299	6,1
47-32SHS15E	SHS15E	1040	500	35 / 1	460	647	524	299	6,2
47-32SHS18E	SHS18E	1430	850	70 / 2	585	803	674	374	8,6
47-32SHS22E	SHS22E	1570	850	70 / 2	585	803	674	374	8,7
47-32SHS26E	SHS26E	2050	980	70 / 2	825	1126	974	524	10,8
47-32SHS32E	SHS32E	2290	1250	105 / 3	825	1126	974	524	12,3
47-32SHS32E-E	SHS32E-E	2290	1250	105 / 3	825	1126	974	524	12,3
47-32SHS08	SHS08	700	440	35 / 1	-	493	374	224	
47-32SHS12	SHS12	780	440	35 / 1	-	493	374	224	5,2
47-32SHS13	SHS13	950	500	35 / 1	-	647	524	299	6,1
47-32SHS15	SHS15	1040	500	35 / 1	-	647	524	299	6,2
47-32SHS18	SHS18	1430	850	70 / 2	-	803	674	374	8,6
47-32SHS22	SHS22	1570	850	70 / 2	-	803	674	374	8,7
47-32SHS26	SHS26	2050	980	70 / 2	-	1126	974	524	10,8
47-32SHS32	SHS32	2290	1250	105 / 3	-	1126	974	524	12,3

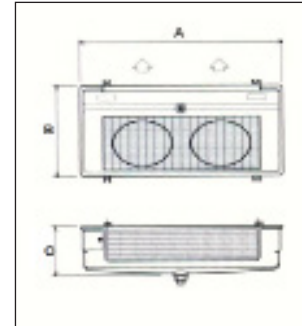
\* epoxi treatment

Code	Description
47-32SHS-TELESO-8-12	defrost heater LU-VE SHS 8/12, RCE021, 335 W
47-32SHS-TELESO-13-15	defrost heater LU-VE SHS 13/15, RCE022, 460 W
47-32SHS-TELESO-18-22	defrost heater LU-VE SHS 18/22, RCE023, 585 W
47-32SHS-TELESO-26-32	defrost heater LU-VE SHS 26/32, RCE024, 825 W

**Evaporators  
LU-VE**

SHA

Fin spacing SHA32- 3,1 mm  
 Fin spacing SHA50 - 4,8 mm  
 Fin spacing SHA80 - 7,7 mm

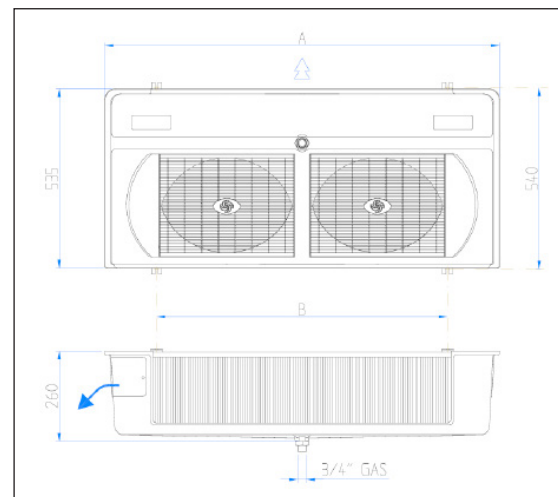


Code	Type	Capacity [W] $\Delta T 10$ [K]	Air flow [m <sup>3</sup> /h]	Input vent. [W] / pc	Defrost [W]	Diameters		Weight [kg]
						A	B	
47-32SHA21E50	SHA21E50	1450	600	105 / 1	500	605	293	9,0
47-32SHA30E32	SHA30E32	1650	550	105 / 1	500	605	293	9,5
47-32SHA27E50	SHA27E50	1800	720	105 / 1	650	730	418	10,5
47-32SHA40E32	SHA40E32	2050	650	105 / 1	650	730	418	11,5
47-32SHA35E80	SHA35E80	2730	1500	210 / 2	1200	1180	868	18,0
47-32SHA41E50	SHA41E50	2950	1200	210 / 2	900	930	618	15,5
47-32SHA60E32	SHA60E32	3350	1100	210 / 2	900	930	618	16,5
47-32SHA53E50	SHA53E50	3600	1440	210 / 2	1200	1180	868	19,0
47-32SHA52E80	SHA52E80	4260	2250	315 / 3	1750	1630	1318	26,0
47-32SHA80E32	SHA80E32	4150	1300	210 / 2	1200	1180	868	20,5
47-32SHA79E50	SHA79E50	5550	2160	315 / 3	1750	1630	1318	27,5
47-32SHA120E32	SHA120E32	6300	1950	315 / 2	1750	1630	1318	29,5
47-32SHA106E50	SHA106E50	7350	2880	420 / 4	2300	2080	1768	36,0
47-32SHA160E32	SHA160E32	8250	2600	420 / 4	2300	2080	1768	39,0

**Evaporators  
LU-VE**

FHA

Fin spacing FHA32- 3,0 mm  
 Fin spacing FHA50 - 4,5 mm  
 Fin spacing FHA80 - 7,0 mm



Code	Type	Capacity [W] $\Delta T$ 10 [K]	Air flow [m <sup>3</sup> /h]	Input vent. [W] / pc	Defrost [W]	Diameters [mm]		Weight [kg]
						A	B	
<b>fin spacing 3,0 mm</b>								
47-32FHA30E32	FHA30E32	1650	550	1 x 105	500	605	293	9,5
47-32FHA40E32	FHA40E32	2050	650	1 x 105	650	730	418	11,5
47-32FHA60E32	FHA60E32	3350	1100	2 x 210	900	930	618	16,5
47-32FHA80E32	FHA80E32	4150	1300	2 x 210	1200	1180	868	20,5
47-32FHA120E32	FHA120E32	6300	1950	3 x 315	1750	1630	1318	29,5
47-32FHA-E160E32	FHAE160E32	8250	2600	4 x 340	2300	2080	1768	39,5
<b>fin spacing 4,5 mm</b>								
47-32FHA21E50	FHA21E50	1450	600	1 x 105	500	605	293	9,0
47-32FHA27E50	FHA27E50	1800	720	1 x 105	650	730	418	10,5
47-32FHA41E50	FHA41E50	2850	1200	2 x 210	900	930	618	15,5
47-32FHA53E50	FHA53E50	3600	1440	2 x 210	1200	1180	868	19,0
47-32FHA79E50	FHA79E50	5500	2160	3 x 315	1750	1630	1318	27,5
47-32FHA106E50	FHA106E50	7350	2880	4 x 340	2300	2080	1768	36,0
<b>fin spacing 7,0 mm</b>								
47-32FHA14E803	FHA14E80	1130	670	1 x 105	500	605	293	8,5
47-32FHA17E80	FHA17E80	1370	750	1 x 105	650	730	418	10,0
47-32FHA28E80	FHA28E80	2270	1340	2 x 210	900	930	618	15,0
47-32FHA35E80	FHA35E80	2730	1500	2 x 210	1200	1180	868	18,0
47-32FHA52E80	FHA52E80	4260	2250	3 x 315	1750	1630	1318	26,0
47-32FHA70E80	FHA70E80	5730	3000	4 x 340	2300	2080	1768	34,0

**Evaporators  
LU-VE**
**FHC**

Code	Capacity [W] R404A $t_c = 0^\circ\text{C}, \Delta T$ 8 [K]	Capacity [W] R404A $t_c = +2,5^\circ\text{C}, \Delta T$ 10 [K]	Air flow [m <sup>3</sup> /h]	Air throw [m]	Surface [m <sup>2</sup> ]	Weight [kg]
47-32F27HC38E6	2450	3300	1900	13	11,2	18
47-32F27HC55E6	3050	4150	1900	13	11,2	20
47-32F27HC85E6	4650	6300	2850	14,5	16,8	27
47-32F45HC1400E10	5770	7800	5800	28	16,6	75
47-32F35HC117E6	6800	9200	5300	23,5	20,2	42
47-32F35HC174E6	8850	12000	5000	22,5	30,2	49
47-32F35HC218E6	11850	16100	7700	26,5	37,9	62
47-32F35HC261E6	13250	18000	7500	25,5	24	67
47-32F45HC1206E6	16800	22700	10800	31	52,3	128
47-32F45HC1208E6	19910	26900	10200	30	69,6	138
47-32F45HC1212E6	25160	34000	16200	35	78,3	176
47-32F45HC1214E6	29450	39800	15300	34	104,4	191

Type	Diameters [mm]				Ventilators No. + ø [mm]	Connection [mm]		Drain connection	Defrost [W]
	length	fixing	width	height		In	Out		
F27HC 38E6	1048	782	330	415	2 x 275	12	22	3/4	2160
F27HC 55E6	1048	782	330	415	2 x 275	12	28	3/4	2160
F27HC 85E6	1418	1152	330	415	3 x 275	12	28	3/4	3080
F45HC1400E10	1285		655	655	1 x 450	16	35	1.3/4"	3390
F35HC 117E6	1420	1152	416	487	2 x 350	12	28	3/4	3680
F35HC 174E6	1420	1152	416	487	2 x 350	16	28	3/4	5280
F35HC 218E6	1975	1707	416	487	3 x 350	16	35	3/4	7620
F35HC 261E6	1975	1707	416	487	3 x 350	16	35	3/4	7620
F45HC 1206E6	2085	1630	655	655	2 x 450	16	42	1.1/4"	6270
F45HC 1208E6	2085	1630	655	655	2 x 450	16	42	1.1/4"	9400
F45HC 1212E6	2885	2430	655	655	3 x 450	28	54	1.1/4"	9150
F45HC 1214E6	2885	2430	655	655	3 x 450	28	54	1.1/4"	13720

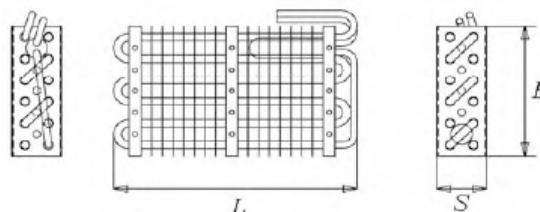
### Static evaporator SBT / 6,8,12

Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-SBT640-75	SBT 640/75	6	12	11	0,82
47-32KT-RV-SBT650-75	SBT 650/75	6	12	11	1,09
47-32KT-RV-SBT6150-75	SBT 6150/75	6	12	11	3,74
47-32KT-RV-SBT6370-75	SBT 6370/75	6	12	11	9,55

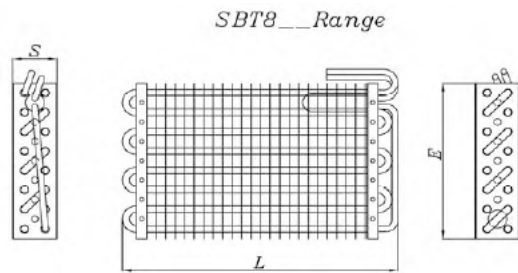
Type	Capacity [W] R404A ΔT = 10 [K]	Diameters [mm]		
		length	width	height
SBT 640/75	69	400	75	210
SBT 650/75	90	500	75	210
SBT 6150/75	306	1500	75	210
SBT 6370/75	781	3700	75	210

SBT6\_\_Range



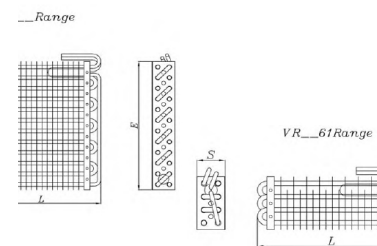
Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-SBT840-75	SBT840/75	8	12	11	1,10
47-32KT-RV-SBT850-75	SBT850/75	8	12	11	1,45
47-32KT-RV-SBT870-75	SBT870/75	8	12	11	2,16
47-32KT-RV-SBT890-75	SBT890/75	8	12	11	2,86
47-32KT-RV-SBT8110-75	SBT8110/75	8	12	11	3,57
47-32KT-RV-SBT8130-75	SBT8130/75	8	12	11	4,28
47-32KT-RV-SBT8150-75	SBT8150/75	8	12	11	4,49

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
SBT840/75	90	400	75	210
SBT850/75	121	500	75	210
SBT870/75	178	700	75	210
SBT890/75	236	900	75	210
SBT8110/75	293	1100	75	210
SBT8130/75	351	1300	75	210
SBT8150/75	408	1500	75	210



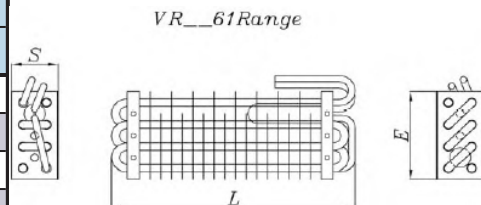
Code	Type	No. tubes	$\varnothing$ tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-SBT1240-75	SBT 1240/75	12	12	11	1,64

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
SBT 1240/75	134	400	75	420


**Static evaporator  
VR / 6,8,10**
**Rivacold**

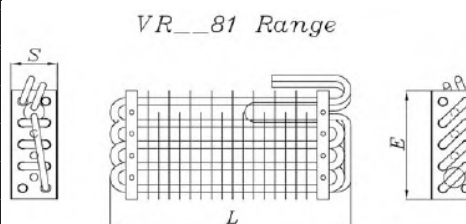
Code	Type	No. tubes	$\varnothing$ tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-VR4061	VR4061	6	12	9/18	0,69
47-32KT-RV-VR5061	VR5061	6	12	9/18	0,90
47-32KT-RV-VR7061	VR7061	6	12	9/18	1,34
47-32KT-RV-VR9061	VR9061	6	12	9/18	1,78
47-32KT-RV-VR13061	VR13061	6	12	9/18	2,67

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
VR4061	57	400	75	140
VR5061	76	500	75	140
VR7061	112	700	75	140
VR9061	149	900	75	140
VR13061	222	1300	75	140



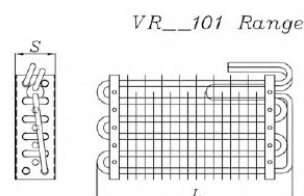
Code	Type	No. tubes	$\varnothing$ tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-VR7081	VR7081	8	12	9/18	1,69
47-32KT-RV-VR9081	VR9081	8	12	9/18	2,25
47-32KT-RV-VR11081	VR11081	8	12	9/18	2,80
47-32KT-RV-VR13081	VR13081	8	12	9/18	3,35
47-32KT-RV-VR15081	VR15081	8	12	9/18	3,91
47-32KT-RV-VR17081	VR17081	8	12	9/18	4,46

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
VR7081	144	700	75	175
VR9081	192	900	75	175
VR11081	238	1100	75	175
VR13081	286	1300	75	175
VR15081	334	1500	75	175
VR17081	380	1700	75	175



Code	Type	No. tubes	$\varnothing$ tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-VR40101	VR40101	10	12	9/18	1,04
47-32KT-RV-VR90101	VR90101	10	12	9/18	2,71
47-32KT-RV-VR130101	VR130101	10	12	9/18	4,04

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
VR40101	79	400	75	210
VR90101	207	900	75	210
VR130101	308	1300	75	210

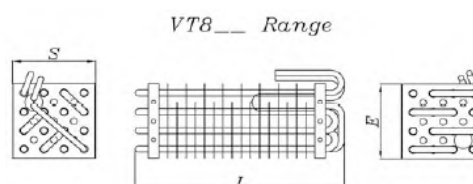


### Static evaporator VT / 8

Rivacold

Code	Type	No. tubes	$\varnothing$ tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-VT850	VT850	8	12	9/18	1,70
47-32KT-RV-VT870	VT870	8	12	9/18	2,55
47-32KT-RV-VT880	VT880	8	12	9/18	2,98
47-32KT-RV-VT890	VT890	8	12	9/18	3,40
47-32KT-RV-VT8110	VT8110	8	12	9/18	4,26
47-32KT-RV-VT8130	VT8130	8	12	9/18	5,11
47-32KT-RV-VT8150	VT8150	8	12	9/18	5,96
47-32KT-RV-VT8290	VT8290	8	12	9/18	12,34

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
VT850	130	500	145	140
VT870	194	700	145	140
VT880	226	800	145	140
VT890	257	900	145	140
VT8110	321	1100	145	140
VT8130	385	1300	145	140
VT8150	449	1500	145	140
VT8290	926	2900	145	140



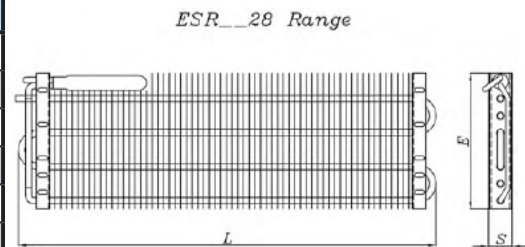


**Static evaporator  
ESR / 4**

Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-ESR5028	ESR5028	4	12	11	0,71
47-32KT-RV-ESR7028	ESR7028	4	12	11	1,06
47-32KT-RV-ESR9028	ESR9028	4	12	11	1,41
47-32KT-RV-ESR11028	ESR11028	4	12	11	1,77
47-32KT-RV-ESR13028	ESR13028	4	12	11	2,12
47-32KT-RV-ESR15028	ESR15028	4	12	11	2,48
47-32KT-RV-ESR17028	ESR17028	4	12	11	2,83
47-32KT-RV-ESR20028	ESR20028	4	12	11	3,36

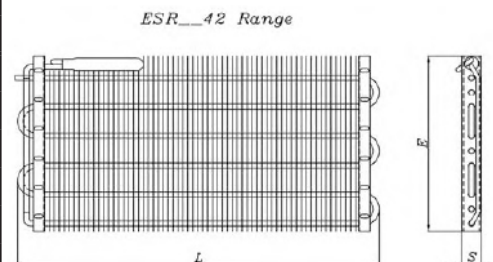
Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
ESR5028	60	500	40	280
ESR7028	89	700	40	280
ESR9028	118	900	40	280
ESR11028	147	1100	40	280
ESR13028	175	1300	40	280
ESR15028	204	1500	40	280
ESR17028	233	1700	40	280
ESR20028	276	2000	40	280


**Static evaporator  
ESR / 6**

Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-ESR5042	ESR5042	6	12	11	1,06
47-32KT-RV-ESR7042	ESR7042	6	12	11	1,59
47-32KT-RV-ESR9042	ESR9042	6	12	11	2,12
47-32KT-RV-ESR11042	ESR11042	6	12	11	2,65
47-32KT-RV-ESR15042	ESR15042	6	12	11	3,71
47-32KT-RV-ESR17042	ESR17042	6	12	11	4,24
47-32KT-RV-ESR20042	ESR20042	6	12	11	5,04

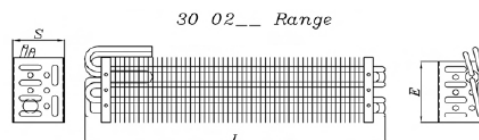
Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
ESR5042	90	500	40	420
ESR7042	134	700	40	420
ESR9042	177	900	40	420
ESR11042	220	1100	40	420
ESR15042	306	1500	40	420
ESR17042	350	1700	40	420
ESR20042	414	2000	40	420



**Static evaporator**  
**30 02 / 12**

Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-300202	30 02 02	12	12	9	3,50
47-32KT-RV-300207	30 02 07	12	12	9	5,55



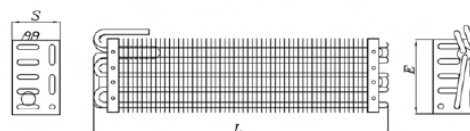
Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
30 02 02	283	1100	110	140
30 02 07	449	1700	110	140

**Static evaporator**  
**47-32 94 / 24**

Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-329410	47-3294 10	24	12	8	12,05

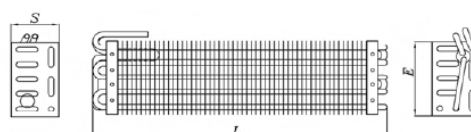
Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
47-3294 10	1760	1700	110	280


**Static evaporator**  
**33 31 / 02**

Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-333102	33 31 02	20	12	8	2,21

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
33 31 02	266	400	245	110

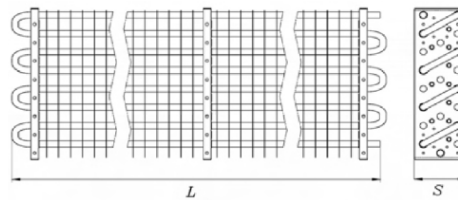


**Static evaporator  
REC / 8**

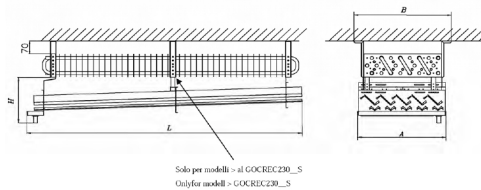
Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-REC05040	REC05040	8	16	13	2,60
47-32KT-RV-REC09040	REC09040	8	16	13	5,42

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
REC05040	208,0	500	128	396
REC09040	433,6	900	128	396


**Drain train  
GOCREC / 8**

Rivacold



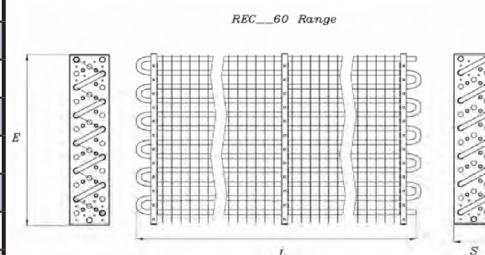
Code	Evaporator type	Diameters [mm]			
		A	B	L	H
47-32KT-GOCREC05040S	REC05040	450	495	600	250
47-32KT-GOCREC09040S	REC09040	450	495	1000	250

**Static evaporator  
REC / 12**

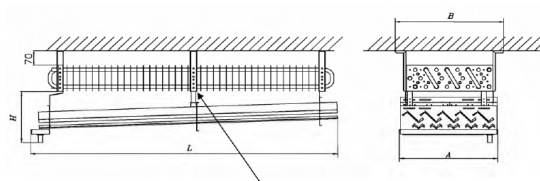
Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-REC05060	REC05060	12	16	13	3,90
47-32KT-RV-REC09060	REC09060	12	16	13	8,13
47-32KT-RV-REC11060	REC11060	12	16	13	10,24
47-32KT-RV-REC13060	REC13060	12	16	13	12,35
47-32KT-RV-REC15060	REC15060	12	16	13	14,46
47-32KT-RV-REC17060	REC17060	12	16	13	16,57
47-32KT-RV-REC19060	REC19060	12	16	13	18,68
47-32KT-RV-REC21060	REC21060	12	16	13	20,79
47-32KT-RV-REC23060	REC23060	12	16	13	22,90
47-32KT-RV-REC25060	REC25060	12	16	13	25,01

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
REC05060	312,0	500	128	588
REC09060	650,4	900	128	588
REC11060	819,2	1100	128	588
REC13060	988,0	1300	128	588
REC15060	1156,8	1500	128	588
REC17060	1325,6	1700	128	588
REC19060	1494,4	1900	128	588
REC21060	1663,2	2100	128	588
REC23060	1832,0	2300	128	588
REC25060	2000,8	2500	128	588


**Drain train  
GOCREC / 12**

Rivacold



Solo per modelli > al GOCREC230\_S  
Only for models > GOCREC230\_S

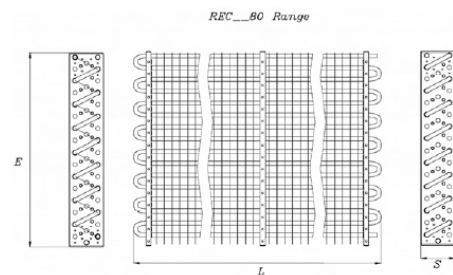
Code	Evaporator type	Diameters [mm]			
		A	B	L	H
47-32KT-GOCREC09060S	REC09060	640	685	1000	250
47-32KT-GOCREC11060S	REC11060	640	685	1200	250
47-32KT-GOCREC13060S	REC13060	640	685	1400	250
47-32KT-GOCREC15060S	REC15060	640	685	1600	250
47-32KT-GOCREC17060S	REC17060	640	685	1800	250
47-32KT-GOCREC19060S	REC19060	640	685	2000	250
47-32KT-GOCREC21060S	REC21060	640	685	2200	250
47-32KT-GOCREC23060S	REC23060	640	685	2400	250
47-32KT-GOCREC25060S	REC25060	640	685	2600	250

**Static evaporator  
REC / 16**

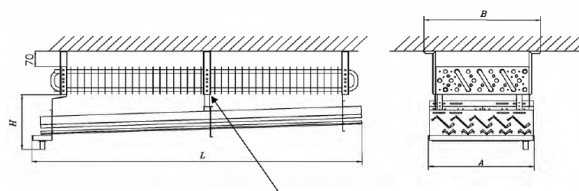
Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-REC05080	REC05080	16	16	13	5,21
47-32KT-RV-REC13080	REC13080	16	16	13	16,46
47-32KT-RV-REC15080	REC15080	16	16	13	19,28
47-32KT-RV-REC17080	REC17080	16	16	13	22,09
47-32KT-RV-REC19080	REC19080	16	16	16	24,91
47-32KT-RV-REC21080	REC21080	16	16	13	27,72
47-32KT-RV-REC23080	REC23080	16	16	13	30,54
47-32KT-RV-REC25080	REC25080	16	16	13	33,35

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
REC05080	416,8	500	128	780
REC13080	1316,8	1300	128	780
REC15080	1542,4	1500	128	780
REC17080	1767,2	1700	128	780
REC21080	2217,6	2100	128	780
REC23080	2443,2	2300	128	780


**Drain train  
GOCREC / 16**

Rivacold



Solo per modelli > al GOCREC230\_S  
Only for models > GOCREC230\_S

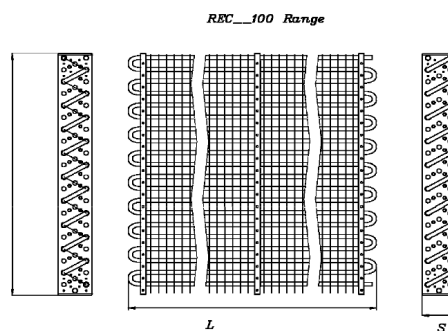
Code	Evaporator type	Diameters [mm]			
		A	B	L	H
47-32KT-GOCREC05080S	REC05080	830	880	600	250
47-32KT-GOCREC13080S	REC13080	830	880	1400	250
47-32KT-GOCREC15080S	REC15080	830	880	1600	250
47-32KT-GOCREC17080S	REC17080	830	880	1800	250
47-32KT-GOCREC19080S	REC19080	830	880	2000	250
47-32KT-GOCREC21080S	REC21080	830	880	2200	250
47-32KT-GOCREC23080S	REC23080	830	880	2400	250
47-32KT-GOCREC25080S	REC25080	830	880	2600	250

**Static evaporator  
REC / 20**

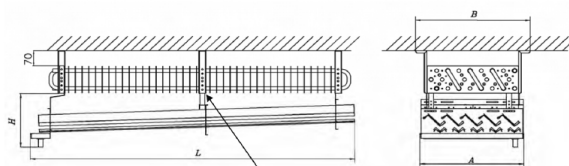
Rivacold

Code	Type	No. tubes	ø tubes [mm]	Fin spacing [mm]	Surface [m <sup>2</sup> ]
47-32KT-RV-REC070100	REC070100	20	16	13	10,03
47-32KT-RV-REC130100	REC130100	20	16	13	20,58
47-32KT-RV-REC150100	REC150100	20	16	13	24,10
47-32KT-RV-REC170100	REC170100	20	16	13	27,62
47-32KT-RV-REC190100	REC190100	20	16	13	31,13
47-32KT-RV-REC210100	REC210100	20	16	13	34,65
47-32KT-RV-REC230100	REC230100	20	16	13	38,17
47-32KT-RV-REC250100	REC250100	20	16	13	41,69

Type	Capacity [W] R404A $\Delta T = 10$ [K]	Diameters [mm]		
		length	width	height
REC070100	802,4	700	128	972
REC130100	1646,4	1300	128	972
REC150100	1928	1500	128	972
REC170100	2209,6	1700	128	972
REC190100	2490,4	1900	128	972
REC210100	2772	2100	128	972
REC230100	3053,6	2300	128	972
REC250100	3335,2	2500	128	972


**Drain train  
GOCREC / 20**

Rivacold

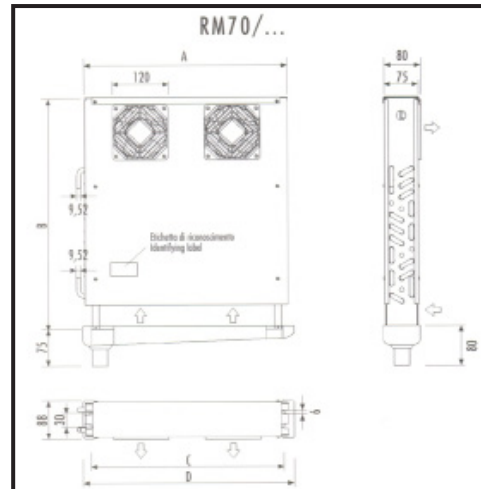


Solo per modelli - al GOCREC230\_S  
Only for models - GOCREC230\_S

Code	Evaporator type	Diameters [mm]			
		A	B	L	H
47-32KT-GOCREC070100S	REC07040	1025	1070	800	250
47-32KT-GOCREC130100S	REC13040	1025	1070	1400	250
47-32KT-GOCREC150100S	REC15040	1025	1070	1600	250
47-32KT-GOCREC170100S	REC17040	1025	1070	1800	250
47-32KT-GOCREC190100S	REC19040	1025	1070	2000	250
47-32KT-GOCREC210100S	REC21040	1025	1070	2200	250
47-32KT-GOCREC230100S	REC23040	1025	1070	2400	250
47-32KT-GOCREC250100S	REC25040	1025	1070	2600	250

**Evaporators RM  
+ accessories**
**Rivacold**

Code	Model
47-32RM70347C	RM70/347
47-32RM70347	RM70/347
47-32RM70348C	RM70/348
47-32RM70348	RM70/348
47-32RM70349C	RM70/349
47-32RM70349	RM70/349
47-32RM70350C	RM70/350
47-32RM70350	RM70/350
47-32RM70420C	RM70/420
47-32RM70420	RM70/420



Model	Fin spacing [mm]	Capacity [W] $\Delta T=10$ R404A	Air flow [m <sup>3</sup> /h]	Air throw [m]	Connection [mm]		Diameters [mm]				Weight [kg]
					In	Out	A	B	C	D	
RM70/347	4,5	406	127,5	1,78	9,52	9,52	390	330	368	402	3,0
RM70/348	4,5	458	122,5	1,67	9,52	9,52	390	355	368	402	3,3
RM70/349	4,5	546	115	1,5	9,52	9,52	390	405	368	402	3,8
RM70/350	4,5	607	110	1,39	9,52	9,52	390	455	368	402	4,4
RM70/420	4,5	657	100	1,23	9,52	9,52	440	505	418	456	5,4

Code	Description
47-32RM70-M	drain tray for Rivacold RM70/347 - 350
47-32RM70-M2	drain tray for Rivacold RM70/420
47-32RM70-H	heater for Rivacold RM70/347 - 350
47-32RM70-H2	heater for Rivacold RM70/420


**Evaporators RS**
**Rivacold**

Code	Model
47-32RS4380	RS4380

Model	Fin spacing [mm]	Capacity [W] $\Delta T=8$ R404A	Air flow [m <sup>3</sup> /h]	Air throw [m]	Connect. [mm]		Diameter [mm]		Weight [kg]
					suction	discharge	A	B	
RS4380	3,5	1870		2,5	1/2"	16	1379	483	16,3

## Evaporators

## Goedhart



Fin spacing 4 [mm]

Code	Type	Capacity [kW] R404A DT1C=8[K] (-8/0[°C])	Surface [m <sup>2</sup> ]	Air flow [m <sup>3</sup> /h]	No. ventilators	Diameter of ventilator [mm]	Noise level [dBA/5m]
47-32CCD41304E	CCD41304E	3,50	15	1 393	1	300	43,7
47-32CCD32304E	CCD32304E	6,10	22	2 977	2	300	46,4
47-32CCD42304E	CCD42304E	7,00	29	2 784	2	300	46,4
47-32CCD32404E	CCD32404E	10,80	33	5 922	2	400	56,2
47-32CCD42404E	CCD42404E	12,40	44	5 557	2	400	56,2
47-32CCD33404E	CCD33404E	15,50	49	8 881	3	400	57,7
47-32CCD42454E	CCD42454E	21,40	77	10 778	2	450	59,9
47-32CCD43454E	CCD43454E	34,90	116	16 163	3	450	61,3

Type	Connection [mm]		Drain connection	Diameters [mm]						Weight [kg]
	Discharge	Suction		L	D	H	E	F1	F2	
CCD41304E	12	22	3/4" G	953	429	446	630	162	162	32
CCD32304E	12	22	3/4" nebo 5/4" G	1553	429	446	1230	162	162	47
CCD42304E	12	22	3/4" nebo 5/4" G	1553	429	446	1230	162	162	52
CCD32404E	12	22	3/4" nebo 5/4" G	1853	529	522	1530	162	162	70
CCD42404E	12	28	3/4" nebo 5/4" G	1853	529	522	1530	162	162	78
CCD33404E	12	28	3/4" nebo 5/4" G	2603	529	522	2280	162	162	102
CCD42454E	16	35	3/4" nebo 5/4" G	2413	609	674	2030	192	192	134
CCD43454E	16	42	3/4" nebo 5/4" G	3413	609	674	3030	192	192	195

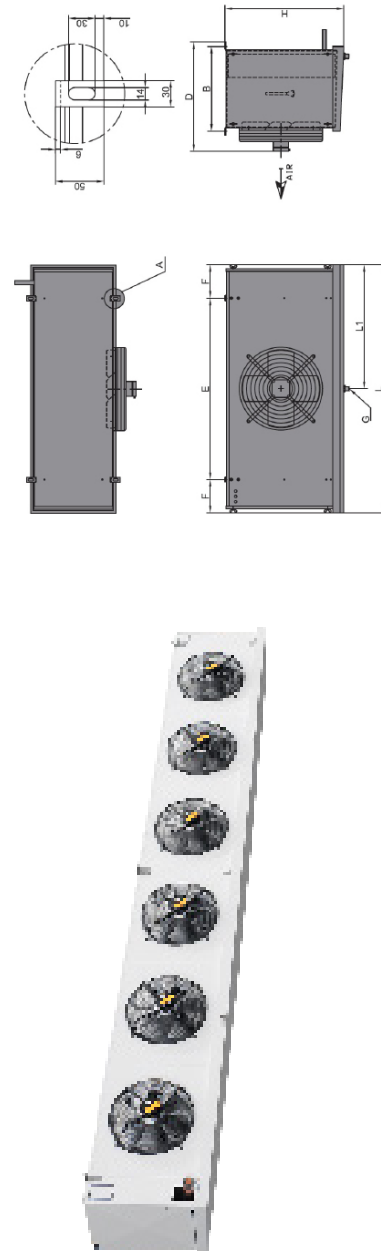


**Evaporators**
**Goedhart**


Fin spacing 7 [mm]

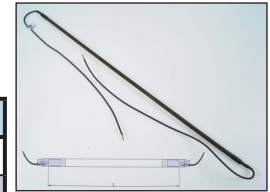
Code	Type	Capacity [kW] R404A DT1C=8[K] (-8/0[°C])	Surface [m <sup>2</sup> ]	Air flow [m <sup>3</sup> /h]	No. ventilators	Diameter of ventilator [mm]	Noise level [dBA/5m]
47-32CCD32307E	CCD32307E	4,30	13	3 277	2	300	46,4
47-32CCD42307E	CCD42307E	5,30	17	3 157	2	300	46,4
47-32CCD61407E	CCD61407E	5,80	20	2 920	1	400	53,5
47-32CCD62307E	CCD62307E	6,70	26	2 930	2	300	46,4
47-32CCD43307E	CCD43307E	7,90	26	4 736	3	300	48
47-32CCD42407E	CCD42407E	9,20	26	6 241	2	400	56,2
47-32CCD61457E	CCD61457E	10,80	35	5 539	1	450	57,2
47-32CCD62407E	CCD62407E	11,80	39	5 834	2	400	56,2
47-32CCD43407E	CCD43407E	13,80	39	9 358	3	400	57,7
47-32CCD42457E	CCD42457E	16,30	46	11 513	2	450	59,9
47-32CCD63407E	CCD63407E	17,30	59	8 749	3	400	57,7
47-32CCD62457E	CCD62457E	21,70	70	11 075	2	450	59,9
47-32CCD43457E	CCD43457E	25,00	70	17 267	3	450	61,3
47-32CCD62507E	CCD62507E	26,20	78	14 003	2	500	61,8
47-32CCD63457E	CCD63457E	31,80	104	16 610	3	450	61,3
47-32CCD63507E	CCD63507E	38,00	117	21 001	3	500	63,2
47-32CCD83507E	CCD83507E	44,90	156	19 956	3	500	63,2
47-32CCD64507E	CCD64507E	51,90	156	27 998	4	500	64,1

Type	Connection [mm]		Drain connection	Diameters [mm]						Weight [kg]
	Discharge	Suction		L	D	H	E	F1	F2	
CCD32307E	12	22	1*3/4" G	1553	429	446	1230	162	162	47
CCD42307E	12	22	1*3/4" G	1553	429	446	1230	162	162	46
CCD61407E	12	22	1*3/4" G	1103	529	522	780	162	162	46
CCD62307E	12	22	1*3/4" G	1553	429	446	1230	162	162	53
CCD43307E	12	22	1*3/4" G	2153	429	446	1830	162	162	65
CCD42407E	12	22	1*3/4" G	1853	529	522	1530	162	162	69
CCD61457E	12	22	1*3/4" G	1413	609	674	1030	192	192	76
CCD62407E	16	28	1*3/4" G	1853	529	522	1530	162	162	78
CCD43407E	16	28	1*5/4" G	2603	529	522	2280	162	162	98
CCD42457E	16	28	1*3/4" G	2413	609	674	2030	192	192	118
CCD63407E	16	28	1*3/4" G	2603	529	522	2280	162	162	112
CCD62457E	16	35	1*3/4" G	2413	609	674	2030	192	192	136
CCD43457E	16	35	1*5/4" G	3413	609	674	3030	192	192	165
CCD62507E	16	35	1*5/4" G	2413	644	750	2030	192	192	152
CCD63457E	16	42	1*5/4" G	3413	609	674	3030	192	192	192
CCD63507E	16	42	1*5/4" G	3413	644	750	3030	192	192	214
CCD83507E	22	42	1*5/4" G	3413	644	750	3030	192	192	236
CCD64507E	28	64	2*3/4" G	4413	644	750	4030	192	192	282



## Heating elements for evaporators

Code	Description
47-327903-00	heating element 250 W, 230 V, d=8,5 mm, L=600 mm
47-327903-01	heating element 300 W, 230 V, d=8,5 mm, L=750 mm
47-327903-02	heating element 350 W, 230 V, d=8,5 mm, L=1000 mm
47-327903-03	heating element 400 W, 230 V, d=8,5 mm, L=1200 mm
47-327903-04	heating element 450 W, 230 V, d=8,5 mm, L=1400 mm
47-327903-05	heating element 500 W, 230 V, d=8,5 mm, L=1700 mm
47-327903-10	heating element 400 W, 230 V, 2xd=8,5 mm, L=500 mm
47-327903-11	heating element 660 W, 230 V, 2xd=8,5 mm, L=1000 mm
47-327903-12	heating element 660 W, 230 V, 2xd=8,5 mm, L=1100 mm



## Heating cables

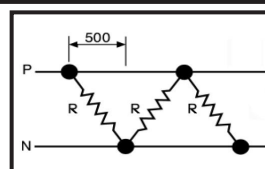
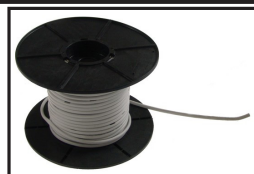
Drain heating cables.  
Silicon cable with power supply from one side.  
Voltage: 230 V.



Code	Type	Power [W]	Length of heating part [mm]	Total length [mm]
47-327900-2-1	CSC 2-1	40	1 000	2 000
47-327900-2-15	CSC 2-15	60	1 500	2 500
47-327900-2-2	CSC 2-2	80	2 000	3 000
47-327900-2-25	CSC 2-25	100	2 500	3 500
47-327900-2-3	CSC 2-3	120	3 000	4 000
47-327900-2-4	CSC 2-4	160	4 000	5 000
47-327900-2-5	CSC 2-5	200	5 000	6 000
47-327900-2-6	CSC 2-6	240	6 000	7 000

## Heating cables coil

Code	Description
47-327900-015-0	heating cable, sold in meters, 15 W/m, 230 V, 50 Hz, silicon
47-327900-015-1	heating cable, sold in meters, 15 W/m, 230 V, 50 Hz, silicon, metal braiding shielding
47-327900-020-0	heating cable, sold in meters, 20 W/m, 230 V, 50 Hz, silicon
47-327900-020-1	heating cable, sold in meters, 20 W/m, 230 V, 50 Hz, silicon, metal braiding shielding
47-327900-025-0	heating cable, sold in meters, 25 W/m, 230 V, 50 Hz, silicon
47-327900-025-1	heating cable, sold in meters, 25 W/m, 230 V, 50 Hz, silicon, metal braiding shielding
47-327900-030-0	heating cable, sold in meters, 30 W/m, 230 V, 50 Hz, silicon
47-327900-030-1	heating cable, sold in meters, 30 W/m, 230 V, 50 Hz, silicon, metal braiding shielding
47-327900-00	kit with ends for silicon cables



### Universal fan motors

Voltage: 220 - 240 V / 50 Hz, 1300 rpm, insulation class B, IP 42.  
Wires: 3 x 0,75 mm<sup>2</sup>, cable length 500 mm.  
Mounting: bracket / fan guard.



Code	Power output / input [W]	Current draw [A]	Recommended propeller [mm] / úhel [°]
47-322000-05	5 / 29	0,19	200 / 19°
47-322000-07	7 / 32	0,19	230 / 19°
47-322000-10	10 / 38	0,25	254 / 19°
47-322000-16	16 / 70	0,43	254 / 27°
47-322000-25	25 / 83	0,78	300 / 23°
47-322000-34	34 / 105	0,76	300 / 27°

Code	Description
47-32AB620639XT	fan motor 5 W, FMI - Penta
47-32A716501X	fan motor 12 W, Alexmar
47-32A716538X	fan motor 12 W, Alexmar
47-322000-9LA21001	fan motor 10-15 W, FMI, 82 H 20

### Universal fan motor

EBM PAPST

Voltage: 220 - 240 V / 50 Hz, 1300 rpm, insulation class B, IP 42.  
Cable length 450 mm. Mounting: bracket / fan guard.

Code	Type	Power output / input [W]	Cable length [mm]
47-322007-05	M4Q045-BD01-01/A74	5/19	450
47-322007-07	M4Q045-CA01-01/A38	7/31	450
47-322007-10	M4Q045-CA03-51/A85	10/36	450
47-322007-16	M4Q045-CF01-01/A28	16/60	450
47-322007-25	M4Q045-EA01-01/A08	25/90	450
47-322007-34	M4Q045-EF01-01/A34	34/110	450

### Universal fan motor

EBM PAPST

Voltage: 220 - 240 V / 50 Hz, 1300 rpm, insulation class B, IP 42.  
Cable length 450 mm. Mounting: fan guard (without screws for bracket mounting).

Code	Type	Power output / input [W]	Cable length [mm]
47-322010-05	M4Q045-BD01-01/A57	5 / 29	450
47-322010-07	M4Q045-CA01-01/A39	7 / 31	450
47-322010-10	M4Q045-CA03-51/A86	10 / 36	450
47-322010-16	M4Q045-CF01-01/A29	16 / 60	450
47-322010-25	M4Q045-EA01-01/A09	25 / 75	450
47-322010-101	M4Q045-CA03-51/A53	10 / 36	1150

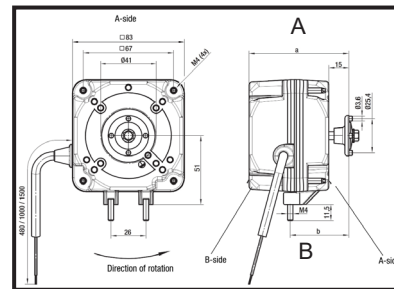
**Universal fan motor**
**EBM PAPST**

Voltage: 220 - 240 V / 50 Hz, 1300 rpm, insulation class B, IP 42.  
Cable length 1500 mm. Mounting: bracket / fan guard, fan ring, tapped holes 3 x M4 front and rear side .

Code	Type	Power output / input [W]	Cable length [mm]
47-322011-05	M4Q045-BD01-75	5 / 29	1500
47-322011-07	M4Q045-CA01-75	7 / 31	1500
47-322011-10	M4Q045-CA03-75	10 / 36	1500
47-322011-16	M4Q045-CF01-75	16 / 60	1500
47-322011-18	M4Q045-CF01-75	18 / 70	1500
47-322011-25	M4Q045-EA01-75	25 / 75	1500
47-322011-34	M4Q045-EF01-75	34 / 110	1500


**Energy saving fan motor**
**EBM PAPST**

Voltage: 220 - 240 V / 50 Hz, 1300 rpm.  
Protection: IP 52, horizontal position of shaft: IP42.  
Lifetime: 40.000 working hours.  
Ambient temperature range: -40°C to +50°C  
Motor protection: via electronics. Ball bearings.  
Cable length: 480 mm.  
Mounting: bracket / fan guard.



Code	Type	Diameter [mm]		Output capacity [W]
		A	B	
47-322007-IQ3608	iQ 3608	74	43,5	3
47-322007-IQ3612	iQ 3612	82	43,5	10
47-322007-IQ3620	iQ 3620	90	51,5	20

Type	Recommended propeller		Max. power input [W]	Air flow [m³/h]
	Diameter [mm]	Angle [°]		
iQ 3608	154	22	2,8	150
	154	28	3,2	190
	154	34	3,7	210
	172	22	5,3	240
	172	38	6,7	270
	172	34	7,5	300
	200	22	7,5	350
	200	28	7,5	300

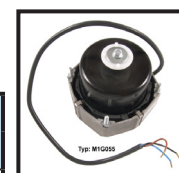
Type	Recommended propeller		Max. power input [W]	Air flow [m³/h]
	Diameter [mm]	Angle [°]		
iQ 3612	200	22	9,5	350
	200	28	11,0	400
	200	34	15,0	460
	230	22	23,0	520
	230	28	21,5	720
	230	34	23,0	750
	254	22	23,0	700
	254	28	23,0	950
iQ 3620	254	22	26,0	700
	254	28	30,0	950
	254	34	31,0	1000
	300	22	32,0	1400

### Energy saving fan motors

EBM PAPST  
Ziehl Abegg

Mounting: fan guard (without screws for bracket mounting).

Code	Type	Diameter [mm]		Output capacity [W]
		A	B	
47-322010-IQ3612	iQ 3612	82	43,5	10,0
47-322010-M1G055	M1G055	93	87,0	5,8
47-322008-ECQ	MI060-4QN.05.N	82		34,0



### Energy saving fan motors

Ziehl Abegg

Voltage: 220 - 240 V / 50 Hz. Insulation class IP 55.  
Lifetime: 40.000 working hours. Ambient temperatures: -30°C to +40°C.  
Motor protection. Low noise and vibrations. Cable length: 1500 mm.  
Mounting: bracket / fan guard / fan ring.

Code	Type	Voltage [V / Hz]	Current [A]	Rpm	Output capacity [W]
47-322008-09	MI060-4QN.05.N, 141871	230 / 50	0,10	1250	9
47-322008-12	MI060-4QN.05.N, 141872	230 / 50	0,20	1300	12
47-322008-16	MI060-4QN.05.N, 141873	230 / 50	0,25	1300	16



### Brackets

Code	Height [H] / Width [B]
47-322200-52	52 mm / 25 mm
47-322200-71	71 mm / 25 mm
47-322200-83	83 mm / 25 mm
47-322200-110	110 mm / 40 mm

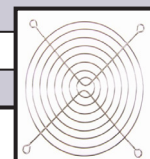


### Fan circle

Code	Diameters [mm]				Diameter of propeller [mm]
	A	B	C	D	
47-322300-154	200	190	162	46,5	154
47-322300-172	222	208	180	46,5	172
47-322300-200	246	236	208	47,0	200
47-322300-200-64	246	236	208	46,9	200
47-322300-230	276	266	238	51,5	230
47-322300-254	300	290	262	51,5	254
47-322300-300	356	344	308	55,0	300

### Fan guard

Code	Description
47-322301-154	fan guard with hole, propeller diameter 150 mm, height = 17 mm
47-322301-172-11	fan guard with hole, propeller diameter 172 mm, height = 11 mm
47-322301-172-17	fan guard with hole, propeller diameter 172 mm, height = 17 mm
47-322301-172-26	fan guard with hole, propeller diameter 172 mm, height = 26 mm
47-322301-200	fan guard with hole, propeller diameter 200 mm, height = 26 mm
47-322301-200-17	fan guard with hole, propeller diameter 200 mm, height = 17 mm
47-322301-200-35	fan guard with hole, propeller diameter 200 mm, height = 35 mm
47-322301-230	fan guard with hole, propeller diameter 230 mm, height = 26 mm
47-322301-254	fan guard with hole, propeller diameter 254 mm, height = 26 mm
47-322301-254-17	fan guard with hole, propeller diameter 254 mm, height = 17 mm
47-322301-254-31	fan guard with hole, propeller diameter 254 mm, height = 31 mm
47-322301-300	fan guard with hole, propeller diameter 300 mm, height = 46 mm
47-322301-300-17	fan guard with hole, propeller diameter 300 mm, height = 17 mm
47-322301-350	fan guard with hole, propeller diameter 350 mm, height = 53 mm
47-322400-172	fan guard without hole, propeller diameter 172 mm, height = 26 mm
47-322400-172-11	fan guard without hole, propeller diameter 172 mm, height = 11 mm
47-322400-200	fan guard without hole, propeller diameter 200 mm, height = 26 mm
47-322400-230	fan guard without hole, propeller diameter 230 mm, height = 26 mm
47-322400-230-17	fan guard without hole, propeller diameter 230 mm, height = 17 mm
47-322400-254	fan guard without hole, propeller diameter 254 mm, height = 36 mm
47-322400-254-25	fan guard without hole, propeller diameter 254 mm, height = 25 mm
47-322400-300	fan guard without hole, propeller diameter 300 mm, height = 50 mm
47-322400-300-36	fan guard without hole, propeller diameter 300 mm, height = 36 mm
47-322500-080	fan guard for axial fan diameter 80 mm
47-322500-092	fan guard for axial fan diameter 90 mm
47-322500-120	fan guard for axial fan diameter 120 mm



### Propellers -suction(S) / blowing (B) types

Code	Description
47-322100-154-20	propeller suction type, AL, d = 154 mm / 20° (S)
47-322100-154-26	propeller suction type, AL, d = 154 mm / 26° (S)
47-322100-172-20	propeller suction type, AL, d = 172 mm / 20° (S)
47-322100-172-23	propeller suction type, AL, d = 172 mm / 23° (S)
47-322100-172-26	propeller suction type, AL, d = 172 mm / 26° (S)
47-322100-172-28	propeller suction type, AL, d = 172 mm / 28°(S)
47-322100-172-34	propeller suction type, AL, d = 172 mm / 34° (S)
47-322100-200-23	propeller suction type, AL, d = 200 mm / 23° (S)
47-322100-200-26	propeller suction type, AL, d = 200 mm / 26° (S)
47-322100-200-28	propeller suction type, AL, d = 200 mm / 28° (S)
47-322100-200-34	propeller suction type, AL, d = 200 mm / 34° (S)
47-322100-230-19	propeller suction type, AL, d = 230 mm / 19° (S)
47-322100-230-23	propeller suction type, AL, d = 230 mm / 23° (S)
47-322100-230-26	propeller suction type, AL, d = 230 mm / 26° (S)
47-322100-230-28	propeller suction type, AL, d = 230 mm / 28° (S)
47-322100-230-34	propeller suction type, AL, d = 230 mm / 34° (S)
47-322100-250-23	propeller suction type, AL, d = 250 mm / 23° (S)
47-322100-254-19	propeller suction type, AL, d = 254 mm / 19° (S)
47-322100-254-23	propeller suction type, AL, d = 254 mm / 23° (S)
47-322100-254-26	propeller suction type, AL, d = 254 mm / 26° (S)
47-322100-254-28	propeller suction type, AL, d = 254 mm / 28° (S)
47-322100-254-31	propeller suction type, AL, d = 254 mm / 31° (S)
47-322100-254-34	propeller suction type, AL, d = 254 mm / 34° (S)
47-322100-300-19	propeller suction type, AL, d = 300 mm / 19° (S)
47-322100-300-23	propeller suction type, AL, d = 300 mm / 23° (S)
47-322100-300-27	propeller suction type, AL, d = 300 mm / 27° (S)
47-322100-300-28	propeller suction type, AL, d = 300 mm / 28° (S)
47-322100-300-34	propeller suction type, AL, d = 300 mm / 34° (S)
47-322100-350-23	propeller suction type, AL, d = 350 mm / 23° (S)
47-322100-PL150-26	propeller suction type, PLASTIC, d = 150 mm / 26° (S)
47-322100-PL170-26	propeller suction type, PLASTIC, d = 170 mm / 26° (S)
47-322100-PL200-26	propeller suction type, PLASTIC, d = 200 mm / 26° (S)



Code	Description
47-322101-172	propeller blowing type, AL, d = 172 mm / 28° (B)
47-322101-190-26	propeller blowing type, AL, d = 190 mm / 26° (B)
47-322101-200-28	propeller blowing type, AL, d = 200 mm / 28° (B)
47-322101-230-19	propeller blowing type, AL, d = 230 mm / 19° (B)
47-322101-230-28	propeller blowing type, AL, d = 230 mm / 28° (B)
47-322101-254-19	propeller blowing type, AL, d = 254 mm / 19° (B)
47-322101-254-28	propeller blowing type, AL, d = 254 mm / 28° (B)
47-322101-290-31	propeller blowing type, AL, d = 290 mm / 31° (B)
47-322101-300-19	propeller blowing type, AL, d = 300 mm / 19° (B)
47-322101-300-28	propeller blowing type, AL, d = 300 mm / 28° (B)





**Ventilators  
NO FROST**

Code	Output capacity [W]	Diameters [mm]		Type
		length of shaft [mm]	propeller diameter [mm]	
47-322002-15	4	30	120	blowing
47-322002-07	5	24	90	universal
47-322002-06	7	30	160	universal
47-322002-31	8		without propeller	universal
47-322002-36	8		without propeller	universal
47-322002-10	8,5	40	48	BOSCH
47-322002-05	9	60	100	universal
47-322002-09	10	46	100	universal
47-322002-11	10	47	without propeller	AEG
47-322002-16	10	22,5	100	KELVIN
47-322002-22	11	45	without propeller	
47-322002-12	12	57	100	CANDY
47-322002-13	12	30	100	WHIRLPOOL
47-322002-02	13	29	100	universal
47-322002-03	13	19	100	universal
47-322002-08	15	44	100	BOSCH
47-322002-14	15	19	130	blowing
47-322002-17	15	36	100 and 135	
47-322002-19	18	27	98	
47-322002-23	18	27	130	blowing
47-322002-24	18	27	100	blowing
47-322002-01	20	130		BOSCH
47-322002-21	20	17	150	blowing
47-322002-04	22	19	130	BOSCH
47-322002-20	25	26	150	
47-322002-27	35	15	154	COPREL
47-322002-25				
47-322002-26		45	without propeller	BEKO
47 D4612AAA21			without propeller	DAEWOO

47-322002-01	47-322002-02	47-322002-03	47-322002-04
			
47-322002-05	47-322002-06	47-322002-07	47-322002-08
			
47-322002-09	47-322002-10	47-322002-11	47-322002-12
			
47-322002-13	47-322002-14	47-322002-15	47-322002-16
			
47-322002-17	47-322002-19	47-322002-20	47-322002-21
			
47-322002-22	47-322002-23	47-322002-24	47-322002-25
			
47-322002-26	47-322002-27	47-322002-31	47-322002-36
			
47 D4612AAA21			
			

## Tangential ventilators

Code	Lenthg of turbine [mm]	ø turbine [mm]	Position of motor	No. turbines	Stator [mm]	[W] out	[W] in
47-322045-18015R	180	45	Right	1	15	24	28
47-322045-24020R	240	45	Right	1	20	22	32
47-322060-06015R	60	60	Right	1	15	12	17
47-322060-09015R	90	60	Right	1	15	13	18
47-322060-12020L	120	60	Left	1	20	23	
47-322060-12020R	120	60	Right	1	20	23	
47-322060-18020L	180	60	Left	1	20	27	32
47-322060-18020R	180	60	Right	1	20	27	32
47-3220D60-18030	180	60	Middle	2	30	29	38
47-3220D60EB-18025	180	60	Middle	2	20		25
47-322060-24020L	240	60	Left	1	20	18	32
47-322060-24020R	240	60	Right	1	20	18	32
47-322060-24030L	240	60	Left	1	30	34	40
47-322060-24030R	240	60	Right	1	30	34	40
47-3220D60-24030	240	60	Middle	2	30	36	
47-322060-27020L	270	60	Left	1	20	19	34
47-322060-27020R	270	60	Right	1	20	19	34
47-3220D60-27030	270	60	Middle	2	30	36	
47-322060-30020R	300	60	Right	1	20	19	32



**Axial ventilators  
compact**
**Universal  
EBM PAPST**


Code	Type	Rpm	Voltage	Diameter [mm]	Depth [mm]	Air flow [m³/h]	Type of connection
47-322001-00	universal	1900/2100	230 V	125 x 125	25	-	cable
47-322001-04	universal	2250	230 V	92 x 92	25	135/137	cable
47-322001-01	universal	2500	230 V	80 x 80	38	33/36	cable
47-322001-03	universal	2600	230 V	80 x 80	25	135/155	cable
47-322001-05	universal	2600	230 V	92 x 92	38	44/54	cable
47-322001-02K	universal	2650/3150	230 V	120 x 120	38	135/155	connector
47-322001-02	universal	2650/3150	230 V	120 x 120	38	135/155	cable
47-322001-9956R	9956R - EBM	2450	230 V	119 x 119	25	117	connector
47-322001-4656N	4656N - EBM	2650	230 V	119 x 119	38	160	connector
47-322001-8556A	8556A - EBM	2800	230 V	80 x 80	38	48	connector
47-322001-4414F	4414F - EBM	2900	24 V	119 x 119	25	170	cable
47-322001-3414NHH	3414NHH - EBM	3250	24V	92 x 92	25	102	cable
47-322001-8414NGH	8414NGH - EBM	3600	24V	80 x 80	25	79	cable



Code	Type	Rpm	Voltage	Diameter [mm]	Depth [mm]	Type of connection
47-322001-07	Universal	2350	230 V	Ø 170	50	cable
47-322001-12	Universal	2350	230 V	Ø 220	60	cable
47-322001-W2S130	W2S130-AA03-01 - EBM	2800	230 V	Ø 150	55	cable
47-322001-7114NU	7114NU - EBM	2850	24 V	Ø 150	55	cable

Code	Description
47-322001-29	cable with connectors for EBM ventilators, L = 610 mm
47-322500-080	fan guard without hole (axial ventilator 80 x 80 mm)

**Axial ventilators  
W1G**
**EBM PAPST**

Code	Type	Rpm	Voltage	Diameter [mm]	Depth [mm]
47-322003-W1G200-1	W1G200-1-EC8725	1300	230V	Ø 200	78,5
47-322003-W1G300	W1G300-BB1901	1300	230V	Ø 300	92
47-322003-W1G230	W1G230-EB8901	1500	230V	Ø 230	78,5
47-322003-W1G250	W1G250-BB1701	1700	230V	Ø 250	92
47-322003-W1G200	W1G200-EC9145	2100	230V	Ø 200	78,5
47-322003-W1G172	W1G172-EC9101	2500	230V	Ø 172	78,5

**Axial ventilators  
W2E**
**EBM PAPST**

Code	Type	Rpm	Voltage	Diameter [mm]	Depth [mm]
47-322001-W2E250	W2E250-CM0601	2450	230 V	Ø 320	96
47-322001-W2E300	W2E300-CP02-31	2700	230 V	Ø 397	80

**Radial ventilators**
**EBM PAPST**

Code	Voltage	Diameters [mm]		Rpm	Air flow [m³/h]	Starting capacitor [uF]
		Ø	Depth			
47-32R2E133-BH66-05	230V	133	91	2800	290	1,0
47-32R2E140-AS77-05	230V	140	72	1500	405	2,0
47-32R2E175-AR70-05	230V	175	69	2600	465	1,5
47-32R2E190-RA26-05	230V	190	69	2480	540	1,5
47-32R2E220-AA40-05 47-32R2E220-RB06-01	230V	220	71	2405	865	2,5
47-32R2E220-AA40-71	230V	220	71	2405	865	3,0
47-32R2E220-RA38-01	230V	220	71	2350	885	2,0
47-32R2E225-AX52-05	230V	225	85	2700	1015	3,0
47-32R2E225-RA-92-09	230V	225	99	2660	1175	3,5
47-32R2S175-AA07-39	230V	175	69	2635	495	
47-32R2S175-AB56-01	230V	175	69	2375	445	
47-32RL65-21-14	24V	97 x 93,5 x 33		4500	56	

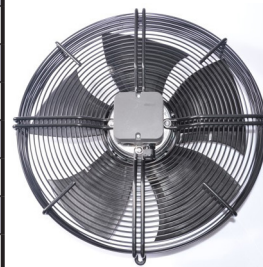
**Axial ventilators  
sucking types, 1 phase**

EBM PAPST

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322005-200EBM-2P	S2E200-BF02-01	200	2	metal	2015
47-322005-250EBM	S4E250-AH02-06	250	4	metal	2015
47-322005-250EBM-2P	S2E250-AL06-01	250	2	metal	2015
47-322005-300EBM	S4E300-AS72-82	300	4	plastic	2015
47-322005-315EBM	S4E315-AP18-30	315	4	metal	2015
47-322005-330EBM	S4E330-AP18-30	330	4	metal	*
47-322005-350EBM	S4E350-AN02-50	350	4	plastic	2015
47-322005-350EBM-6	S6E350-AR08-30	350	6	metal	*
47-322005-360EBM without cage	A4E360-AC20-05	360	4	plastic	*
47-322005-400EBM	S4E400-AP02-44	400	4	metal	2015
47-322005-450EBM	S4E450-AP01-11	450	4	metal	2015
47-322005-450EBM-6	S6E450AP02-06	450	6	metal	*
47-322005-500EBM	S4E500-AM03-01	500	4	plastic	2015
47-322005-500EBM-6P	A6E500-BB05-10	500	6	metal	2015

\* ventilators for service purposes (not for OEM's)

Type	Rpm	Air flow [m³/h]	Connection	Capacitor
S2E200-BF02-01	2740	740	cable	1,5 uF
S4E250-AH02-06	1400	1015	terminal box	1,5 uF
S2E250-AL06-01	2450	1820	cable	
S4E300-AS72-82	1320	1800	terminal box	including
S4E315-AP18-30	1410	2450	cable	4 uF
S4E330-AP18-30	1390	2835	cable	4 uF
S4E350-AN02-50	1400	3305	terminal box	4 uF
S6E350-AR08-30	905	2110		2,5 uF
A4E360-AC20-05	1320			3 uF
S4E400-AP02-44	1430	4235	terminal box	6 uF
S4E450-AP01-11	1400	5705	terminal box	8 uF
S6E450AP02-06	940	3105		4 uF
S4E500-AM03-01	1300	8900	terminal box	including
A6E500-BB05-10	895	5900		6 uF


**Axial ventilators suction  
type without cage, 1 phase**

EBM PAPST

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322005-500EBM-6P	A6E500-BB05-10	500	6	metal	2015

Type	Rpm	Air flow [m³/h]	Capacitor
A6E500-BB05-10	895	5900	6 uF

**Axial ventilators  
sucking types, 3 phase**
**EBM PAPST**

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322005-3-350EBM	S4D350-AN08-50	350	4	metal	*
47-322005-3-400EBM	S4D400-AP12-50	400	4	metal	*
47-322005-3-450EBM	S4D450-GA14-01	450	4	metal	*
47-322005-3-500EBM	S4D500-AM03-01	500	4	plastic	*
47-322005-3-560EBM	S4D560-AQ01-01	560	4	plastic	2015
47-322005-3-630EBM-6	S6D630-AN01-01	630	6	metal	2015
47-322005-3-630EBM-4	S4D630-AH01-01	630	6	metal	2015
47-322005-3-710EBM-4	S4D710-AF01-01	710	4	metal	2015
47-322005-3-710EBM-6	S6D710-AQ01-01	710	6	metal	2015
47-322005-3-800EBM-6	S6D800-AD01-01	800	6	metal	2015
47-322005-3-800EBM-8	S8D800-AD05-03	800	8	metal	2015
47-322005-3-910EBM-8	S8D910-CD03-01	910	8	metal	*
47-322005-3-910EBM-6	S6D910-AA01-01	910	6	plastic	2015

\* ventilators for service purposes (not for OEM's)

Type	Rpm	Air flow [m³/h]	Connection
S4D350-AN08-50	1370	2105	
S4D400-AP12-50	1450	4000	terminal box
S4D450-GA14-01	1410	4500	terminal box
S4D500-AM03-01	1390	5860	
S4D560-AQ01-01	1275	11690	terminal box
S6D630-AN01-01	930	11270	terminal box
S4D630-AH01-01	1400	13700	terminal box
S4D710-AF01-01	1350	13480	
S6D710-AQ01-01	930	14500	terminal box
S6D800-AD01-01	880	24110	terminal box
S8D800-AD05-03	750	18000	terminal box
S8D910-CD03-01	690	23920	cable
S6D910-AA01-01	885	32100	terminal box



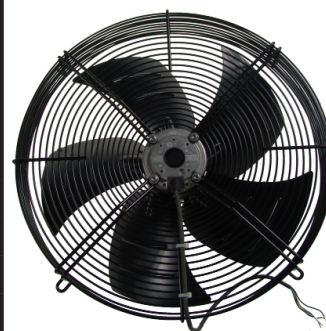
**Axial ventilators  
blowing type, 1 phase**

EBM PAPST

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322006-200EBM-2P	S2E200-BF02-02	200	2	aluminium	2015
47-322006-250EBM-2P	S2E250-BE65-02	250	2	aluminium	*
47-322006-300EBM	S4E300-AS72-60	300	4	plastic	2015
47-322006-315EBM	S4E315-AP18-31	315	4	plastic	2015
47-322006-330EBM	S4E330-AP18-31	330	4	aluminium	*
47-322006-350EBM	S4E350-AP06-66	350	4	aluminium	2015
47-322006-450EBM	S4E450-AP01-05	450	4	aluminium	2015
47-322006-450EBM-6P	S6E450-AP02-02	450	6	aluminium	2015
47-322006-630EBM	S6E630-AD01-02	630	6	aluminium	*

\* ventilators for service purposes (not for OEM's)

Type	Rpm	Air flow [m³/h]	Connection
S2E200-BF02-02	2 740	740	cable
S4E250-AI-02-01	2 550	1 610	cable
4E300-AS72-60	1 320	1 800	terminal box
S4E315-AP18-31	1 400	2 400	cable
S4E330-AP18-31	1 390	2 835	terminal box
S4E350-AP06-66	1 340	3 300	terminal box
S4E450-AP01-05	1 400	6 495	terminal box
S6E450-AP02-02	940	4 725	
S6E630-AD01-02			


**Axial ventilators  
blowing type, 3 phase**

EBM PAPST

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322006-3-300EBM	S4D300-AS34-55	300	4	aluminium	2015
47-322006-3-315EBM	S4D315-AP10-31	315	4	aluminium	2015
47-322006-3-450EBM	S4D450-AP01-02	450	4	aluminium	2015

Type	Rpm	Air flow [m³/h]	Connection
47-322006-3-300EBM	1 350	1 700	cable
47-322006-3-315EBM	1 400	2 100	cable
47-322006-3-450EBM	1 400	5 700	cable





**Axial ventilators  
sucking type, 1 phase**

Ziehl Abegg

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322005-250FN-2P	FN025-2EK.WA.V7	250	2	composite	2015
47-322005-250FN	FN025-4EK.W8.V7	250	4	composite	2015
47-322005-300FN	FN030-4EK.WA.V7	300	4	composite	2015
47-322005-315FN	FN031-4EK.WD.V7	315	4	composite	2015
47-322005-350FN	FN035-4EK.WD.V7	350	4	composite	2015
47-322005-400FN	FN040-4EK.0F.V7P1	400	4	composite	2015
47-322005-450	FB045-4EK.4F.V6P	450	4	aluminium	2015
47-322005-450FN-6P	FN045-6EK.2F.V7P3	450	6	composite	2015
47-322005-500	FB050-4EK.4F.V4L	500	4	aluminium	2015
47-322005-500FN	FN050-4EK.4I.V7P1	500	4	aluminium	2015
47-322005-630FN	FN063-8EK.4I.V7P1	630	8	aluminium	*

\* ventilators for service purposes (not for OEM's)

Type	Rpm	Air flow [m³/h]	Connection	Capacitor
FN025-2EK.WA.V7	2 160	1 700	terminal box	including
FN025-4EK.W8.V7	1 370	990	terminal box	including
FN030-4EK.WA.V7	1 290	2 000	terminal box	including
FN031-4EK.WD.V7	1 330	2 300	terminal box	including
FN035-4EK.WD.V7	1 070	2 900	terminal box	including
FN040-4EK.0F.V7P1	1 340	3 800	terminal box	including
FB045-4EK.4F.V4P	1 320	5 500	terminal box	including
FN045-6EK.2F.V7P3	950	3 750	terminal box	including
FB050-4EK.4F.V4L	1 240	6 500	terminal box	including
FN050-4EK.4I.V7P1	1 240	7 450	terminal box	including
FN063-8EK.4I.V7P1	650	8 000	terminal box	including


**Axial ventilators  
sucking type, 3 phase**

Ziehl Abegg

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322039-300	S300 CR46 TG-030W04A1	300	4	composite	2015
47-322005-3-350FN	FN035-VDK.0F.V7P2	350	4	composite	2015
47-322005-3-400FN	FN040-VDK.0F.V7P1	400	4	composite	2015
47-322005-3-400	FB040-VDK.2C.V4P	400	4	aluminium	2015

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322005-3-450FN	FN045-VDK.4F.V7P1	450	4	aluminium	2015
47-322005-3-450	FB045-VDK.4F.V4S	450	4	aluminium	2015
codes 47-322005-3-450FN and 47-322005-3-450 are interchangeable					
47-322005-3-450FN-6	FN045-SDK.4F.V7P1	450	6	aluminium	2015
47-322005-3-450-6	FB045-SDK.4C.V4L	450	6	aluminium	2015
codes 47-322005-3-450FN-6 a 47-322005-3-450-6 are interchangeable					
47-322005-3-500	FB050-VDK.4I.V4P	500	4	aluminium	2015
47-322005-3-500FN	FN050-VDK.4I.V7P1	500	4	aluminium	2015
47-322005-3-500FN-6	FN050-SDK.4F.V7P1	500	6	aluminium	2015
47-322005-3-560FN	FN056-VDK.4M.V7P2	560	4	aluminium	2015
47-322005-3-560FN-6	FN056-SDK.4F.V7P2	560	6	aluminium	2015
47-322005-3-630FN-4	FN063-VDK.6N.V7P6	630	4	aluminium	2015
47-322005-3-630FN-6	FN063-SDK.4I.V7P1	630	6	aluminium	2015
47-322005-3-630FN	FN063-ADK.4I.V7P1	630	8	aluminium	*
47-322005-3-710FN-4	FN071-VDK.6N.V7P2	710	4	aluminium	2015
47-322005-3-710FN-6	FN071-SDK.6F.V7P1	710	6	aluminium	2015
47-322005-3-710FN	FN071-NDK.6F.V7P1	710	12	aluminium	*
47-322005-3-800FN-6	FN080-SDK.6N.V7P1	800	6	aluminium	2015
47-322005-3-800FN	FN080-NDK.6F.V7P2	800	12	aluminium	*
47-322005-3-910FN-6	FN091-SDK.6N.V7P2	910	6	aluminium	2015

\* ventilators for service purposes (not for OEM's)

Type	Rpm	Air flow [m³/h]	Connection
S300 CR46 TG030W04A1	1 420	1 800	terminal box
FN035-VDK.0FV7P2	1 390	3 500	terminal box
FN040-VDK.0F.V7P1	1 360	3 800	terminal box
FB040-VDK.2C.V4P	1 340	3 550	terminal box
FN045-VDK.4F.V7P1	1 350 / 1 020	7 100 / 5 800	terminal box
FB045-VDK.4F.V4S	1 360 / 1 040	6 000 / 5 000	terminal box
FN045-SDK.4F.V7P1	900 / 690	4 700 / 3 700	terminal box
FB045-SDK.4C.V4L	920 / 730	3 350 / 3 100	terminal box
FB050-VDK.4I.V4P	1 430	7 600	terminal box
FN050-VDK.4I.V7P1	1 340 / 940	9 500 / 7 500	terminal box
FN050-SDK.4F.V7P1	1 340 / 941	6 200 / 4 570	terminal box
FN056-VDK.4M.V7P2		11 300	terminal box
FN056-SDK.4F.V7P2		11 700	terminal box
FN063-VDK.6N.V7P6		20 700	terminal box
FN063-SDK.4I.V7P1		11 200	terminal box
FN063-ADK.4I.V7P1	750	8 100	terminal box
FN071-VDK.6N.V7P2	1 330	22 500	terminal box
FN071-SDK.6F.V7P1		14 600	terminal box
FN071-NDK.6F.V7P1	450	7 200	terminal box
FN080-SDK.6N.V7P1		25 000	terminal box
FN080-NDK.6F.V7P2		12 100	terminal box
FN091-SDK.6N.V7P2		26 500	terminal box



**Axial ventilators  
blowing type, 1 phase**

Ziehl Abegg

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322006-250FN	FN025-4EW.W8.A7	250	4	composite	2015
47-322006-300	FN030-4EW.WA.A7	300	4	composite	2015
47-322006-350	FN035-4EW.WD.A7	350	4	composite	2015
47-322006-400	FN040-4EW.0F.A7P1	400	4	composite	2015
47-322006-450	FN045-4EW.4I.A7P1	450	4	composite	2015
47-322006-450FN-6	FN045-6EW.2F.A7P3	450	6	composite	2015
47-322006-500	FL050-4EW.4F.A5L	500	4	aluminium	2015

Type	Rpm	Air flow [m³/h]	Connection
FN025-4EW.W8.A7	1 370	990	terminal box
FN030-4EW.WA.A7	1 290	2 000	terminal box
FN035-4EW.WD.A7	1 230	3 250	terminal box
FN040-4EW.0FA7P1	1 340		terminal box
FN045-4EW.2F.A7P1	1 290	5 750	terminal box
FN045-6EW.2F.A7P3	700	3 750	terminal box
FL050-4EW.4F.A5L	1 230	6 850	terminal box


**Axial ventilators  
blowing type, 3 phase**

Ziehl Abegg

Code	Type	Ø [mm]	Poles	Material of blades	ERP
47-322006-3-350FN	FN035-VDW.0F.A7P2	350	4	composite	2015
47-322006-3-400FN	FN040-VDW.0F.A7P1	400	4	composite	2015
47-322006-3-450FN	FN045-VDW.4F.A7P1	450	4	aluminium	2015
47-322006-3-450FN-6	FN045.SDW.4F.A7P1	450	6	aluminium	2015
47-322006-3-500FN	FN050-VDW.4I.A7P1	500	4	aluminium	2015
47-322006-3-500FN-6	FN050-SDW.4F.A7P1	500	6	aluminium	2015

Type	Rpm	Air flow [m³/h]	Connection
FN035-VDW.0F.A7P2	1 390	3 500	terminal box
FN040-VDW.0F.A7P1	1 360 / 1 080	3 800 / 3 300	terminal box
FN045-VDW.4F.A7P1	1 350	7 100	terminal box
FN045.SDW.4F.A7P1	900	4 700	terminal box
FN050-VDW.4I.A7P1	1 340	9 500	terminal box
FN050-SDW.F.A7P1	880	6 200	terminal box



**Fan speed controllers  
+ accessories**

Code	Producer	Description
47-32FA1550064	FASEC	filter for speed controllers FASEC 7A H28D38
47-32FA54370000		speed controller FASEC 43 230V1/50Hz, 2.5 A or 7 A with filter, 48 x 96 x 96 mm, fan speed regulation based on evaporator temperature, range: -40 / +30 °C, difference: 3 - 31 °C
47-32FA53370000		speed controller FASEC 33 230V, 50 Hz, 0/60°C, regulation of speed by temperature, output: 2,5 A triac
47-32FA53371500		speed controller FASEC 33 230V, 50 Hz, 0/60°C, regulation of speed by temperature, output: 7A triac
47-32FA55371700		speed controller FASEC 53 230V/1/50Hz, 2.5 A or 7 A with filter, 48 x 96 x 96 mm, manual speed regulation of ventilators Ziehl-Abegg
47-32P215SH-9100	JOHNSON CONTROLS	speed controller Johnson Controls P215SH-9100, 230V, 50/60 Hz
47-32P215DP-9100		speed controller Johnson Controls P215DP-9100, range 14-24 bar $\pm$ 2,5 $\pm$ 0,5 bar, pressure connection type 50 (including muffler) - 90 cm tube, nut 7/16-20UNF, CU seal
47-32P215PR-9200		speed controller Johnson Controls P215PR-9200
47-32P216EEA-1K		speed controller Johnson Controls P216EEA-1K, range 14-24 bar, pressure connection type 50, 90 cm tube
47-32FSF-N15	ALCO	cable assembly ALCO, for controller FSY, L = 1,5 m, 804640
47-32FSO-N15		cable assembly ALCO, for controller FSX, L = 1,5 m, 804630
47-32FSY-42S		speed controller ALCO, FSY-42S, 0715534, range: 9,2 - 21,2 bar, set point 15, bar, max. working pressure: 47-32bar, testing pressure 36 bar, connection: 7/16" - 20 UNF inner
47-32FSY-43S		speed controller Alco, FSY-43S, 0715537, range: 12,4 - 28,4 bar, set point 21,8 bar, max. working pressure: 43 bar, testing pressure 48 bar, connection: 7/16" - 20 UNF inner
47-32PE-1	ZIEHL-ABEGG	speed controller, Ziehl-Abegg, P-E-1 A, 1~230 V, manual
47-32PE-2,5		speed controller, Ziehl-Abegg, P-E-2,5 A, 1~230 V, manual
47-32FP2094	ASPEN	speed controller ASPEN - FP2094, 230V 50/60 Hz, for colling applications
47-32FP2095		speed controller ASPEN - FP2095, 230V 50/60 Hz, for heat pumps
47-32XV105D-50DN0	DIXELL	speed controller, DIXELL - XV 105D-50DN0, 230V 50 Hz, input: NTC, action: direct, range: 0-60°C, diff.: 1 to 30 [°C], 500W an external power module can be connected [W]
47-32XV105D-50DV0		speed regulator, DIXELL - XV 105D-50DV0, 230V 50 Hz, input 0/1 [V], Asction: inverse, range: 0 - 1 [V ss], diff: 0 to 0,5 [V], 500W an external power module can be connected [W]
47-32XV05PK		speed regulator, DIXELL - XV05PK (PD), 230V

**Thermostat LG,  
Samsung**

Universal

Code	Type	Working range [°C]		Capillary lenght [mm]
		max. out / in	min. out / in	
47-324808-00	universal	+4 / -30	+4 / -16	900

**Room  
thermostats**

Prodigy

Code	Type	Working range [°C]	Capillary lenght [mm]
47-324800-20	F 2000	-35 up to + 35	2 500
47-324800-21	F 2000	-35 up to + 35	1 500
47-324800-22	A 2000	-35 up to + 35	170
47-324800-23	F 2000	0 up to + 40	1 500
47-324800-24	F 2000 (dig. thermometer)	-35 up to + 40	1 500
47-324800-25	A 2000	0 up to + 40	170

**Thermostats**

Atea

Code	Type	Working range [°C]		Capillary lenght [mm]
		max. out / in	min. out / in	
47-324800-06	A 01 0343	-0,5 / +7	-15,5	1 800
47-324800-05	A 04 0088	-22 / -30	-14 / -16	1 500
47-324800-03	A 04 0287	-22 / -30	-14 / -16	600 / alarm
47-324800-04	A 04 1000	-25 / -32	-12 / -18,5	2 000 / alarm
47-324800-00	A 13 0137	+3 / -25	+3 / -10	1 500
47-324800-01	A 13 0212	+3 / -25	+3 / -10	800
47-324800-07	A 13 0432	-10 / +3	-25 / +3	900
47-324800-02	A 13 1000	+4,5 / -26	+4,5 / -13	1 200
47-324800-08	A 13 1002	+4,5 / -26	+4,5 / -13	2 000
47-324800-18	A01 1000	-25 / -32	-12 / -18	2 000
47-324800-17	A02 1000	-17 / -25	-2 / -9	1 200
47-324800-13	A03 1000	+4,5 / -26	+4,5 / -13	1 300
12 038640	A13 0172	+4 / -13,5	+4 / -24	700
47-324800-30	A13 0368	+4 / -17	+4 / -28	1 050
47-324800-31	A13 0377	+4 / -17	+4 / -28	1 150
47-324800-32	A13 0397	+4 / -18	+4 / -33	1 300
47-324800-12	A13 0400			1 200
47-324800-15	A13 0646	+4,5 / -26	+4,5 / -13	2 500
47-324800-09	A13 0696	+4,5 / -33	+4,5 / -19	650
47-324800-19	A13 0746	-30 / -10	+5 / +5	800
47-324800-10	A13 0777	-5 / -31	+5 / -19	900

**Thermostats -  
universal with accessories**

Atea (W)

Code	Type	Working range [°C]		Capillary length [mm]
		max. out / in	min. out / in	
47-324802-W1	W1	-14 / -22	-1,5 / -6	1 200
47-324802-W2	W2	-17 / -25	-2 / -9	1 200
47-324802-W3	W3	+4,5 / -26	+4,5 / -13	1 200
47-324802-W4	W4	+4,5 / -26	+4,5 / -13	1 200
47-324802-W5	W5	-25 / -32	-12 / -18,5	2 000
47-324802-W6	W6	-25 / -32	-12 / -18,5	2 000
47-324802-W7	W7	+3 / -5	+11 / +5	2 000
47-324802-W8	W8 (W4/2)	+4,5 / -26	+4,5 / -13	2 000


**Thermostats**

Danfoss

Code	Type	Working range [°C]		Capillary length [mm]
		max. out / in	min. out / in	
47-324806-00	077B0020	-4,5 / -11,8	3,5 / -3	1000
47-324806-01	077B0021	-9,7 / -21	-2 / -11	1000
47-324806-02	077B0033	-13,5 / -24,5	2,5 / -5	1200
47-324806-03	077B0155	-1 / -8,5	10,9 / 5,2	2000
47-324806-04	077B2020	-22 / -33	-15 / -23	800
47-324806-05	077B2021	-22,7 / -30	-17 / -23	1 200
47-324806-06	077B2077	-24 / -34,7	-10 / -17	2 000
47-324806-07	077B6021	3,5 / -23	3,5 / -12,5	1 000
47-324806-08	077B6208	3,5 / -27,5	3,5 / -11	1 200
47-324806-09	077B6220	3,5 / -20	3,5 / -10	1 000
47-324806-11	077B6150	3,5 / -8,3	3,5 / -18	1 650
47-324806-12	077B6100	3,5 / -8,3	3,5 / -18	850
47-324806-13	077B6201	-1 / -20	-10 / -31	1 000
47-324806-14	077B2327	-22 / -32	-15 / -23	800
47-324806-28	077B2263			
47-324806-31	077B6940			800
47-324806-32	077B0028	3/-4,5	10,5/5,0	1 200

**Temperature  
controllers**

Danfoss

Code	Type	Temperature range [°C]	Capillary length [mm]	Difference [K]
47-32017-501466	RT3	-25 up to 15	2 000	1 - 4 / 2,8 - 10
47-32017-509966	RT14	-5 up to 30	2 000	2 - 10 / 2 - 8
47-32017L003466	RT14L	-5 up to 30	2 000	1,5 - 5 / 1,5 - 5
47-32060L1121	KP77	20 up to 60	2 000	3,5 - 10 / 3,5 - 10

**Temperature controllers**
**Alco Danfoss**

Code	Type	Temperature range [°C]	Capillary length [mm]	Difference [K]
47-32TS1-A5F	TS1-A5F	20 up to 60	2 000	3,0 - 10,0
47-32060L1101	KP61	-30 up to 15	5 000	1,5 - 7,0 / 5,5 - 23,0
47-32060L1104	KP61	-30 up to 15	5 000	2,0 - 6,0
47-32060L1128	KP61	-30 up to 15	2 000	1,5 - 7,0 / 5,5 - 23,0

**Thermostats**
**Mikrona**

Code	Type / Capillary length [mm]	Temperature range [°C]			
		max. out / in		min. out / in	
47-324805-00	942.145 / 900	+2	-6	-9	< -14
47-324805-01	942.24 / 900	-5 ±2	-	-	-30 ±3
For models: C 175, C 225, C 275					
47-324805-03	942.52 / 600	-18 ±1,5	-	-	-30
For models: M 60, M 90					
47-324805-05	C 411 / 750/600+n	+4 ±1,5	-17 ±1,5	-	-27 ±2
For models: SCD 260, 290, SCB 340, 350					
47-324805-06	C 421 / 900/750	+5 ±1,5	-8 ±1,5	-	-21 ±1,5
47-324805-08	C 441 / 700/550+n	+3 ±1,5	-15 ±1,5	-	-24 ±1,5
For models: SCB 345, 352 chl					
47-324805-09	C 451 / 1100/950	+4 ±1,5	-17,5 ±1,5	-	-27 ±2
47-324805-10	C 461 / 1200/1050	+5 ±1,5	-8 ±1,5	-	-19,5 ±2
For models: CGR 370C, CGR 370F					
47-324805-11	C 471 / 900/750+n	+3 ±1,5	-10 ±1,5	-	-25 ±1,5
	C 431 / 900/750+n	For models: CCB 305 F, 345, 355, chl, CGR 345C, 145			
47-324805-12	C 481 / 1800/1650	+3 ±1	-10 ±1,5	-	-25 ±2
		For models: CGR 345 C			
47-324805-20	TF 57 AF3 / 900	-7 ±2	-16 ±2	-18 ±2	-30 ±2
		For models: SCR 150, 175, 225, 275, CCR 150F, 230F			

## Thermostats

## Ranco

Code	Type	Working range [°C]		Capillary length [mm]
		max. out / in	min. out / in	
47-324801-00	K59-H1312	+2 / -23	+2 / -23	900
47-324801-01	K59-H2801	+2 / -26	+2 / -15,5	600
47-324801-02	K59-P3131	+2 / -26	+2 / -15,5	2 000
47-324801-03	K59-P3139	+5 / -26	+5 / -15,5	600
47-324801-04	K59-H2805	+5 / -28	+5 / -11	1 500
47-324801-05	K59-L1027 CHO	+5 / -26,4	+4,8 / -15,8	800
47-324801-06	K59-L1102	+3,5 / -26	+3,5 / -11	1 200
47-324801-07	K59-L1119	+5 / -32,5	+4,8 / -12,3	2 250
47-324801-08	K60-L2054	+5,5 / -25	-1 / -7	800
47-324801-09	K50-H1122	+2 / -26	+11,5 /	850
47-324801-10	K50-P1118	+2 / -3	+12,5 /	1 200
47-324801-11	K59-P1761	+4 / -32,5	+4 / -19	1 350
47-324801-12	K59-H1303	+4,5 / -21	+4,5 / -6,5	2 000
47-324801-13	K50-H2005 P	-0,5 / -2,5	+14/	1 450
47-324801-14	K50-H1104 CH	- / -22,5	+2 / -5	1 200
47-324801-15	K50-H1107 N	+2 / -3	+12,5 / -	2 000
47-324801-16	K54-H1404 M	- / -34	-12 / -16,5	2 000
47-324801-21	K61-L1505 CHO	+3,5 / -18	+3,5 / -8	1 500
47-324801-22	K59-P1793	-25 / +3,5	-12 / +3,5	1 700
47-324801-24	K14-P0121	+0,7 / +3	+17,6 / -	1 200
47-324801-27	K59-P3151	-26 / +3,5	-15,5 / +3,5	1 600
47-324801-28	K52-L2533	+3,2 / -0,3	+3,2 / +7,4	1 600
47-324801-32	K50-H1121	-1,2 / -	- / +9	850
47-324801-35	K50-H2005	-0,5 / -2,5	+14 /	1 450
47-324801-37	K55-L7505	+4 / -1	+14 / +10	600
47-324801-38	K50-L3019	+3,5 / -1	+7,5 /	1 200
47-324801-39	K55-L7508	+4 / -1	+14 /	1 500
47-324801-40	K61-L1506	/ -22	+4 / -8	2 250
47-324801-41	K14-P0130	+0,2 / -2,4	+0,2 / -2,4	900
47-324801-42	K59-L1260	/ -32,5	+4,8 / -12,3	1 000
47-324801-46	K59-L2184	-27,4/4,8	-7,2/4,8	785
47-324801-49	K50-L3442			
47-324801-50	K59-L2622	/-10	/-25	600
47-324801-51	K59-L1287	/ -19	-7 / +5	900
47-324801-52	K59-H1300	+5/-19	+5/-7	900
47-324801-55	K59-L2543	-28/-15	+4/-14,5	700
47-324801-56	K59-L2584	+5/-28	+5/-6	1 200
47-324801-57	K59-L2680	5,3/-28	5,3/-10,3	950
47-324801-58	K59-L1265000	/-26	+5/-16	1 000
47-324801-59	K50 P6073	+3,6/+14,2	-13,5/+2,3	1 200
47-324801-60	K59-L2683	+4/-30	+4/-16	900
47-324801-61	K59-L2684	+5/-29,5	+5/-10	900



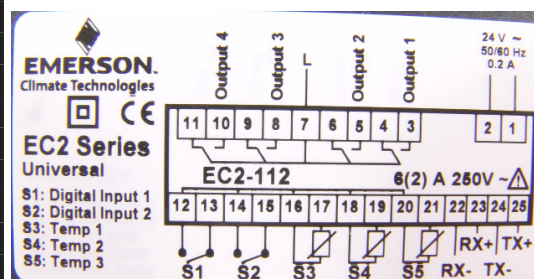
**Controllers**
**Emerson /  
Alco**

Code	Description
47-32EC2-112	universal controller Emerson, EC2-112, 24Vac, TCP/IP,807472
47-32EC2-212	TXV superheat controller Emerson version for use with compressor pack system, EC2-212, TXV, 24Vac, TCP/IP, 807482
47-32EC2-312	temperature / temperature superheat control Emerson for EX2 version for use with a compressor pack system, EC2 312, EXV, 24 Vac,
47-32EC2-352	temperature / pressure superheat controller Emerson for EX2 version for use with a compressor pack system, EC2 352, EXV, 24 Vac, TCP/IP, 807772
47-32EC2-512	condensing unit controller Emerson for 2 single stage compressors and 2 fans, on/off control, EC2-512, 24 Vac, TCP/IP, 807732
47-32EC2-552	condensing unit controller for 1 Copeland Scroll digital and 1 single stage or 2 single stage compressors, fan speed control Emerson, EC2-552, 807738

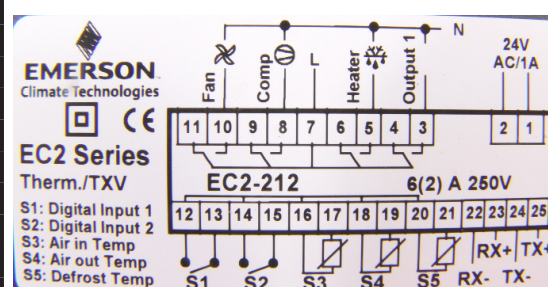
Code	Description
<b>Transformers</b>	
47-32ECT-323	transformer ECT-323 / 804424, 230 VAC to 24 V, 25 VA, mounting: DIN rail
47-32ECT-523	transformer ECT-523 / 804332, 115/230 V to 12/24 V, 20 VA, mounting: DIN rail
47-32ECT-623	transformer ECT-623 / 804421, 230 V to 24 V, 60 VA, mounting: DIN rail
<b>Cable assembly</b>	
47-32PT4-M15	cable assembly PT4-M15 / 804803, L = 1,5 m, temperature range: - 50 - +80 [°C] static applications, -25 - +80 [°C] mobile applications, cable: 2 x 0,34 mm <sup>2</sup>
47-32PT4-M30	cable assembly PT4-M30 / 804804, L = 3 m, temperature range: - 50 - +80 [°C] static applications, -25 - +80 [°C] mobile applications, cable 2 x 0,34 mm <sup>2</sup>
<b>Pressure transmitters</b>	
47-32PT5-07M	pressure transmitter PT5-07M / 802350, pressure range -0,8 - 7 [bar], 4 - 20 [mA], max. working pressure: 27 [bar], testing pressure: 30 [bar], for R134a, R22, R404A, R407C, R507C, R124
47-32PT5-18M	pressure transmitter PT5-18M / 802351, pressure range 0 - 18 [bar], 4 - 20 [mA], max. working pressure: 55 [bar], testing pressure: 63 [bar], for R410a only
47-32PT5-30M	pressure transmitter PT5-30M / 802352, pressure range 0 - 30 [bar], 4 - 20 [mA], max. working pressure: 60 [bar], testing pressure: 100 [bar], for R744
<b>Temperature sensors NTC</b>	
47-32ECN-C60	sensor NTC, l = 6 m, Alco ECN-N60, 804497
47-32ECN-S30	sensor NTC, l = 3 m, PVC, Alco, ECN-S30, 804305
47-32ECP-P30	sensor NTC, l = 3 m, for pipes, Alco, ECP-P30, 804495
<b>Connectors</b>	
47-32EC2-112-K	connector K02-211 Alco, for EC2-21X and EC2-11X, 807647
47-32EC2-540-K	connector K02-540 Alco, for EC2-54X and EC2-55X, 800070

**47-32EC2-112**

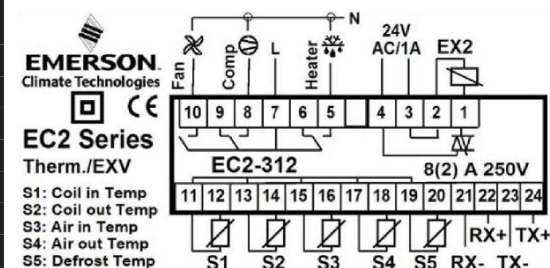
Application: universal controller  
 Power supply: 24VAC+/-10% 50/60Hz  
 Diameters: 78 x 36 x 83 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: cables with a cross section up to  $\varnothing$  1,5 mm<sup>2</sup>  
 Operating temperature: 0 - 60°C  
 Humidity: 0 - 80% R.H. (non condensing)  
 Analog inputs: 3 x NTC  
 Digital inputs: 2x free voltage contacts  
 Serial port: TCP/IP or LON Ethernet 10Mbit/sec. FTT10  
 Outputs: 4 x (AC1) 250V / 6A  
 Adjustable output: 4

**47-32EC2-212**

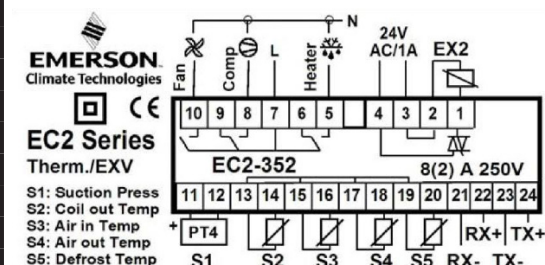
Application: to control coldrooms and display cabinets by protocol TPC/IP  
 Power supply: 24VAC+/-10% 50/60Hz  
 Diameters: 78 x 36 x 83 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: cable with a cross section up to  $\varnothing$  1,5 mm<sup>2</sup>  
 Operating temperature: 0 - 60°C  
 Humidity: 0 - 80% R.H. (non condensing)  
 Analog inputs: 3 x NTC  
 Digital inputs: 2x free voltage contacts  
 Serial port: TCP/IP Ethernet 10Mbit/sec.  
 Outputs: 4 x (AC1) 250V / 6A  
 Adjustable output: 1

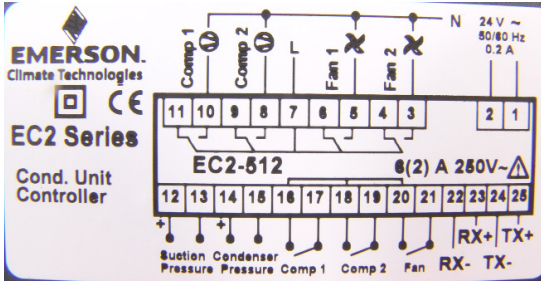
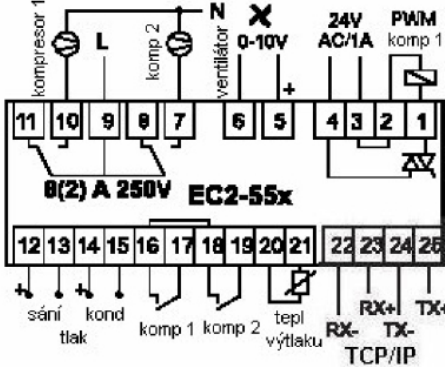
**47-32EC2-312**

Application: to controll coldrooms and display cabinets with protocol TPC/IP  
 Power supply: 24VAC+/-10% 50/60Hz  
 Diameter: 78 x 36 x 83 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: cable with a cross section up to  $\varnothing$  1,5 mm<sup>2</sup>  
 Working temperature: 0 - 60°C  
 Humidity: 0 - 80% R.H. (non condensing)  
 Analog inputs: 5 x NTC  
 Digital inputs: -  
 Serial port: TCP/IP Ethernet 10Mbit/sec.  
 Outputs: 3 x (AC1) 250V / 8A  
 Adjustable output: -

**47-32EC2-352**

Application: to controll coldrooms and display cabinets  
 Power supply: 24VAC+/-10% 50/60Hz  
 Diameters: 78 x 36 x 83 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: cable with a cross section up  $\varnothing$  1,5 mm<sup>2</sup>  
 Working temperature: 0 - 60°C  
 Humidity: 0 - 80% R.H. (non condensing)  
 Analog inputs: 4 x NTC  
 Digital inputs: -  
 Serial port: TCP/IP Ethernet 10Mbit/sec.  
 Outputs: 3 x (AC1) 250V / 8A  
 Adjustable output: -



<p><b>47-32EC2-512</b></p> <p>Application: condensing unit controller          Power supply: 24VAC+/-10% 50/60Hz class II          Diameters: 78 x 36 x 83 mm          Mounting: panel cut-out: 71 x 29 mm          Connection: cable with a cross section up to Ø 1,5 mm<sup>2</sup>          Working temperature: 0 - 60°C          Humidity: 0 - 80% R.H. (non condensing)          Analog inputs: 4 x NTC          Digital inputs: volt free contacts 5V/0,1 mA          Serial port: TCP/IP Ethernet 10Mbit/sec.          Outputs: 1 x (AC1) 250V / 8A, 1 x (AC15) 250V / 2A, SPDT contacts          Adjustable output: -</p>	
<p><b>47-32EC2-552</b></p> <p>Application: condensing unit controller          Power supply: 24VAC+/-10% 50/60Hz class II          Diameters: 78 x 36 x 83 mm          Mounting: panel cut-out: 71 x 29 mm          Connection: cable with a cross section up to Ø 1,5 mm<sup>2</sup>          Working temperature: 0 - 60°C          Humidity: 0 - 80% R.H. (non condensing)          Analog inputs: 4 x NTC          Digital inputs: volt free contacts 5V/0,1 mA          Serial port: TCP/IP Ethernet 10Mbit/sec.          Output: 1 x (AC1) 250V / 8A, 1 x (AC15) 250V / 2A, SPDT contacts          Adjustable output: -</p>	

**Electronic controllers**

 Beta /  
Atex

Code	Description
47-321000-00	digital controller BETA RD 31-6001, 230V 50/60Hz, 1PTC sensors
47-321000-03	digital controller BETA BL 33-2601-16A, 230V 50/60Hz, 1-2PTC sensors
47-321000-04	digital controller BETA BL 43-2601-16A, 115/230V 50/60Hz, 1-2 sensors
47-321000-08	digital controller BETA ML 32-5001-16A, milk applications, 230V
47-321000-09	digital controller BETA WH 31-1001 displ, 230 V, 50/60Hz, 1PTC
47-321000-11	digital controller BETA GR 32-4001, 230V 50/60Hz, 1PTC sensor
47-321000-14	digital controller BETA RD 31-6004, 12/24V DC, 1PTC sensor
47-321000-30	digital controller BETA RC 31-6001-16A , 230V 50/60Hz
47-321000-31	digital controller BETA RC 31-6004-16A , 9-24 V
47-321000-32	digital controller BETA RC 33-6001-16A , 230V 50/60Hz
47-321000-33	digital controller BETA RC 33-6001-16A , 9-24 V
47-321000-34	digital controller BETA DC 32-x651-II D.I., 230 V + alarm
47-321000-35	digital controller BETA DC 32-x601-16A, 230 V

Code	Description
<b>Temperature sensors- stainless steel housing / PVC cable</b>	
47-321000-06	temperature sensor PTC, l = 2 m, PVC, stainless steel housing 6x30 mm, S6-R, BETA
47-321000-12	temperature sensor PTC, l = 15 m, PVC, stainless steel housing 6x30 mm, S6-R, BETA
47-321000-13	temperature sensor PTC, l = 10 m, PVC, stainless steel housing 6x30 mm, S6-R, BETA
47-321000-17	temperature sensor PTC, l = 5 m, PVC, stainless steel housing 6x30 mm, S6-R, BETA
<b>Temperature sensors - stainless steel housing / silicon cable</b>	
47-321000-19	temperature sensor PTC, l = 2 m, silicon cable, stainless steel housing 6x30 mm, S6-S, BETA
<b>Temperature sensors - chrome housing / silicon cable</b>	
47-321000-20	temperature sensor PTC, l = 2 m, silicon cable, chrome housing 6x100 mm, 300-S, BETA
<b>Temperature sensors - VETROTEX</b>	
47-321000-21	temperature sensor PTC, l = 2 m, vetrotex, chrome housing 6x100 mm, 300-V, BETA
<b>Temperature sensors - thermoplastic</b>	
47-321000-22	temperature sensor PTC, l = 1,5 m, termoplastic, housing 5x20 mm, IP68, BETA
47-321000-23	temperature sensor NTC, l = 1,5 m, termoplastic, housing 5x20 mm, IP68, BETA
<b>Accessories</b>	
47-321000-07	transformer TF3, 3VA, 230/12Vac, 50/60 Hz, BETA
47-321000-36	plastic box for wall mounting, for RC, DC controllers, diameters: 108x108x90 mm, IP55

#### 47-321000-00 - type RD-6001

Application: to control coldrooms, display cabinets and vine cabinets

Power supply: 230V, 50 Hz

Diameters: 70 x 28 x 78 mm

Mounting: panel

Connection: cable with a cross section up  $\varnothing$  2,5 mm<sup>2</sup>

Working temperature: -55 to +168°C

Humidity: 30 to 90 % RH (non condensing)

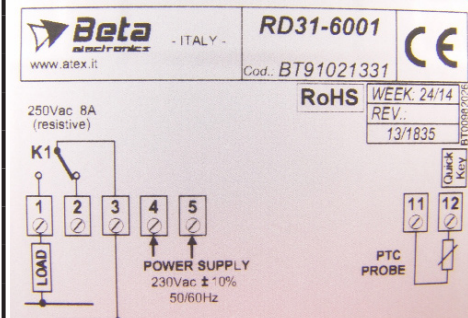
Analog inputs: 1x PTC

Digital inputs: 1x digital

Serial port: -

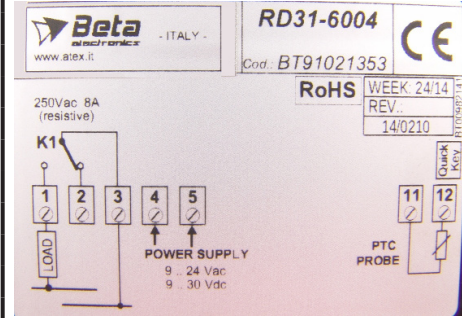
Digital outputs: 1x rele: 8/16A 1/2 250V SPDT

Adjustable output: -

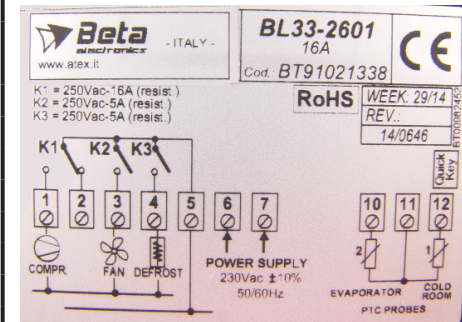


**47-321000-14 - type RD-6004**

Application: to control coldrooms, display cabinets and vine cabinets  
 Power supply: 12 - 24V  
 Diameters: 70 x 28 x 78 mm  
 Mounting: panel  
 Connection: cable with a cross section up to  $\varnothing$  2,5 mm<sup>2</sup>  
 Working temperature: -55 to +168 °C  
 Humidity: 30 to 90 % RH (non condensing)  
 Analog inputs: 1x PTC  
 Digital inputs: 1x digital input  
 Serial port:  
 Digital output: 1 x rele: 8/16A 250V SPDT


**47-321000-03 - type BL 33-2601-16A**

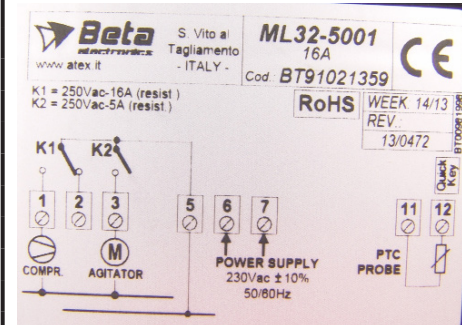
Application: to control coldrooms  
 Power supply: 230V  
 Diameters: 70 x 28 x 78 mm  
 Mounting: panel  
 Connection: cable with a cross section up to  $\varnothing$  4 mm<sup>2</sup>  
 Working temperature: -50 to +55 °C  
 Humidity: 30 to 90 % RH (non condensing)  
 Analog inputs: 1-2x PTC  
 Digital inputs:  
 Serial port:  
 Digital output: 3 x reles: 8A 250V SPST, 5A 250V SPST, 5A 250V SPST

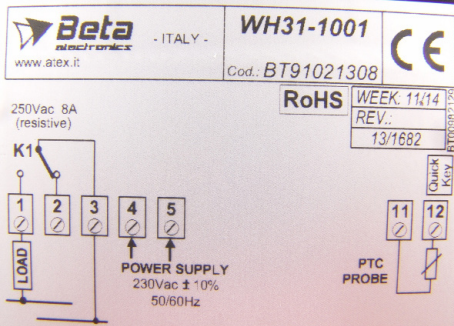
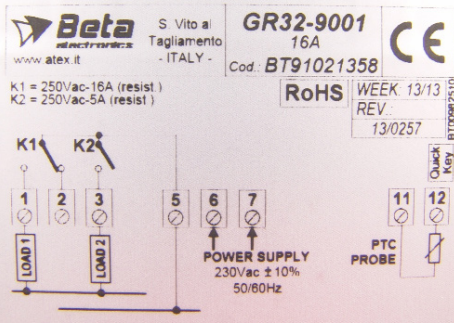
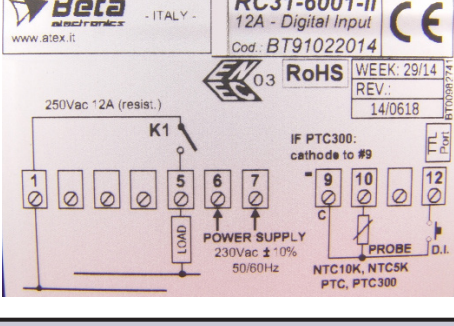
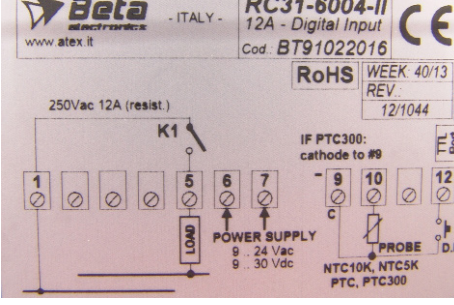

**47-321000-04 - type B L43-2601-16A**

Application: to control coldrooms  
 Power supply: 115-230V  
 Diameters: 70 x 90 x 58 mm  
 Mounting: DIN rail  
 Connection: cable with a cross section up to  $\varnothing$  4 mm<sup>2</sup>  
 Working temperature: -55 to +55 °C  
 Humidity: 30 to 90 % RH (non condensing)  
 Analog inputs: 1-2x PTC  
 Digital inputs:  
 Serial port:  
 Digital output: 4 x reles: 16A 250V SPDT, 8A 250V SPDT, 2x 5A 250V SPST


**47-321000-08 - type ML 32-5001-16A**

Application: milk tanks  
 Power supply: 230V  
 Diameters: 70 x 28 x 78 mm  
 Mounting: panel  
 Connection: cable with a cross section up to  $\varnothing$  2,5 mm<sup>2</sup>  
 Working temperature: -55 to +150 °C  
 Humidity: 30 to 90 % RH (non condensing)  
 Analog input: 1x PTC  
 Digital input:  
 Serial port:  
 Digital output: 2 x reles: 8A 250V SPDT, 5A 250V SPST



<p><b>47-321000-09 - type WH 31-1001</b></p> <p>Application:            Power supply: 230V            Diameters: 70 x 28 x 78 mm            Mounting: panel            Connection: cable with a cross section up <math>\varnothing</math> 2,5 mm<sup>2</sup>            Working temperature: -50 - +99°C            Humidity: 20 to 85 % RH (non condensing)            Analog inputs: 1x PTC            Digital inputs:            Serial port:            Digital output: 1x rele: 8A 250V SPDT</p>	<p style="text-align: right;"><b>567,00</b></p>  <p>The diagram shows a 5-pin terminal block with terminals 1-5. Terminal 1 is connected to a load. Terminal 2 is connected to a 230Vac 8A resistive load. Terminal 3 is connected to a 230Vac ± 10% 50/60Hz power supply. Terminal 4 is connected to a PTC probe. Terminal 5 is connected to a PTC probe. A relay K1 is connected between terminals 1 and 2. A PTC probe is connected between terminals 11 and 12. The diagram includes the Beta logo, model WH31-1001, code BT91021308, and RoHS compliance information.</p>
<p><b>47-321000-11 - type GR 32-4001</b></p> <p>Application:            Power supply: 230V            Diameters: 70 x 28 x 78 mm            Mounting: panel            Connection: cable with a cross section up <math>\varnothing</math> 2,5 mm<sup>2</sup>            Working temperature: -55 - +55°C            Humidity:            Analog inputs: 1x PTC            Digital inputs:            Serial port:            Digital outputs: 2x reles: 8A 250V SPDT, 5A 250V SPST</p>	<p style="text-align: right;"><b>903,00</b></p>  <p>The diagram shows a 7-pin terminal block with terminals 1-7. Terminal 1 is connected to a load. Terminal 2 is connected to a 250Vac-16A resistive load. Terminal 3 is connected to a 250Vac-5A resistive load. Terminal 5 is connected to a 230Vac ± 10% 50/60Hz power supply. Terminal 6 is connected to a PTC probe. Terminal 7 is connected to a PTC probe. A relay K1 is connected between terminals 1 and 2. A relay K2 is connected between terminals 3 and 4. A PTC probe is connected between terminals 11 and 12. The diagram includes the Beta logo, model GR32-9001, code BT91021358, and RoHS compliance information.</p>
<p><b>47-321000-30 - type RC 31-6001-16A</b></p> <p>Application:            Power supply: 230V            Diameters: 76 x 28 x 63 mm            Mounting: panel            Connection: cable with a cross section up <math>\varnothing</math> 2,5 mm<sup>2</sup>            Working temperature: -50 - +300°C            Humidity: 30 to 90 % RH (non condensing)            Analog outputs: 1x NTC/PTC            Digital inputs: 1x            Serial port: TTL for key            Digital outputs: 2x reles: 8A 250V SPDT, 5A 250V SPST</p>	<p style="text-align: right;"><b>630,00</b></p>  <p>The diagram shows a 12-pin terminal block with terminals 1-12. Terminal 1 is connected to a 250Vac 12A resistive load. Terminal 5 is connected to a 230Vac ± 10% 50/60Hz power supply. Terminal 6 is connected to a PTC probe. Terminal 7 is connected to a PTC probe. A relay K1 is connected between terminals 1 and 5. A PTC probe is connected between terminals 9 and 10. A PTC probe is connected between terminals 11 and 12. The diagram includes the Beta logo, model RC31-6001-II, code BT91022014, and RoHS compliance information.</p>
<p><b>47-321000-31 - type RC 31-6004-16A</b></p> <p>Application:            Power supply: 9 - 24V            Diameters: 76 x 28 x 63 mm            Mounting: panel            Connection: cable with a cross section up <math>\varnothing</math> 2,5 mm<sup>2</sup>            Working temperature: -50 - +300°C            Humidity: 30 to 90 % RH (non condensing)            Analog inputs: 1x NTC/PTC            Digital inputs: 1x            Serial port: TTL for key            Digital outputs: 2x reles: 8A 250V SPDT, 5A 250V SPST</p>	<p style="text-align: right;"><b>693,00</b></p>  <p>The diagram shows a 12-pin terminal block with terminals 1-12. Terminal 1 is connected to a 250Vac 12A resistive load. Terminal 5 is connected to a 9 - 24 Vac 9 - 30 Vdc power supply. Terminal 6 is connected to a PTC probe. Terminal 7 is connected to a PTC probe. A relay K1 is connected between terminals 1 and 5. A PTC probe is connected between terminals 9 and 10. A PTC probe is connected between terminals 11 and 12. The diagram includes the Beta logo, model RC31-6004-II, code BT91022016, and RoHS compliance information.</p>

<p><b>47-321000-47-32- type RC 33-6001-16A</b></p> <p>Application:                      Power supply: 230V                      Diameters: 76 x 28 x 63 mm                      Mounting: panel                      Connection: cable with a cross section up <math>\varnothing</math> 2,5 mm<sup>2</sup>                      Working temperature: -50 - +150°C                      Humidity: 30 to 90 % RH (non condensing)                      Analog inputs: 2x NTC/PTC                      Digital inputs: 1x                      Serial port: TTL for key                      Digital outputs: 3x reles: 12A 250V SPST, 8A 250V SPDT, 5A 250V SPST</p>	<p style="text-align: right;"><b>693,00</b></p>
<p><b>47-321000-33 - type RC 33-6001-16A</b></p> <p>Application:                      Power supply: 9 - 24V                      Diameters: 76 x 28 x 63 mm                      Mounting: panel                      Connection: cable with a cross section up <math>\varnothing</math> 2,5 mm<sup>2</sup>                      Working temperature: -50 - +150°C                      Humidity: 30 to 90 % RH (non condensing)                      Analog inputs: 2x NTC/PTC                      Digital inputs: 1x                      Serial port: TTL for key                      Digital outputs: 3x reles: 12A 250V SPDT, 8A 250V SPDT, 5A 250V SPDT</p>	<p style="text-align: right;"><b>756,00</b></p>
<p><b>47-321000-34 - type DC 32-x651-II D.I.</b></p> <p>Application:                      Power supply: 230V                      Diameters: 76 x 28 x 63 mm                      Mounting: panel                      Connection: cable with a cross section up <math>\varnothing</math> 2,5 mm<sup>2</sup>                      Working temperature: -50 - +150°C                      Humidity: 30 to 90 % RH (non condensing)                      Analog inputs: 2x NTC/PTC                      Digital inputs: 1x                      Serial port: TTL for key                      Digital outputs: 3x reles: 12A 250V SPDT, 8A 250V SPDT, 5A 250V SPDT</p>	<p style="text-align: right;"><b>735,00</b></p>
<p><b>47-321000-35 - type DC 47-32- x601-16A</b></p> <p>Application:                      Power supply: 230V                      Diameters: 76 x 28 x 63 mm                      Mounting: panel                      Connection: cable with a cross section up <math>\varnothing</math> 2,5 mm<sup>2</sup>                      Working temperature: -50 - +150°C                      Humidity: 30 to 90 % RH (non condensing)                      Analog inputs: 2x NTC/PTC                      Digital inputs: 1x                      Serial port: TTL for key                      Digital outputs: 2x reles: 12A 250V SPDT, 8A 250V SPDT</p>	<p style="text-align: right;"><b>672,00</b></p>

**Electronic  
controllers**

Dixell

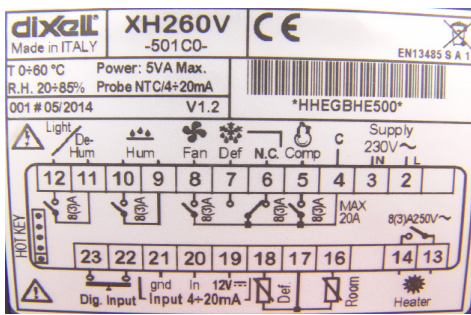
Code	Type	Description
47-32XH260V	XH260V-501C0	temperature and humidity controller XH 260 V DIXELL, power supply: 230 V, input: 1xNTC, probe with output 4-20 mA, digital input: 1 free voltage, outputs: , SPDT / SPST 8(3)A 250 V
47-32XR02CX	XR02CX-5N0C0	digital controller XR 02 CX DIXELL, power supply: 230 V, input: 1 NTC, digital input: 1 free voltage, outputs: compressor 20(8)A 250V SPST / 8(3)A 250V SPST
47-32XR06CX	XR06CX-5N0C0	digital controller with defrosts and fan management XR 06 CX DIXELL, power supply: 230 V, inputs: 2 x NTC, digital input: 1 free voltage, output: compressor, defrost, fan 8(3)A / 12 and 20(8)A / 5,8(3)A 250V SPST, 8(3)A 250V SPDT
47-32XR10CX	XR10CX-5N0C1	digital controller with cooling or heating action XR 10 CX DIXELL, power supply: 230 V, inputs: 3 x PTC / NTC, digital input: 1 free voltage, output: compressor 8(3)A / 12 and 20(8)A 250V SPST
47-32XR20CX-12V	XR20CX-12V	digital controller with off cycle defrost XR 20 CX DIXELL, power supply: 12 V, inputs: 3 x PTC / NTC, digital output: 1 free voltage, output: compressor 8(3) A / 12 and 20(8)A 250V SPST
47-32XR20CX	XR20CX-5N0C1	digital controller with off cycle defrost XR 20 CX DIXELL, power supply: 230 V, input: 3 x PTC / NTC, digital input: 1 free voltage, output: compressor 8(3) A / 12 and 20(8)A 250V SPST
47-32XR20D	XR20D-5N0C1	digital controller with off cycle defrost XR 20 D DIXELL, power supply 230 V, input: 1 x PTC / NTC, digital input: 1 free voltage, output: compressor 8(3)A SPDT or 20(8)A 250V SPST, mounting: DIN rail
47-32XW20L	XW20L	digital controller with off cycle defrost XW 20 L DIXELL, power supply: 230 V, input: 4 x PTC / NTC, digital input: 2 free voltage, output: compressor, light, 20(8)A 250V SPST, 8(3)A 250V SPDT,
47-32XW20LS	XW20LS-5N0D1-X	digital controller multifunctional XW 20 LS DIXELL, power supply: 230 V, input: 2 x PTC / NTC, output: compressor, light 20(8)A 250V SPST, 8(3)A 250V SPST, stainless steel frame
47-32XW20VS	XW20VS-5N0C0	digital controller Wing XW 20 VS DIXELL, power supply: 12 V, input: 1 x NTC / PTC, output: compressor, light 20(8)A 250V SPST / 8(3)A 250V SPST, 16(6)A 250V SPST, total current on loads MAX. 20A
47-32XR30CX	XR30CX-5P0C1	digital controller with off cycle defrost and AUX relay XR 30 CX DIXELL, power supply: 230 V, input: up to 4 x PTC / NTC, digital input: 1 free voltage, output: compressor, AUX 8(3)A 250V, 20(8)A 250V SPST, 8(3)A 250V SPDT
47-32XR30D	XR30D-5N0C0	digital controller with off cycle defrost XR 30 D DIXELL, power supply: 230 V, input: 1 x PTC / NTC, digital input: 1 free voltage, output: compressor, second relay: 8(3)A 250V, 20(8)A 250V SPST, 8(3)A 250V SPDT, mounting DIN rail
47-32XR40CX	XR40CX-5N0C1	digital controller with defrost management XR 40 CX DIXELL, 230 V, input: 4 x PTC / NTC, digital input: 1 free voltage, output: compressor, defrost 8(3), 12, and 20(8)A 250V SPST, 8(3)A 250V SPDT
47-32XR60CX-12V	XR60CX-0N0C0	digital controller with defrost and fans management XR 60 CX DIXELL, power supply: 12 V, input: 4 x PTC / NTC, digital input: 1 free voltage, output: compressor, defrost, fans: 8(3), 16(6)A 250V SPST, 8(3)A 250V SPDT, 5,8(3) A 250V SPST
47-32XR60CX	XR60CX-5N0C1	digital controller with defrost and fans management XR 60 CX DIXELL, power supply: 230 V, input: 4 x PTC / NTC, digital input: 1 free voltage, output: compressor, defrost, fans: 8(3), 16(6)A 250V SPST, 8(3)A 250V SPDT, 5,8(3)A 250V SPST
47-32XR60D	XR60D-5P0C1	digital controller with defrost and fans management XR 60 CX DIXELL, power supply: 230 V, input: 2 x PTC / NTC, digital input: 1 free voltage, output: compressor, defrost, fans: 8(3), 16(6)A 250V SPST, 8(3)A 250V SPDT, 5,8(3)A 250V SPST, mounting: DIN rail
47-32XR60D-24	XR60D-2N0C1	digital controller with defrost and fans management XR 60 CX DIXELL, power supply: 24 V, input: 2 x PTC / NTC, digital input: 1 free voltage, output: compressor, defrost, fans: 8(3), 16(6)A 250V SPST, 8(3)A 250V SPDT, 5,8(3) A 250V SPST, mounting: DIN rail
47-32XW60K-SET	XW60K-SET	digital controller XW 60 K DIXELL, set, keyboard V620, adapter
47-32XW60L	XW60L	digital controller for medium-low temperature XW 60 L DIXELL, power supply: 230 V, input: 1 x PTC / NTC, digital input: 1 free voltage, output: , 20(8)A 250V SPST, 3 x 8(3)A 250V SPDT



Code	Type	Description
47-32XW60LS	XW60LS-5N0D1X	digital controller for medium-low temperature XW 60 LS DIXELL, power supply: 230 V, input: 2 x NTC, digital input: 1 free voltage, output: 20(8)A 250V SPST, 2 x 8(3)A 250V SPST
47-32XR70CX-K	XR70CX-5Q2C3	digital controller with defrost and fan management XR 70 CX 5 DIXELL, power supply: 230 V, blue display, input: 4 x NTC, digital input: 1 free voltage, output: compressor, defrost, fan, aux: 8(3), 12 and 20(8)A 250V SPST, 8(3)A 250V SPDT, 5,8(3)A 250V SPST
47-32XR70CX	XR70CX-5N0C3	digital controller with defrost and fan management XR 70 CX 5 DIXELL, power supply: 230 V, input: 4 x NTC, digital input: 1 free voltage, output: compressor, defrost, fan, aux: 8(3), 12 and 20(8)A 250V SPST, 8(3)A 250V SPDT, 5,8(3)A 250V SPST
47-32XR70D	XR70D-5N0C1	digital controller with defrost and fan management XR 70 CX 5 DIXELL, power supply: 230 V, input: 4 x NTC, digital input: 1 free voltage, output: compressor, defrost, fan, aux: 8(3), 12 and 20(8)A 250V SPST, 8(3)A 250V SPDT, 5,8(3)A 250V SPST, mounting: DIN rail
47-32XR72CX	XR72CX-5N0C0	digital controller with defrost and fan management XR 72 CX DIXELL, power supply: 230 V, input: 4 x NTC / PTC, digital input: 1 free voltage, output: compressor, defrost, fan, compressor 2: 4 x 16(6)A 250V SPST
47-32XR75CX	XR75CX-5N7I3	digital controller for medium-low temperature XR 75 CX DIXELL, power supply: 230 V, input: 4 x NTC / PT1000, digital input: 1 free contact, output: compressor, defrost, fan, aux: 8(3)A / 16(6)A 250V SPST, 8(3)A 250V SPDT, 5A 250V SPST, 8(3)A SPDT / 16A SPST 250V
47-32XR80CX	XR80CX-5N0C1	milk tank controller XR 80 CX DIXELL, power supply: 230 V, input: 1 x NTC / PTC, output: compressor, agitator: 20(8)A 250V SPST, 8(3)A 250V SPDT
47-32XR120C	XR120C	digital controller for low temperature with built-in RS485 XR 120 C DIXELL, power supply: 230 V, input: 2 x NTC / PTC, output: compressor, defrost, fans, alarm 8(3)A 250V SPDT, 20(8)A 250V SPST
47-32XR170D	XR170D	digital controller for medium-low temperature with built-in RS485 XR 170 D DIXELL, power supply: 230 V, input: 3 x NTC / PTC, output: compressor, defrost, fans, alarm: 4 x 8(3)A 250V SPST, 8(3)A 250V SPDT, other: 16A 250V SPST, mounting: DIN rail
47-32XT120C	XT120C-0C0TU	two stages digital controller with multi probe input XT 120 C DIXELL, power supply: 12 V, input: 1 x NTC / PTC / PT100 / Tc J / K / S, output: 2 x 8(3)A 250V, 8(3)A 250V
47-32E51AFPS	E51AFPS	digital controller E51A FPS DIXELL, power supply: 12 V, input: NTC / PTC, output: 16A 250V SPDT / 16A 250V SPST
47-32IC111CX	IC111CX	digital controller for chillers and heat pumps IC 111 CX DIXELL, input: 12 V, input: 2 x NTC, 1 x NTC / 4-20 mA (adjustable), 1 x NTC / digital input: high pressure, low pressure, 4 adjustable, output: 3 x 8(3)A, 1 x 8(3)A adjustable
47-32IC121CX	IC121CX	digital controller for chillers and heat pumps IC 121 CX DIXELL, power supply: 12 V, input: 2 x NTC, 1 x NTC / 4-20 mA (adjustable), 1 x NTC / digital input: high / low pressure, 4 adjustable, output: 3 x 8(3)A and 2 x 8(3)A adjustable
47-32IC121CX-11130	IC121CX-11130	digital controller for chillers and heat pumps IC 121 CX - 11130 DIXELL, power supply: 24 V, input: 2 x NTC, 1 x NTC / 4-20 mA (adjustable), 1 x NTC / digital input: high / low pressure, 4 adjustable, output: 3 x 8(3)A and 2 x 8(3)A adjustable
47-32IC121L-50103	IC121L-50103	digital controller for chillers and heat pumps IC 121 CX - 50103 DIXELL, power supply: 24 V, input: 2 x NTC, 1 x NTC / 4-20 mA (adjustable), 1 x NTC / digital input: high / low pressure, 4 adjustable, output: 3 x 8(3)A and 2 x 8(3)A adjustable
47-32XR10CX1H	XR10CX 1H	digital controller XR10CX 1H DIXELL, power supply: 24 V, input: 3x NTC, digital input: free voltage, output: 8(3), 12 and 20(8)A 250 V
47-32XR170C	XR170C	digital controller for medium-low temperatures with built-in RS485 XR170C DIXELL, power supply: 12 V, input: 3 x NTC / PTC, digital input: free voltage, 1 x door contact, output: 4 x SPST 8(3)A, 2 x SPDT 8(3)A
47-32XT120C-230	XT120C-230	two stages digital controller with multi probe input XT120C-230 DIXELL, power supply: 230 V, input: NTC / PTC, digital input: free voltage, output: 2 x SPDT 8(3)A 250 V
47-32XT11S	XT11S-0200-NTC	digital thermometer, power supply: 12 V, input: NTC
47-32XWEB300D-18	XWEB300D-18	monitoring system XWEB300D-18 DIXELL, power supply: 230 V, to manage up to 18 controllers, mounting: DIN rail

Code	Description
<b>Pressure transmitters</b>	
47-32PAA-21G	pressure transmitter DIXELL PAA-21G, -0.5 - 11 [bar], 1/4" SAE
47-32PP011	pressure transmitter DIXELL PP011, -0,5 to -11 [bar]
47-32PP030	pressure transmitter DIXELL PP030, 0 - 30 [bar]
47-32PT5-07M	pressure transmitter ALCO PT5-07M, -0,8 - 7 [bar], 802350
47-32PT5-18M	pressure transmitter ALCO PT5-18M, 0 - 18 [bar], 802351
47-32PT5-30M	pressure transmitter ALCO PT5-30M, 0 - 30 [bar], 802352
<b>Humidity probes</b>	
47-32XH20P	humidity probe DIXELL XH20P
<b>Temperature probes - thermoplastic</b>	
47-32XR-NG6-1,5	temperature probe NTC, l = 1,5 m, thermoplastic, probe 6*15, IP67, NG6, DIXELL
47-32XR-NG6-3	temperature probe NTC, l = 3 m, thermoplastic, probe 6*15, IP67, NG6, DIXELL
47-32XR-NG6K-1,5	temperature probe NTC, l = 1,5 m, thermoplastic, probe 6*15, IP68, NG6K, DIXELL
<b>Temperature probes - silicon cable / stainless probe</b>	
47-32XR-S6S-1,5	temperature probe PTC, l = 1,5 m, silicon, stainless steel probe 6 x 40 mm, S6.SH, DIXELL
47-32XR-S6S-2	temperature probe PTC, l = 2 m, silicon, stainless steel probe 6 x 40 mm, S6.S, DIXELL
47-32XR-S6SH-1,5	temperature probe PTC, l = 1,5 m, silicon, stainless steel probe 6 x 40 mm, S6.SH, DIXELL
47-32XR-S6SH-2	temperature probe PTC, l = 2 m, silicon, stainless steel probe 6 x 40 mm, S6.SH, DIXELL

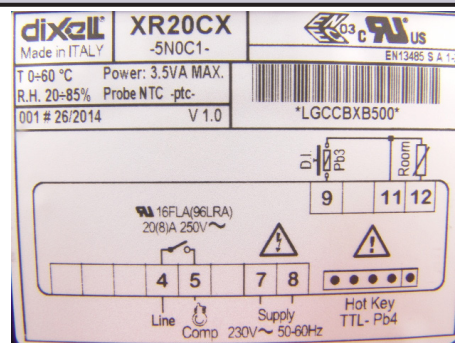
Code	Description
47-32XJ485CX	serial interface DIXELL converts the TTL into a RS485 signal + cable 0,2 m
47-32XWEB300D-18	monitoring system for DIN rail DIXELL, XWEB300D-18, to manage up to 18 controllers
47-32XR-KEY	key for transferring parameters for Dixell controllers
47-32IC-CAB/CJ15	cable assembly 1,5m CAB/CJ15, DIXELL
47-32IC-CW15	cable assembly 1,5m CW15, DIXELL, IC110-121C
47-32IC-CWC15	cable assembly 1,5m CWC15, DIXELL
47-32XR-C-BOX	box C-BOX, for wall mounting, diameters of hole for controller 29x71 mm
47-32XR-PA-CX	anti-condensing front cover MDP/CX Dixell CX
47-32XR-MDP	terminal cover Dixell XR..CX, diameter 47-32x 72 mm
47-32IC-CW0.35-KIT	cable assembly for IC110-121C, cable lenght: 0,35 m

<b>47-32XH260V</b>	
<p>Application: temperature and humidity controller            Power supply: 230 V +/- 10% 50/60Hz            Diameters: 100 x 64 x 76 mm            Mounting: cut-out: 56 x 72 mm / 4 screws Ø 3 mm - distance 40 mm            Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup>/ faston 6,3 mm            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog inputs: 1 NTC, sensor with output 4 - 20 mA            Digital input: 1 free voltage            Digital output: 4 x 8(3) A 250V SPST, 2 x 8(3) A 250V SPDT            Other output: alarm (optional)            Measuring range: NTC: -40 to +110°C</p>	 <p>The technical drawing shows a terminal block with 23 terminals. Labels include: Light, De-Hum, Hum, Fan, Def, N.C. Comp, Supply 230V IN, LL, MAX 20A, 8(3)A 250V~, Dig. Input, Input 4-20mA, Def, Room, Heater. It also features a DIXELL logo, model XH260V, CE mark, and other technical specifications.</p>

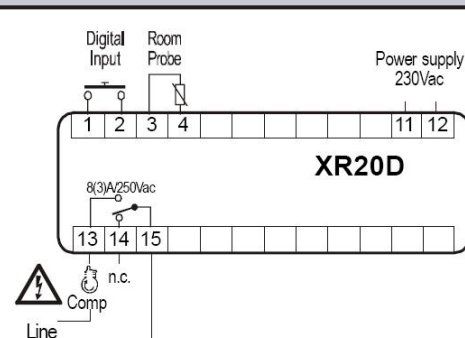
<p><b>47-32XR02CX</b></p> <p>Application: cooling application          Power supply: 230 V +/- 10% 50/60Hz          Diameters: 32 x 74 x 50 mm          Mounting: panel cut-out: 71 x 29 mm          Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup> wiring          Operating temperature: 0 - 60 °C          Relative humidity: 20 - 85 % (non condensing)          Analog input: 1 NTC          Digital input: 1 free voltage          Relay output: compressor 20(8) A 250V SPST, 8(3) A 250V SPST          Measuring range: NTC: -40 to +110°C</p>	
<p><b>47-32XR06CX</b></p> <p>Application: digital controller with defrost and fan management          Power supply: 230 V +/- 10% 50/60Hz          Diameter: 32 x 74 x 60 mm          Mounting: panel cut-out: 71 x 29 mm          Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup> wiring          Operating temperature: 0 - 60 °C          Relative humidity: 20 - 85 % (non condensing)          Analog inputs: 2 x NTC          Digital inputs: 1 free voltage          Relay output: compressor, defrost, fan: 8(3), 12 and 20(8) A 250V SPST, 5,8(3) A 250V SPST, 8(3) A 250V SPDT          Measuring range: NTC: -40 to +110°C</p>	
<p><b>47-32XR10CX</b></p> <p>Application: cooling and heating applications          Power supply: 230, 100 V +/- 10% 50/60Hz          Diameters: 32 x 74 x 60 mm          Mounting: panel cut-out: 71 x 29 mm          Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup> wiring          Operating temperature: 0 - 60 °C          Relative humidity: 20 - 85 % (non condensing)          Analog inputs: 3 x PTC / NTC          Digital inputs: 1 free voltage          Relays output: compressor 8(3), 12 and 20(8) A 250V SPST          Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32XR20CX-12V</b></p> <p>Application: controller with off cycle defrost          Power supply: 12/24 V +/- 10% 50/60Hz          Diameters: 32 x 74 x 60 mm          Mounting: panel - cut-out: 71 x 29 mm          Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup> wiring          Operating temperature: 0 - 60 °C          Relative humidity: 20 - 85 % (non condensing)          Analog input: 3 x NTC / PTC          Digital input: 1 free voltage          Relay output: compressor 8(3), 12 and 20(8) A 250V SPST          Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	

**47-32XR20CX**

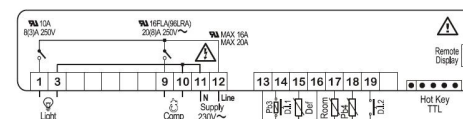
Application: controller with off cycle defrost  
 Power supply: 230, 100 V +/- 10% 50/60Hz  
 Diameter: 32 x 74 x 60 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog input: 3 x NTC / PTC  
 Digital input: 1 free voltage  
 Relay output: compressor 8(3), 12 and 20(8) A 250V SPST  
 Measuring temperature: NTC: -40 to +110°C, PTC: -50 to +150°C

**47-32XR20D**

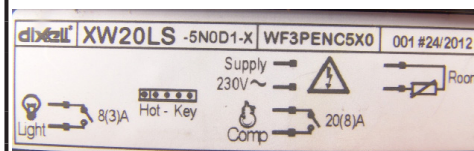
Application: controller with off cycle defrost  
 Power supply: 230, 100 V +/- 10% 50/60Hz  
 Diameters: 4 moduls DIN 70 x 85 x 61 mm  
 Mounting: DIN rail  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog inputs: 1 x NTC / PTC  
 Digital inputs: 1 free voltage  
 Relay output: compressor 8(3) A 250V SPDT or 20(8) A 250V SPST  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C

**47-32XW20L**

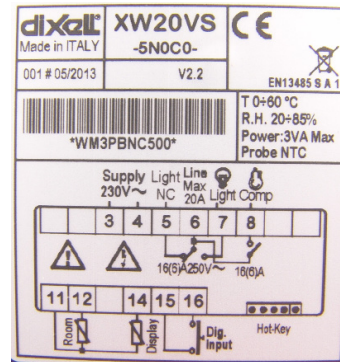
Application: controller with off cycle defrost  
 Power supply: 230 V +/- 10% 50/60Hz  
 Diameters: 38 x 185 x 76 mm  
 Mounting: panel cut-out: 31 x 150 / 2 screws Ø 3 mm - distance 165 mm  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring, fastons 6,3 mm  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog inputs: up to 4 NTC or PTC probes  
 Digital inputs: 2 free voltage  
 Relay output: total current on load max. 20 A, compressor, light, 20(8) A 250V SPST, 8(3) A 250V SPDT, Other output: buzzer - optional  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C

**47-32XW20LS**

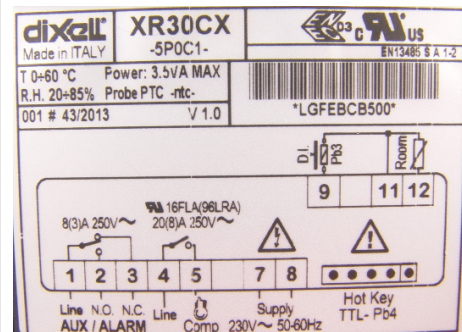
Application: normal or medium temperature, multifunctional  
 Power supply: 110 / 230 V +/- 10%  
 Diameters: 38 x 185 x 48 mm  
 Mounting: panel cut-out: 150 x 31 mm / 2 screws Ø 3 x 2 mm  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring, fastons 6,3 mm  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog inputs: 2 x NTC  
 Relay output: total current on loads max. 20 A, compressor, light 20(8) A 250V SPST, 8(3) A 250V SPST  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C

**47-32XW20VS**

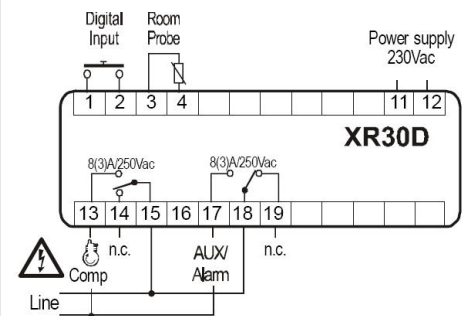
Application: for medium or normal temperatures, 2 relay output  
 Power supply: 230 V  
 Diameters: 100 x 64 x 76 mm  
 Mounting: panel cut-out: 56 x 72 mm / 2 screws Ø 3 x 2 mm - distance 40 mm  
 Connection: screw terminal block up to  $\leq 2,5 \text{ mm}^2$  wiring, fastons 6,3 mm  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog inputs: 1 x NTC / PTC  
 Relay outputs: total current on loads max. 20A, compressor, light 20(8) A 250V SPST / 8(3) A 250V SPST, 16(6) A 250V SPST  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C


**47-32XR30CX**

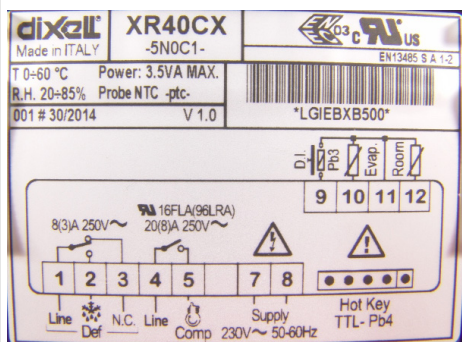
Application: with off cycle defrost and AUX relay  
 Power supply: 100 / 230 V +/- 10% 50/60Hz  
 Diameters: 32x 74 x 60 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: screw terminal block up to  $\leq 2,5 \text{ mm}^2$  wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog inputs: 3 x NTC / PTC  
 Digital input: 1 free voltage  
 Relay output: compressor, AUX: 8(3) A 250V, 20(8) A 250V SPST, 8(3) A 250V SPDT  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C

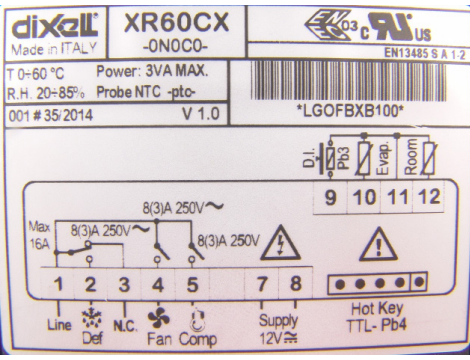
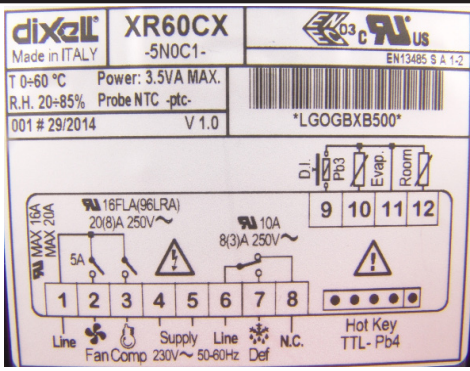
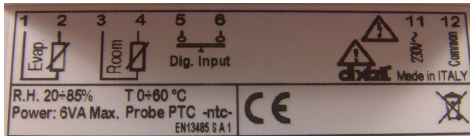
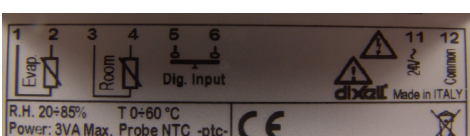

**47-32XR30D**

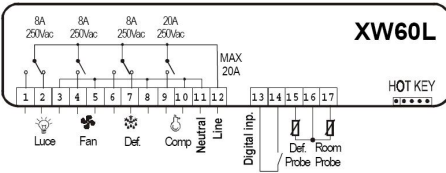
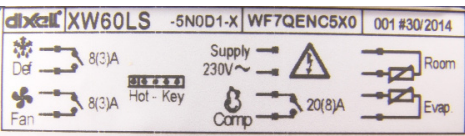
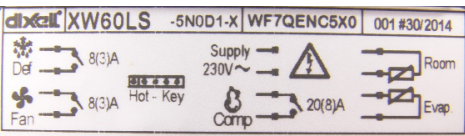
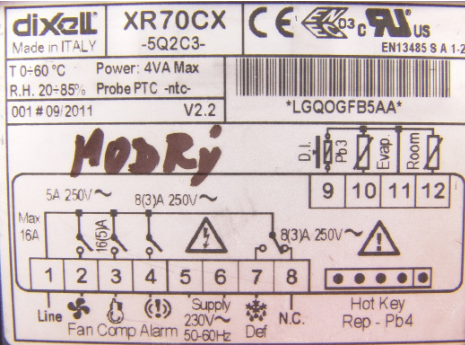
Application: with off cycle defrost and AUX relay  
 Power supply: 100 / 230 V +/- 10% 50/60Hz  
 Diameters: 70 x 85 x 61 mm 4 moduls DIN  
 Mounting: DIN rail  
 Connection: screw terminal block up to  $\leq 2,5 \text{ mm}^2$  wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog input: 1 x NTC / PTC  
 Digital input: 1 free voltage  
 Relay output: compressor, second relay, 8(3) A 250V, 20(8) A 250V SPST, 8(3) A 250V SPDT  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C


**47-32XR40CX**

Application: controller with defrost management  
 Power supply: 100 / 230 V +/- 10% 50/60Hz  
 Diameters: 32x 74 x 60 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: screw terminal block up to  $\leq 2,5 \text{ mm}^2$  wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog input: 4 x NTC / PTC  
 Digital input: 1 free voltage  
 Relay output: compressor, defrost 8(3), 12, and 20(8) A 250V SPST, 8(3) A 250V SPDT  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C

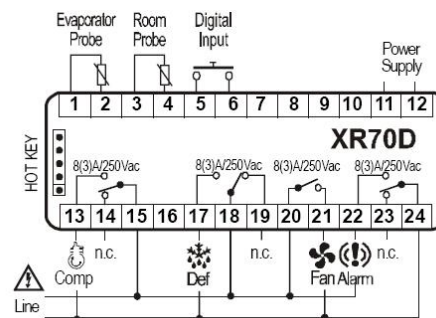


<p><b>47-32XR60CX-12V</b></p> <p>Application: controller with defrost and fans management            Power supply: 12, 24 V +/- 10% 50/60Hz            Diameters: 32 x 74 x 60 mm            Mounting: panel cut-out: 71 x 29 mm            Connection: screw terminal block up to <math>\leq 2,5</math> mm<sup>2</sup> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 4 x NTC / PTC            Digital input: 1 free voltage            Relay output: compressor, defrost, fan: 8(3), 16(6) A 250V SPST, 8(3) A 250V SPDT, 5,8(3) A 250V SPST            Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32XR60CX</b></p> <p>Application: controller with defrost and fans management            Power supply: 100, 230 V +/- 10% 50/60Hz            Diameters: 32 x 74 x 60 mm            Mounting: panel cut-out: 71 x 29 mm            Connection: screw terminal block up to <math>\leq 2,5</math> mm<sup>2</sup> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 4 x NTC / PTC            Digital input: 1 free voltage            Relay output: compressor, defrost, fan: 8(3), 16(6) A 250V SPST, 8(3) A 250V SPDT, 5,8(3) A 250V SPST            Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32XR60D</b></p> <p>Application: controller with defrost and fans management            Power supply: 100, 230 V +/- 10% 50/60Hz            Diameters: 70 x 85 x 61 mm, 4 moduls DIN            Mounting: DIN rail            Connection: screw terminal block up to <math>\leq 2,5</math> mm<sup>2</sup> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 2 x NTC / PTC            Digital input: 1 free voltage            Relay output: compressor: 8(3), 16(6) A 250V SPST, 8(3) A 250V SPDT, 5,8(3) A 250V SPST            Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32XR60D-24</b></p> <p>Application: controller with defrost and fans management            Power supply: 24 V +/- 10% 50/60Hz            Diameters: 70 x 85 x 61 mm 4 moduls DIN            Mounting: DIN rail            Connection: screw terminal block up to <math>\leq 2,5</math> mm<sup>2</sup> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 2 x NTC / PTC            Digital input: 1 free voltage            Relay output: compressor x 8(3) A 250V SPDT, 1 x 20(8) A 250V SPST, 1 x 8(3) A 250V SPST            Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	

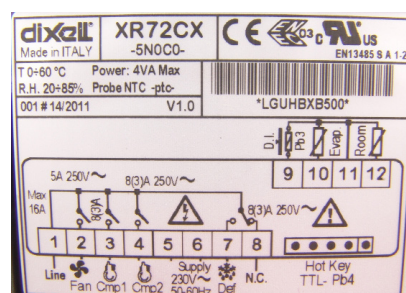
<p><b>47-32XW60L</b></p> <p>Application: controller for medium-low temperature refrigerant. app.            Power supply: 230 V +/- 10% 50/60Hz            Diameters: 38 x 185 x 76 mm            Mounting: panel cut-out: 31 x 150 mm / 2 screws Ø 3 mm - distance 165 mm            Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup> wiring, fastons 6,3 mm            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 2 x NTC / PTC            Digital input: 1 free voltage            Relay output: total current on loads max. 20 A, compressor, light, fans, defrost: 20(8) A 250V SPST, 3 x 8(3) A 250V SPDT            Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32XW60LS</b></p> <p>Application: controller for medium-low temperature refrigerant. app.            Power supply: 230 V +/- 10%            Distance: 38 x 185 x 48 mm            Mounting: panel cut-out: 31 x 150 mm / 2 screws Ø 3 x 2 mm - distance 165 mm            Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup> wiring, fastons 6,3 mm            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 2 x NTC            Relay output: total current on load max. 20 A, compressor, defrost, fan, light, 1 x 20(8) A 250V SPST, 2 x 8(3) A 250V SPST            Measuring range: NTC: -40 až +110°C</p>	
<p><b>47-32XR70CX-K - blue display</b></p> <p>Application: controller with defrost and fan management            Power supply: 100, 230 V +/- 10% 50/60Hz            Diameters: 32 x 74 x 60 mm            Mounting: panel cut-out: 71 x 29 mm            Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 4 x NTC / PTC            Relay output: compressor, defrost, fan, aux: 8(3), 12 a 20(8) A 250V SPST, 8(3) A 250V SPDT, 5,8(3) A 250V SPST            Other output: 8(3) A 250V SPDT / 16(6) A 250V SPST            Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32XR70CX</b></p> <p>Application: controller with defrost and fan management            Power supply: 100, 230 V +/- 10% 50/60Hz            Diameters: 32 x 74 x 60 mm            Mounting: panel cut-out: 71 x 29 mm            Connection: screw terminal block up to ≤ 2,5 mm<sup>2</sup> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 4 x NTC / PTC            Relay output: compressor, defrost, fan, aux: 8(3), 12 and 20(8) A 250V SPST, 8(3) A 250V SPDT, 5,8(3) A 250V SPST            Other output: 8(3) A 250V SPDT / 16(6) A 250V SPST            Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	

**47-32XR70D**

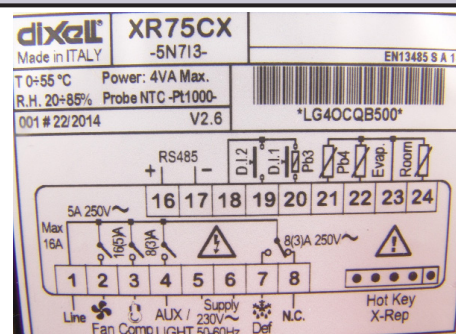
Application: controller with defrost and fan management  
 Power supply: 100/230 V +/- 10% 50/60Hz  
 Diameters: 70 x 85 x 61 mm 4 moduls DIN  
 Mounting: DIN rail  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog input: 2 x NTC / PTC  
 Digital input: 1 free voltage  
 Relay output: compressor, defrost, fan, alarm, 2nd compressor, A3 x 8(3) A 250V SPDT, 20(8) A 250V SPST, 8(3) A 250V SPST  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C

**47-32XR72CX**

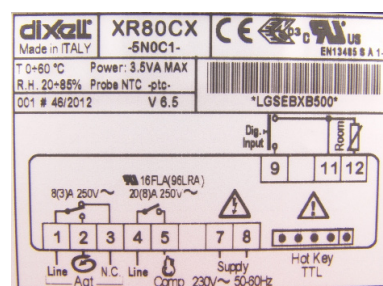
Application: controller with defrost and fan management  
 Power supply: 230 V +/- 10% 50/60Hz  
 Diameters: 32 x 74 x 60 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog input: 4 x NTC / PTC  
 Digital input: 1 free voltage  
 Relay output: compressor, defrost, fan, 2nd compressor 4 x 16(6) A 250V SPST  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C

**47-32XR75CX**

Application: medium or low temperature ventilated refrigerating units  
 Power supply: 230 V +/- 10% 50/60Hz  
 Diameters: 32 x 74 x 60 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog input: 4 x NTC / PT1000  
 Relay output: compressor, defrost, fan, aux: 8(3)A/16(6)A 250V SPST, 8(3)A 250V SPDT, 5A 250V SPST, 8(3)A SPDT/16A SPST 250V  
 Measuring range: NTC: -40 to +110°C / PT1000: -100 +150°C

**47-32XR80CX**

Application: milk tanks  
 Power supply: 230 V +/- 10% 50/60Hz  
 Diameters: 32 x 74 x 60 mm  
 Mounting: panel cut-out: 71 x 29 mm  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: 0 - 60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog output: 1 x NTC / PTC  
 Relay output: compressor, agitator: 20(8)A 250V SPST, 8(3)A 250V SPDT  
 Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C

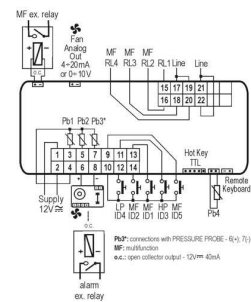




<p><b>47-32XR120C</b></p> <p>Application: low temperature system, built in RS485          Power supply: 230 V +/- 10% 50/60Hz          Diameters: 32 x 74 x 60 mm          Mounting: panel cut-out: 71 x 29 mm          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operation temperature: 0 - 60 °C          Relative humidity: 20 - 85 % (non condensing)          Analog inputs: 1 x NTC / PTC          Relay output: compressor, defrost, fans, (3)A 250V SPDT, 20(8)A 250V SPST          Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32XR170D</b></p> <p>Application: medium - low temperature system, built in RS485          Power supply: 230 V, 50 Hz          Diameters: 70 x 85 x 61 mm 4 moduls DIN          Mounting: DIN rail          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operation temperature: 0 - 60 °C          Relative humidity: 20 - 85 % (non condensing)          Analog input: 3 x NTC / PTC configurable          Relay output: compressor, defrost, fan, alarm: 2 x 8(3)A 250V SPST, 8(3)A 250V SPDT          Other output: 16A 250V SPST          Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32XT120C</b></p> <p>Application: two stage controller with multi probe input          Power supply: 230 V +/- 10% 50/60Hz          Diameters: 32 x 74 x 60 mm          Mounting: panel cut-out: 71 x 29 mm          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: 0 - 60 °C          Relative humidity: 20 - 85 % (non condensing)          Analog input: 1 x NTC / PTC / PT100 / Tc J / K / S          Relay output: 3 x 8(3)A 250V          Measuring range: NTC: -40 to +110°C, PTC: -50 to +150°C</p>	
<p><b>47-32E51AFPS</b></p> <p>Application: cooling / heating          Power supply: 12 V          Diameters: 33 x 65 x 50 mm          Mounting: panel cut-out: 25 x 58 mm          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: 0 - 50 °C          Relative humidity: 30 - 95 % (non condensing)          Analog input: 1 x NTC / PTC          Relay output: 16A 250V SPDT / 16A 250V SPST          Measuring range: NTC: -50 to +109°C, PTC: -50 to +150°C</p>	

**47-32IC111CX**

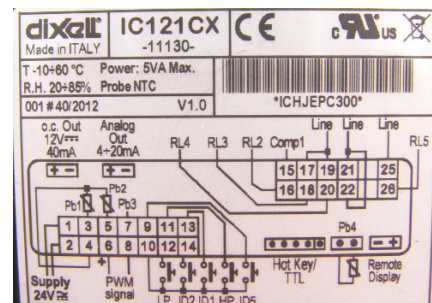
Application: chiller / heat pump  
 Power supply: 12 V  
 Diameters: 32 x 74 mm  
 Mounting: panel  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: -10 to +60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog inputs: 4 x NTC (adjustable)  
 Digital input: 4 adjustable  
 Relay outputs: 4/5 depending on model SPDT 5(3)A, 250Vac  
 Measuring range: NTC: -40 to +110°C,  
 pressure traducers: 0 to 50 bar

**IC110CX - IC111CX****47-32IC121CX**

Application: chiller / heat pump  
 Power supply: 12 V  
 Diameters: 32 x 74 mm  
 Mounting: panel  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: -10 až +60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog inputs: 4 x NTC (adjustable)  
 Digital input: 4 adjustable  
 Relay outputs: 4/5 depending on model SPDT 5(3)A, 250Vac  
 Measuring range: NTC: -40 to +110°C,  
 pressure traducers: 0 to 50 bar

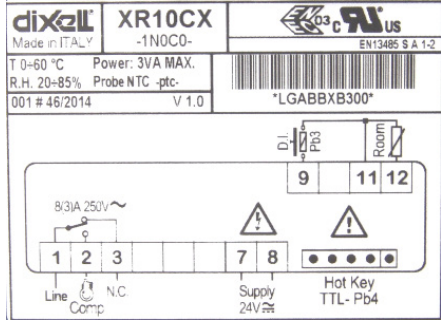
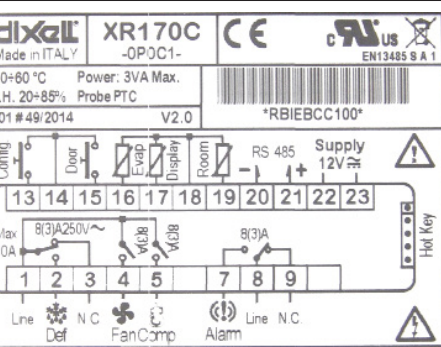
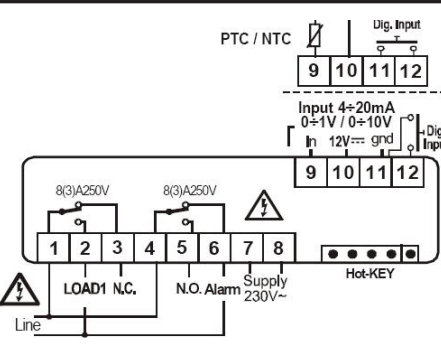
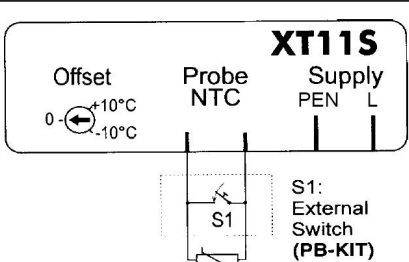
**47-32IC121CX-11130**

Application: chiller / heat pump  
 Power supply: 12 V  
 Diameters: 32 x 74 mm  
 Mounting: panel  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: -10 to +60 °C  
 Relative humidity: 20 - 85 % (non condensing)  
 Analog inputs: 4 x NTC (adjustable)  
 Digital input: 4 adjustable  
 Relay outputs: 4/5 depending on model SPDT 5(3)A, 250Vac  
 Measuring range: NTC: -40 to +110°C,  
 pressure traducers: 0 to 50 bar

**47-32XWEB300D-18**

Application: monitoring system  
 Power supply: 230 V 50/60Hz  
 Diameters: 175 x 110 x 50 mm, 10 moduls DIN  
 Mounting: DIN rail  
 Connection: USB, RJ45 (LAN), RS247-32(modem)  
 Output: 1 rele



<p><b>47-32XR10CX1H</b></p> <p>Application: cooling / heating application            Power supply: 24 V            Diameters: 32 x 74 x 60 mm            Mounting: panel cut-out: 71 x 29 mm            Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 80 % (non condensing)            Analog input: 3 x NTC / PTC            Digital input: 1 free voltage            Relay output: 8(3), 12 a 20(8) A, 250V            Measuring range: NTC: -40 to +110 °C, PTC: -50 to +150 °C</p>	
<p><b>47-32XR170C</b></p> <p>Application: medium or low temperature ref. units, built in RS485            Voltage: 12 V            Diameters: 70 x 85 x 61 mm            Mounting: panel cut-out: 71 x 29 mm            Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: 3 x NTC / PTC configurable            Digital input: 1 free voltage, 1 x door            Relay output: compressor, defrost, fans, alarm: SPST 8(3) A, SPDT 8(3) A, SPST 8(3) A, SPDT 8(3) A, SPST 16(6) A, SPST 8(3) A / 250V            Measuring range: NTC: -40 to +110 °C, PTC: -50 to +150 °C</p>	
<p><b>47-32XT120C-230</b></p> <p>Application: two stages controller with multi probe input            Power supply: 230 V            Diameters: 32 x 74 x 60 mm            Mounting: panel cut-out: 71 x 29 mm            Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: NTC/PTC or NTC/OTC /Pt100/ thermocouple J, K, S or 4÷20mA/0÷1V/0÷10V            Digital input: free voltage            Relay output: 2 x SPDT 8(3) A / 250 V            Measuring range: NTC: -40 to +110 °C, PTC: -50 to +150 °C</p>	
<p><b>47-32XT11S</b></p> <p>Application: digital thermometer            Power supply: 12 V            Diameters: 31 x 64 x 19,5 mm            Mounting: panel cut-out: 59 x 25,5 mm            Connection: fastons, different size for power supply and probe            Operating temperature: 0 - 60 °C            Relative humidity: 20 - 85 % (non condensing)            Analog input: NTC            Measuring temperature: NTC: -30 to +80 °C</p>	

## Ranco Honeywell

Code	47-321002-100	47-321002-110	47-321002-300	47-321002-310	47-321002-300RC	47-321002-400
Type	PCR 100	PCR 110	PCR 300	PCR 310	PCR 300RC	PCR410
Power supply	230V	230V	230V	12V	230V	230V
Temp. range [°C]	-55 - +55	-55 - +55	-55 - +55	-55 - +55	-55 - +55	-55 - +55
Room	PTC	PTC	PTC	PTC	PTC	PTC
Evaporator			PTC	PTC	PTC	PTC
Evaporator 2						
Condenser						
Display						
Thermostat						
Compressor	5A 230V	5A 230V	8A 230V	8A 230V	8A 230V	8A 230V
Compressor 2						
Defrost	5A 230V	5A 230V	8A 230V	8A 230V	8A 230V	8A 230V
Defrost 2			8A 230V	8A 230V	8A 230V	8A 230V
Fan						
Light / AUX						
Real time					8A 230V	
Diameter [mm]	85 x 70 x 61	32 x 70 x 74	85 x 70 x 61	32 x 70 x 74	85 x 70 x 61	32 x 70 x 74
Mounting	DIN rail	panel	DIN rail	panel	DIN rail	panel

Code	47-32RA11D-000CA70	47-32RA23D000CH70
Type	R001	R003
Power supply	230V, AC	230V, AC
Temp. range [°C]		
Input		
Room	PTC/NTC	PTC/NTC
Evaporator	PTC/NTC	PTC/NTC
Compressor	8A 250V	8A 250V
Compressor 2		
Defrost		8A 250V
Defrost 2		
Fan		8A 250V
Light / AUX		
Mixing		
Diameter [mm]		
Mounting	panel	panel

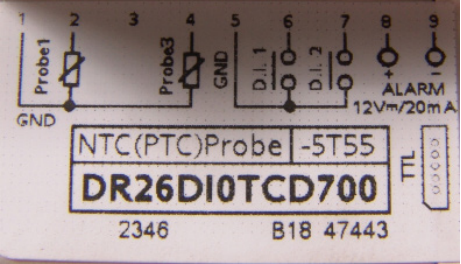
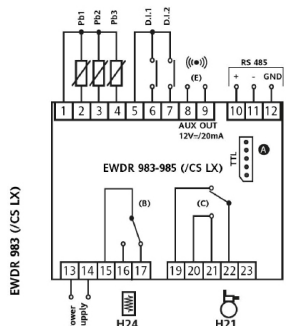
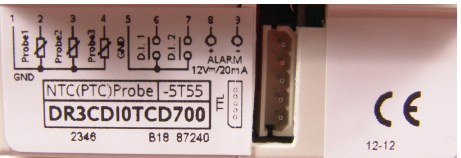
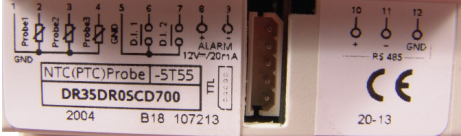


Code	Description
47-32SN691150	temperature probe NTC 5 x 15 mm, 1.5 m, thermoplastic, IP67, -40 to +110 [°C], sensor Semitec NTC 103AT-2 1% 10Kohm 25 [°C]
47-32SN691200	temperature probe NTC 5 x 15 mm, 2 m, thermoplastic, IP67, -40 to +110 [°C], sensor Semitec NTC 103AT-2 1% 10Kohm 25 [°C]
47-32SN691300	temperature probe NTC 5 x 15 mm, 3 m, thermoplastic, IP67, -40 to +110 [°C], sensor Semitec NTC 103AT-2 1% 10Kohm 25 [°C]

**Electronic controllers  
+ accessories**
**Eliwell**

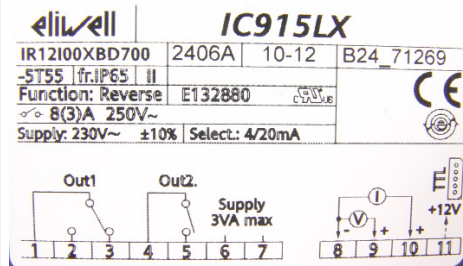
Code	Description
47-32DR26DI0TCD700	digital controller EWDR 981 ELIWELL, power supply: 230V, 2 x input NTC / PTC, 2 x digital input, 1x digital output - relay 16A 1hp 250V SPDT
47-32DR38CF0SCD700	digital controller EWDR 983/CS LX ELIWELL, power supply: 230V, 3 x input NTC / PTC, 2 x digital input, 2 x digital output - rele 8A 1/2hp 250V SPDT, 16A 1hp 250V SPDT
47-32DR3CDI0TCD70	digital controller EWDR 984 ELIWELL, power supply: 230V, 3 x NTC/PTC, 2 x digital input, 3 x digital output - relay 8A 1/2 hp 240V SPST, 8A 1/2 hp 250V SPDT, 16A 1 hp 250V SPST
47-32DR35DR0SCD700	digital controller EWDR 985LX ELIWELL, power supply: 230V, 3 x input NTC / PTC, 2x digital input, 4x digital output - relay 8A 1/2hp 250V SPST, 8A 1/2hp 250V SPDT, 16A 1hp 250V SPST, 8A 1/2hp 250V SPST
47-32IR12I00XBD700	digital controller IC 915/R U ELIWELL, power supply: 230V, 1 x NTC / PTC, 1x digital input, 2 x digital output - relay 8(3)A 230V SPST, 8(3)A 230V SPDT
47-32IDP17D03E0000	digital controller IDPlus 961 ELIWELL, power supply: 12V, 1 x NTC / PTC, 1x digital input, 1x digital output - relay UL60730A 2hp 240V
47-32IDP17D07C0000	digital controller IDPlus 961 ELIWELL, power supply: 230V, 1 x NTC / PTC, 1x digital input, 1 x digital output - relay UL60730A 2hp 240V
47-32IDP29DB3E0000	digital controller IDPlus 971 ELIWELL, power supply: 12V, 2 x NTC / PTC, 2 x digital input, 2 x digital output - relay UL60730A 2hp 240V, 8(4)A 250V
47-32IDP29DB7C0000	digital controller IDPlus 971 ELIWELL, power supply: 230V, 2 x NTC / PTC, 2 x digital input, 2 x digital output - relay UL60730A 2hp 240V, 8(4)A 250V
47-32IDP2EDB3E0000	digital controller IDPlus 974 ELIWELL, power supply: 12V, 2 x NTC / PTC, 2 x digital input, 3 x digital output - relay UL60730A 2hp 240V, 8(4)A 250V, 5(2)A 250V
47-32IDP2EDB7C0000	digital controller IDPlus 974 ELIWELL, power supply: 230V, 2 x NTC / PTC, 2 x digital input, 3 x digital output - relay UL60730A 2hp 240V, 8(4)A 250V, 5(2)A 250V
47-32E4D12N00BH410	digital controller DR 4020 ELIWELL, power supply: 12-24 Vac/dc, 1 x NTC / PTC, 2 x digital output - relay 8(3)A 250V SPDT, 8(3)A 250V SPDT
47-32E4D12N00BH710	digital controller DR 4020 ELIWELL, power supply: 100-240 Vac, 1 x NTC / PTC, 2 x digital output - relay 8(3)A 250V SPDT, 8(3)A 250V SPDT
47-32ICP22DI450000	digital controller ICPlus 915 ELIWELL, power supply: 12-24Vac/dc, 1 x NTC / PTC, 1 x digital input, 2 x digital output - relay 8(4)A 250V SPST, 8(4)A 250V SPDT
47-32ICP22DI750000	digital controller ICPlus 915 ELIWELL, power supply: 230V, 1 x NTC / PTC, 1x digital input, 2 x digital output - relay 8(4)A 250V SPST, 8(4)A 250V SPDT
47-32EWTS72	digital controller EWTS 72 ELIWELL, power supply: 12V, 1 x NTC, 3 x digital output - relay 8(3)A 250V, 8(3)A 250V, 8(3)A 250V
47-32ID11D00TCA300	digital controller ID 961 ELIWELL, power supply: 12V, 1 x NTC / PTC, 1 x digital input, 1 x digital output - relay 8(3)A 250V SPDT
47-32ID34DR2SCDH00	digital controller ID 978 ELIWELL, power supply: 12V, 1 x NTC/PTC, 1 x digital input, 1 x digital output - relay 8(3)A 250V SPDT
47-32ECH210B	digital controller ECH210B ELIWELL, power supply: 12V, 1 x NTC/PTC, 1x digital input, 1x digital output - relay 8(3)A 250V SPDT

Code	Description
<b>Temperature probe - PVC sensor / PVC cable</b>	
47-32SN691150	temperature probe NTC, thermoplastic, L = 1,5 m, PVC sensor 6x15 mm, PVC cable, temperature range -50 to +120°C, IP67
47-32SN691200	temperature probe NTC, thermoplastic, L = 2 m, PVC sensor 6x15 mm, PVC cable, temperature range -50 to +120°C, IP67
47-32SN691300	temperature probe NTC, thermoplastic, L = 3 m, PVC sensor 6x15 mm, PVC cable, temperature range -50 to +120°C, IP67
47-32SN7T6H1502	temperature probe PTC, thermoplastic, L = 1,5 m, PVC sensor 5x20 mm, PVC cable, temperature range -50 to +110°C, IP68
47-32SN7T6H3002	temperature probe PTC, thermoplastic, L = 3 m, PVC sensor 5x20 mm, PVC cable, temperature range -50 to +110°C, IP68
<b>Temperature probe - stainless steel sensor / PVC cable</b>	
47-32SN8P0A1500	temperature probe NTC, L = 1,5 m, stainless steel sensor 6x40 mm, PVC cable, temperature range -30 to +80°C, IP67
47-32SN8P0A2000	temperature probe NTC, L = 2 m, stainless steel sensor 6x40 mm, PVC cable, temperature range -30 to +80°C, IP67
47-32SN8P0A3000	temperature probe NTC, L = 3 m, stainless steel sensor 6x40 mm, PVC cable, temperature range -30 to +80°C, IP67
47-32SN8P0A6000	temperature probe NTC, L = 6 m, stainless steel sensor 6x30 mm, PVC cable, temperature range -30 to +80°C, IP67
47-32SN7P0A1500	temperature probe PTC, L = 1,5 m, stainless steel sensor 6x40 mm, PVC cable, temperature range -30 to +80°C, IP67
47-32SN7P0A2000	temperature probe PTC, L = 2 m, stainless steel sensor 6x40 mm, PVC cable, temperature range -30 to +80°C, IP67
47-32SN7P0A3000	temperature probe PTC, L = 3 m, stainless steel sensor 6x40 mm, PVC cable, temperature range -30 to +80°C, IP67
47-32SN7P0B6000	temperature probe PTC, L = 6 m, stainless steel sensor 6x40 mm, PVC cable, temperature range -30 to +80°C, IP67
<b>Temperature probe - stainless steel sensor / silicon cable</b>	
47-32SN7S0A2000	temperature probe PTC, L = 2 m, stainless steel sensor 6x40 mm, silicon cable, temperature range -50 to +120°C, IP67
47-32SN7S0A3000	temperature probe PTC, L = 3 m, stainless steel sensor 6x40 mm, silicon cable, temperature range -50 to +120°C, IP67
47-32SN7S0A5000	temperature probe PTC, L = 5 m, stainless steel sensor 6x40 mm, silicon cable, temperature range -50 to +120°C, IP67
<b>Temperature probe - stainless steel sensor / PVC cable</b>	
47-32SN9DAE11502C6	temperature probe PTC, L = 1,5 m, stainless steel sensor 6x20 mm, PVC cable, temperature range -50 to +120°C, IP68
<b>Temperature probe - piercing</b>	
47-32SN603090	temperature probe PTC, L = 3 m, 4x100, silicon cable, angle handle, temperature range -50 to +120°C, IP67
<b>Temperature probe - tubing</b>	
47-32SN660150	temperature probe PTC, L = 1,5 m, PVC cable, temperature range 0 to 80°C, IP44
47-32SN660300	temperature probe PTC, L = 3 m, PVC, temperature range 0 to 80°C, IP44
<b>Humidity probe</b>	
47-32SN560000	humidity probe EWHS 280, l = 1m, sensor 25x103 mm, PVC cable, range 15 to 90%RH, 4 to 20mA, IP54
47-32SN5PPN116I3M0	humidity probe EWHS 284, l = 1 m, sensor 25 x 103 mm, PVC cable, range 15 to 90%RH, 4 to 20 mA, IP 54

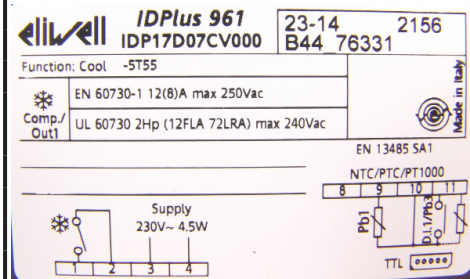
<p><b>47-32DR26DI0TCD700 - type EWDR 981</b></p> <p>Application: medium temperature cooling systems          Power supply: 230V, 50 Hz          Diameters: 70 x 85 x 61 mm          Mounting: DIN rail          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: -5 to 55 [°C]          Relative humidity: 10 to 90 % RH (non condensing)          Analog input: 2 x NTC / PTC (adjustable)          Digital input: 2 free voltage (adjustable)          Serial port: TTL          Relay output: 1x rele 16A 1hp 250V SPDT          Adjustable output: 12V - / 24 mA</p>	
<p><b>47-32DR38CF0SCD700 - type EWDR 983/CS LX</b></p> <p>Application : medium temperature cooling app., defrost management          Power supply: 230V          Diameters: 70 x 85 x 61 mm          Mouting: DIN rail          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: -5 to 55 [°C]          Relative humidity: 10 to 90 % RH (non condensing)          Analog input: 3 x NTC/PTC (adjustable)          Digital input: 2 free voltage (adjustable)          Serial port: TTL, RS-485 for Televis monitoring          Relay output: 2 x rele: 8A 1/2hp 250V SPDT, 16A 1hp 250V SPDT</p>	
<p><b>47-32DR3CDI0TCD70 - typ EWDR 984</b></p> <p>Application: medium temperature, defrost and fan management          Power supply: 230V, 50 Hz          Diameters: 70 x 85 x 61 mm          Mounting: DIN rail          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: -5 to 55 [°C]          Relative humidity: 10 to 90 % RH (non condensing)          Analog input: 3 x NTC / PTC (adjustable)          Digital input: 2 free voltage (adjustable)          Serial port: TTL          Relays output: 3x rele: 8A 1/2hp 250V SPST, 8A 1/2hp 250V SPDT, 16A 1hp 250V SPST          Adjustable output: 12V - / 24 mA</p>	
<p><b>47-32DR35DR0SCD700 - type EWDR 985 LX</b></p> <p>Application: medium temperature, compressor, defrost, fan and aux management          Power supply: 230V, 50 Hz          Diameters: 70 x 85 x 61 mm          Mounting: DIN rail          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: -5 to 55 [°C]          Relative humidity: 10 to 90 % RH (non condensing)          Analog output: 3 x NTC/PTC (adjustable)          Digital input: 2 free voltage (adjustable)          Serial port: TTL          Relay output: 4x rele: 8A 1/2hp 250V SPST, 8A 1/2hp 250V SPDT, 16A 1hp 250V SPST, 8A 1/2hp 250V SPST          Adjustable output: 12V - / 24 mA</p>	

**47-32IR12I00XBD700 - type IC 915/R**

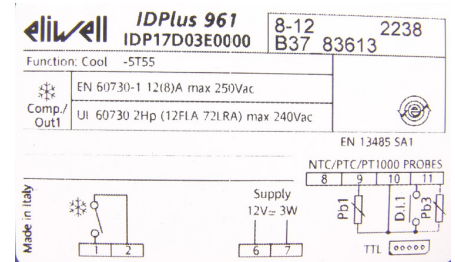
Application: to control humidity and pressure  
 Power supply: 230V, 50 Hz  
 Diameters: 74 x 32 x 59 mm  
 Mounting: panel  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: -5 to 55 [°C]  
 Relative humidity: 10 to 90 % RH (non condensing)  
 Analog input: 1 x NTC/PTC (adjustable)  
 Digital input: 1x free voltage  
 Serial port: TTL or Televis monitoring  
 Relay output: 2 x rele: 8(3)A 230V SPST, 8(3)A 230V SPDT

**47-32IDP17D07C0000 - type IDPlus 961**

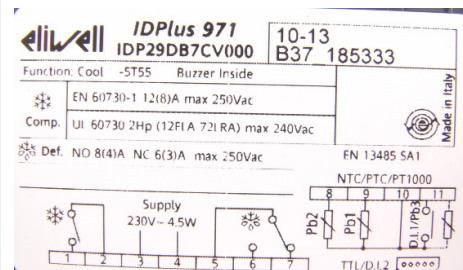
Application: medium cooling application  
 Power supply: 230V  
 Diameters: 74 x 32 x 59 mm  
 Mounting: panel  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: -5 to 55 [°C]  
 Relative humidity: 10 to 90 % RH (non condensing)  
 Analog input: 1x NTC/PTC (adjustable)  
 Digital input: 1 free voltage  
 Serial port: TTL  
 Relay output: 1 x rele: UL60730A 2hp 240V

**47-32IDP17D03E000 - type IDPlus 961**

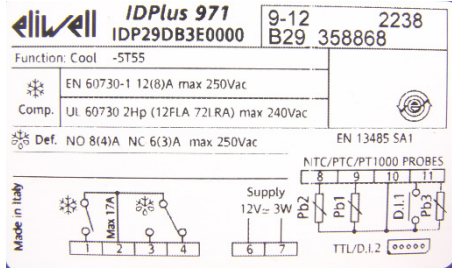
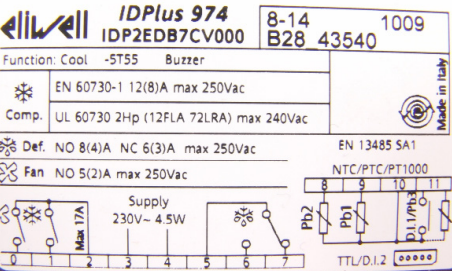
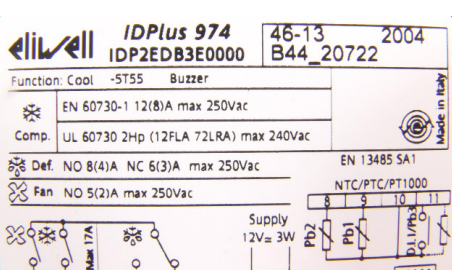
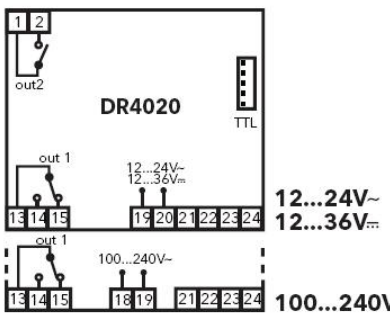
Application: medium cooling components  
 Power supply: 12V  
 Diameters: 74 x 32 x 59 mm  
 Mounting: panel  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: -5 to 55 [°C]  
 Relative humidity: 10 to 90 % RH (non condensing)  
 Analog input: 1x NTC/PTC (adjustable)  
 Digital input: 1 free voltage  
 Serial port: TTL  
 Relay output: 1x rele: UL60730A 2hp 240V

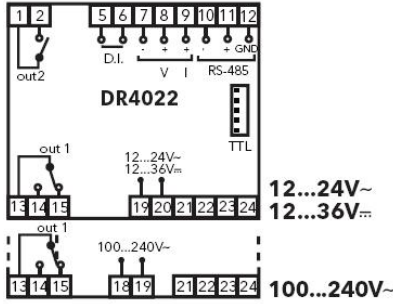
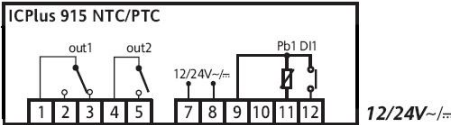
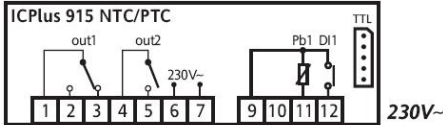
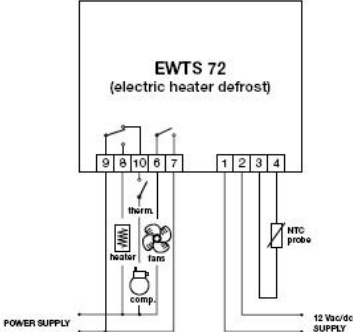
**47-32IDP29DB7C0000 - type IDPlus 971**

Application: medium temperature cooling application, defrost management  
 Power supply: 230V  
 Diameters: 74 x 32 x 59 mm  
 Mounting: panel  
 Connection: screw terminal block up to  $\leq 2,5$  mm<sup>2</sup> wiring  
 Operating temperature: -5 to 55 [°C]  
 Relative humidity: 10 to 90 % RH (non condensing)  
 Analog input: 2x NTC/PTC (adjustable)  
 Digital input: 2x free voltage  
 Serial port: TTL for D.I.2  
 Relay output: 2x rele: 8(4)A 250VSPST, UL60730A 2hp 240V





<p><b>47-32IDP29DB3E0000 - typ IDPlus 971</b></p> <p>Application: cooling - compressoru                      Power supply: 12Vac/dc                      Diameters: 74 x 32 x 59 mm                      Mounting: panel                      Connection: screw terminalblock up to Ø 2,5 mm<sup>2</sup> wiring                      Operating temperature: -5 to 55 [°C]                      Relative humidity: 10 to 90 % RH (non condensing)                      Analog input: 2x NTC/PTC (adjustable)                      Digital input: 2x free voltage                      Serial port: TTL for D.I.2                      Relay output: 2x rele: 8(4)A 250VSPST, UL60730A 2hp 240V</p>	<p style="text-align: right;"><b>11 238,00</b></p>  <p><b>IDPlus 971</b>                  IDP29DB3E0000                  9-12 2238                  B29 358868</p> <p>Function: Cool -5T55                  EN 60730-1 12(8)A max 250Vac                  Comp. UL 60730 2Hp (12FLA 72LRA) max 240Vac                  Def. NO 8(4)A NC 6(3)A max 250Vac                  EN 13485 SA1                  NTC/PTC/PT1000 PROBES                  8 9 10 11                  PDZ PD1 D.I./Pb2                  TTL/D.I.2 *****                  Supply 12V= 3W                  Max 17A                  Made in Italy</p>
<p><b>47-32IDP2EDB7C0000 - IDPlus 974</b></p> <p>Application: cooling - compressor, defrost, ventilator                      Power supply: 230Vac                      Diameters: 74 x 32 x 59 mm                      Mounting: panel                      Connection: screw terminalblock up to Ø 2,5 mm<sup>2</sup> wiring                      Operating temperature: -5 to 55 [°C]                      Relative humidity: 10 to 90 % RH (non condensing)                      Analog input: 2x NTC/PTC (adjustable)                      Digital input: 2x free voltage                      Serial port: TTL for D.I.2                      Relay output: 3x rele: 8(4)A 250V SPST, UL60730 (A) 2hp 240V, 5(2) A 250V</p>	<p style="text-align: right;"><b>966,00</b></p>  <p><b>IDPlus 974</b>                  IDP2EDB7CV000                  8-14 1009                  B28 43540</p> <p>Function: Cool -5T55 Buzzer                  EN 60730-1 12(8)A max 250Vac                  Comp. UL 60730 2Hp (12FLA 72LRA) max 240Vac                  Def. NO 8(4)A NC 6(3)A max 250Vac                  EN 13485 SA1                  Fan NO 5(2)A max 250Vac                  NTC/PTC/PT1000                  8 9 10 11                  PDZ PD1 D.I./Pb2                  TTL/D.I.2 *****                  Supply 230V~ 4.5W                  Max 17A                  Made in Italy</p>
<p><b>47-32IDP2EDB3E0000 - IDPlus 974</b></p> <p>Application: cooling - compressor, defrost, ventilator                      Power supply: 12Vac/dc                      Diameters: 74 x 32 x 59 mm                      Mounting: panel                      Connection: screw terminalblock up to Ø 2,5 mm<sup>2</sup> wiring                      Operating temperature: -5 to 55 [°C]                      Relative humidity: 10 to 90 % RH (non condensing)                      Analog input: 2x NTC/PTC (adjustable)                      Digital input: 2x free voltage                      Serial port: TTL for D.I.2                      Relay output: 3x rele: 8(4)A 250V SPST, UL60730 (A) 2hp 240V, 5(2) A 250V</p>	<p style="text-align: right;"><b>1 322,00</b></p>  <p><b>IDPlus 974</b>                  IDP2EDB3E0000                  46-13 2004                  B44_20722</p> <p>Function: Cool -5T55 Buzzer                  EN 60730-1 12(8)A max 250Vac                  Comp. UL 60730 2Hp (12FLA 72LRA) max 240Vac                  Def. NO 8(4)A NC 6(3)A max 250Vac                  EN 13485 SA1                  Fan NO 5(2)A max 250Vac                  NTC/PTC/PT1000                  8 9 10 11                  PDZ PD1 D.I./Pb2                  TTL/D.I.2 *****                  Supply 12V= 3W                  Max 17A                  Made in Italy</p>
<p><b>47-32E4D12N00BH410 - typ DR 4020</b></p> <p>Application: cooling / heating                      Power supply: 12-24 Vac/dc                      Diameters: 70 x 87 x 61 mm                      Mounting: DIN rail                      Connection: screw terminal block up to Ø 2,5 mm<sup>2</sup> wiring                      Operating temperature: -5 to 55 [°C]                      Relative humidity: 10 to 90 % RH (non condensing)                      Analog input: 1x NTC/PTC                      Digital input:                      Serial port: TTL                      Relay output: 2x rele: 8(3)A 250V SPDT, 8(3)A 250V SPDT</p>	<p style="text-align: right;"><b>1 491,00</b></p>  <p><b>DR4020</b>                  TTL</p> <p>out 2                  out 1                  12...24V~                  12...36V~                  100...240V~                  13 14 15 18 19 21 22 23 24                  12...24V~                  12...36V~                  100...240V~</p>

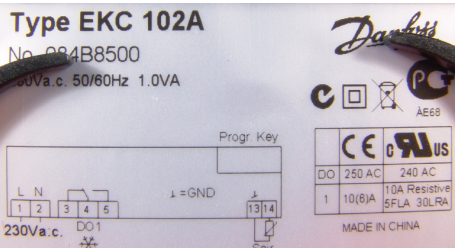
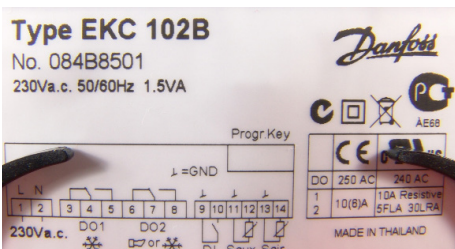
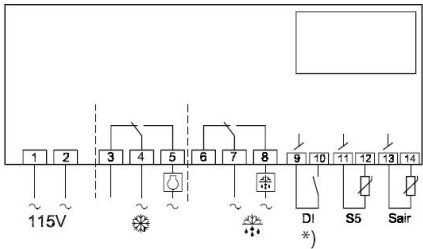
<p><b>47-32E4D12N00BH710 - type DR 4020</b></p> <p>Application: cooling / heating            Power supply: 100 - 240 Vac            Diameters: 70 x 87 x 61 mm            Mounting: DIN rail            Connection: screw terminal block up to <math>\leq 2,5</math> mm<sup>2</sup> wiring            Operating temperature: -5 to 55 [°C]            Operating temperature: 10 to 90 % RH (non condensing)            Analog input: 1x NTC/PTC            Digital input:            Serial port: TTL            Relays output: 2x rele: 8(3)A 250V SPDT, 8(3)A 250V SPDT</p>	
<p><b>47-32ICP22DI450000 - type ICPlus 915</b></p> <p>Application:            Power supply: 12-24 Vac/dc            Diameters: 74 x 32 x 59 mm            Mounting: panel            Connection: screw terminal block up to <math>\leq 2,5</math> mm<sup>2</sup> wiring            Operating temperature: -5 až 55 [°C]            Relative humidity: 10 to 90 % RH (non condensing)            Analog input: 1x NTC/PTC            Digital input: 1x free voltage            Serial port: TTL and Televis monitoring            Relay output: 2x rele: 8(4)A 250V SPST, 8(4)A 250V SPDT            Other output</p>	
<p><b>47-32ICP22DI750000 - type ICPlus 915</b></p> <p>Application:            Power supply: 230V            Diameters: 74 x 32 x 59 mm            Mounting: panel            Connection: screw terminal block up to <math>\leq 2,5</math> mm<sup>2</sup> wiring            Operating temperature: -5 to 55 [°C]            Relative humidity: 10 to 90 % RH (non condensing)            Analog input: 1x NTC/PTC            Digital input: 1x free voltage            Serial port: TTL and Televis monitoring            Relay output: 2x rel: 8(4)A 250V SPST, 8(4)A 250V SPDT</p>	
<p><b>47-32EWTS72 - type EWTS 72</b></p> <p>Application:            Power supply: 12V            Diameters: 74 x 32 x 67 mm            Mounting: panel            Connection: screw terminal block up to <math>\leq 2,5</math> mm<sup>2</sup> wiring            Operating temperature: -5 to 65 [°C]            Relative humidity: 10 to 90 % RH (non condensing)            Analog output: 1x NTC            Digital input:            Serial port:            Relay output: 3x relé: 8(3)A 250V, 8(3)A 250V, 8(3)A 250V</p>	

<b>47-32ID11D00TCA300 - type ID 961</b>	
<p>Application:          Power supply: 12V          Diameters: 74 x 32 x 59 mm          Mounting: panel          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: -5 to 55 [°C]          Relative humidity: 10 to 90 % RH (non condensing)          Analog input: 1x NTC/PTC (adjustable)          Digital input: 1x free voltage          Serial port: TTL and Telesis monitoring          Relay output: 1x rele: 8(3)A 250V SPDT          Other output:</p>	<p>The image shows the label for the ID961 controller. It includes the model number ID11D00TCA300, date 31-05-10, function 'Cool', and supply '12V~/±10% NTC (PTC) Probe'. A terminal block diagram shows terminals 1-3 for 'Comp.' and 6-9 for 'Supply 1:5VA max' and 'Probe'.</p>
<b>47-32ID34DR2SCDH00 - type IDPlus 978</b>	
<p>Application:          Power supply: 12V          Diameters: 74 x 32 x 59 mm          Mounting: panel          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: -5 to 55 [°C]          Relative humidity: 10 to 90 % RH (non condensing)          Analog input: 1x NTC/PTC (adjustable)          Digital input: 1x free voltage          Serial port: TTL and Telesis monitoring          Digital output: 1x rele: 8(3)A 250V SPDT          Other output:</p>	<p>The image shows the label for the ID985 /S/E/CK controller. It includes the model number ID34DR2SCDH00, date 6-13, and function 'clock+Buz.'. A terminal block diagram shows terminals 1-20 with labels (A), (B), (C), (D) and 'Supply 2.5W max'.</p>
<b>47-32ECH210B</b>	
<p>Application:          Power supply: 12V          Diameters: 74 x 32 x 59 mm          Mounting: panel          Connection: screw terminal block up to <math>\leq 2,5 \text{ mm}^2</math> wiring          Operating temperature: -5 to 55 [°C]          Relative humidity: 10 to 90 % RH (non condensing)          Analog input: 1x NTC/PTC (adjustable)          Digital input: 1x free voltage          Serial port: TTL and Telesis monitoring          Digital output: 1x rele: 8(3)A 250V SPDT          Adjustable output:</p>	<p>The image shows the label for the ECH210B controller. It includes the model number 47-32ECH210B and function 'RELAYS 2(2)A 250V~ TRIAC (TK) 2A 250V~'. A terminal block diagram shows terminals 1-9 with labels N, NO2, TK, NO3, NO4.</p>

**Electronic controllers**
**Danfoss**

Code	Description
47-32084B8500	digital controller Danfoss EKC102A, 084B8500, power supply: 230V, 50/60 Hz, 1 x output, 1 x temperature sensor, functions: thermostat, defrost, compressor, fans, types of sensors: EKS (PTC1000), AKS (PT10000) or NTC, weight: 0,174 [kg]
47-32084B8501	digital controller with alarm management Danfoss EKC102B, 084B8501, power supply: 230V, 50/60 Hz, 2 x output, 1 x temperature probe, digital output, functions: thermostat, management of: defrosting, compressor and fan, types of sensors: EKS (PTC1000), AKS (PT10000) or NTC, weight: 0,182 [kg]
47-32084B8502	digital controller with defrost management Danfoss EKC102C, 084B8502, power supply: 230V, 50/60 Hz, 2 x output, 1 x temperature sensor, digital output, function: thermostat, management of defrost, compressor and fans, types of sensors: EKS (PTC1000), AKS (PT10000) or NTC, weight: 0,182 [kg]

Code	Description
<b>Temperature sensors</b>	
47-32084N0003	temperature probe PVC, AKS 11, (Pt1000), L = 3,5 m, operating range: -50 to +100 [°C]
47-32084N1178	temperature probe PVC, EKS 111, L = 1,5 m, operating range: -50 to +80 [°C]
47-32084N2003	temperature probe AKS 21M, L = 2,5 m, operating range: -70 to +180 [°C]
<b>Pressure transmitters</b>	
47-32060G1036	pressure transmitter ratiometric AKS 32R, pressure range: -1 / 12 bar
47-32060G2049	pressure transmitter AKS 33, pressure range -1 / 12 bar
47-32060G2051	pressure transmitter AKS 33, pressure range -1 / 30 bar
47-32060G2101	pressure transmitter AKS 33, pressure range -1 / 12 bar

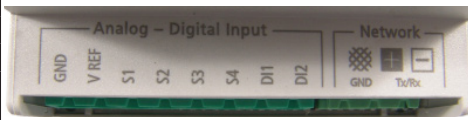
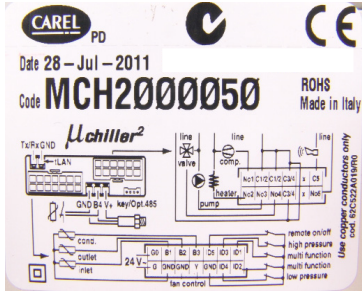
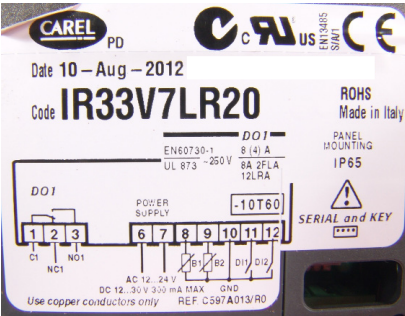
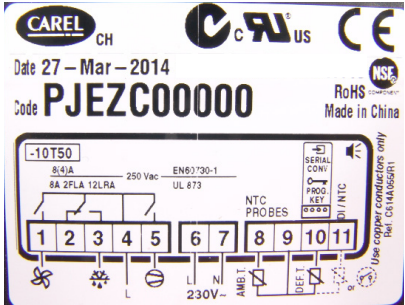
<p><b>47-32084B8500</b></p> <p>Application:            Power supply: 230V            Diameters: 80 x 29 x 71 mm            Mounting: panel            Connection: screw terminal block up to <math>\leq 1,5 \text{ mm}^2</math> wiring            Operating temperature: -50 to +50 [°C]            Relative humidity: 20 to 80 % RH (non condensing)            Analog input: 1x temperature probe            Types of sensors: EKS (PT1000), AKS (PT10000), NTC            Functions: thermostat, defrost, compressors, fans            Relay output: 1 x rele</p>	
<p><b>47-32084B8501</b></p> <p>Application:            Power supply: 230V            Diameters: 80 x 29 x 71 mm            Mounting: panel            Connection: screw terminal block up to <math>\leq 1,5 \text{ mm}^2</math> wiring            Operating temperature: -50 to +50 [°C]            Relative humidity: 20 to 80 % RH (non condensing)            Analog input: 2x temperature sensors            Types of sensors: EKS (PT1000), AKS (PT10000), NTC            Functions: thermostat, defrost, compressors, fans            Relay output: 2 x reles</p>	
<p><b>47-32084B8502</b></p> <p>Application:            Power supply: 230V            Diameters: 80 x 29 x 71 mm            Mounting: panel            Connection: screw terminal block up to <math>\leq 1,5 \text{ mm}^2</math> wiring            Operating temperature: -50 to +50 [°C]            Relative humidity: 20 to 80 % RH (non condensing)            Analog input: 2x temperature sensors            Types of sensors: EKS (PT1000), AKS (PT10000), NTC            Functions: thermostat, defrost, compressors, fans            Relay output: 2 x reles</p>	

**Electronic controllers  
+ accessories**
**Carel**

Code	Description
47-32EVDIS00EN0	display Carel EVD, EVDIS00EN0
47-32EVDIS00CZ0	display Carel EVD, EVDIS00CZ0
47-32EVD0000E30	digital controller Carel EVD0000E30, to manage electronic exp. valve
47-32EVDCNV00E0	converter USB/tLAN, EVD Evolution
47-32PJEZC00000	digital controller CAREL PJEZC00000, 230V / 50 Hz,
47-32IR33S0EP00	digital controller CAREL IR33S0EP00, 230V/16A
47-32IR33V7LR20	digital controller CAREL IR33V7LR20, 12-24V
47-32MCH2000050	digital controller CAREL $\mu$ C2 SE, MCH2000050
47-32MCHSMLCAB0	cable assembly CAREL $\mu$ C2, 2,0 m, MCHSMLCAB0

Code	Description
47-32NTC015HP00	temperature sensor NTC, l = 1,5 m, CAREL 015HP00, IP67, temperature range: -50°/+150°C
47-32NTC015WF00	temperature sensor NTC, l = 1,5 m, CAREL 015WF00, IP67, temperature range: -50°/+105°C
47-32NTC015WP00	temperature sensor NTC, l = 1,5 m, CAREL 015WP00, IP67, temperature range: -50°/+100°C
47-32NTC030HF01	temperature sensor NTC, l = 3 m, CAREL 030HF01, IP67, temperature range: -50°/+90°C
47-32NTC030WP00	temperature sensor NTC, l = 3 m, CAREL 030WP00, IP68, temperature range: -50/105°C
47-32NTC060WP00	temperature sensor NTC, l = 6 m, CAREL NTC060WP00, silicon, IP68, temperature range: -50/212°C, sensor: 6 x 50 mm
47-32PTC015W000	temperature sensor PTC, l = 1,5 m, CAREL PTC015W000, silicon, IP67, temperature range: -50/100°C, sensor: 6 x 40mm
47-32PTC060W000	temperature sensor PTC, l = 6 m, CAREL PTC060W000, silicon, IP67, temperature range: -50/100°C

Code	Description	Range [bar]		Range [V]		Connection 7/16" UNF
		4 [mA]	20 [mA]	0,5 [V]	4,5 [V]	
47-32SPKT0021C0	pressure transducer CAREL	-0,5	7,0			internal
47-32SPKT0031C0	pressure transducer CAREL	0	30,0			internal
47-32SPKT00B1C0	pressure transducer CAREL	0	44,8			internal
47-32SPKT0013R0	pressure transducer CAREL			-1	9,3	internal
47-32SPKT0033R0	pressure transducer CAREL			0	34,5	internal
47-32SPKT00B6R0	pressure transducer CAREL			0	45	internal
47-32SPKC002310	cable with connector for Carel SPKT, l = 2 m, IP67					
47-32SPKC005310	cable with connector for Carel SPKT, l = 5 m, IP67					
47-32DPPC110000	humidity - temperature sensor CAREL, DPPC110000, humidity range: 10 to 90 %					
47-32DPWC110000	humidity sensor CAREL, DPWC110000, humidity range: 10 to 90 %					

<p><b>47-32EVD0000E30</b></p> <p>Application: to control electronic expansion valve            Power supply: 24VAC +10 /-15% 50/60Hz            Diameters: 70 x 110 x 60 mm            Mounting: DIN rail            Connection: screw terminal block from Ø 0,5 mm2 to Ø 1,5 mm2            Operating temperature: -10 to + 60°C            Relative humidity: 0 - 90% R.H. (non condensing)            Analog input: 4 x NTC            Digital input: 2 adjustable free contact            Serial port: -            Output: 1 x 250V / 6A, 1 x 250V/2A            Adjustable output: +5Vss+/-2% or 12Vss +/-10%</p>	
<p><b>47-32 MCH2000050</b></p> <p>Application: compressor units with 2/4 compressors (1 or 2 circles)            Power supply: 24VAC +10 /-15% 50/60Hz            Diameters: 75 x 33 x 74mm            Mounting: panel cut-out 71 x 29mm            Connection: screw terminal block from Ø 0,5 mm<sup>2</sup> to Ø 1,5 mm<sup>2</sup>            Operating temperature: -10 to +55°C            Relative humidity: 0 - 90% R.H. (non condensing)            Analog output: 1 x PWM            Digital input: 5 x kontakt            Serial port: -            Output: 5 x 230V/3A</p>	
<p><b>47-32IR333S0EP00</b></p> <p>Application: static cooling systems            Power supply: 230 Vac            Diameters: 76,2 x 34,2 x 70,5 mm            Mounting: panel cut-out 71 x29 mm            Connection: screw terminal block from Ø 0,5 mm<sup>2</sup> to Ø 1,5 mm<sup>2</sup>            Operating temperature: -10 to + 60°C            Relative humidity: 0 - 90% R.H. (non condensing)            Analog input: 2 x NTC            Digital input: 1 x            Serial port: key            Output: 1 x 230V/16A</p>	
<p><b>47-32IR333V7LR20</b></p> <p>Application: static cooling systems            Power supply: 12 VAC or 24 VAC            Diameters: 76 x 33 x 72            Mounting: panel cut-out 71 x29 mm            Connection: screw terminal block from Ø 0,5 mm<sup>2</sup> to Ø 1,5 mm<sup>2</sup>            Operating temperature: -10 to + 60°C            Relative humidity: 0 - 90% R.H. (non condensing)            Analog input: 2 x NTC            Digital input: 3 x            Serial port: key            Output: 2 x 230V/8A            Other output: -</p>	
<p><b>47-32PJEZC0000</b></p> <p>Application: to control electronic expansion valve            Power supply: 230 V +10 / -15% 50/60 Hz            Diameters: 76 x 33 x 72            Mounting: panel cut-out 71 x29 mm            Connection: screw terminal block from Ø 0,5 mm<sup>2</sup> to Ø 1,5 mm<sup>2</sup>            Operating temperature: -10 to + 55°C            Relative humidity: 0 - 90% R.H. (non condensing)            Analog output: 1 x PWM            Digital input: 5 x kontakt            Serial port: key            Output: 2 x 230V/8A            Other output: -</p>	<p style="text-align: right;"><b>665,00</b></p> 

**Data loggers -  
thermometers**
**Comet**

Code	Description	Measuring range [°C]
47-3210-R0110E	thermometer with inner sensor, data are store to a non volatile electronic memory, USB, RS232, GSM, accuracy: $\pm 0.6^{\circ}\text{C}$ from $-30$ to $+30^{\circ}\text{C}$ and $\pm 0.8^{\circ}\text{C}$ from $+30$ to $+70^{\circ}\text{C}$	-30 to +70
47-3210-R0110	thermometer with inner sensor, data are stored to a non volatile electronic memory, USB, RS232	-40 to +80
47-3210-S0110E	thermometer with display and inner sensor, accuracy: $\pm 0.6^{\circ}\text{C}$ from $-30$ to $+30^{\circ}\text{C}$ and $\pm 0.8^{\circ}\text{C}$ from $+30$ to $+70^{\circ}\text{C}$	-30 to +70
47-3210-S0110	thermometer with display and inner sensor	-30 to +70
47-3210-S0111	thermometer for external probe with display	-90 to +260
47-3210-S0121	thermometer for external 2 probes with display	-90 to +260
47-3210-S0141	thermometer for 4 external probes with display and alarm	-90 to +260
47-3210-G0221E	temperature recorder with printer, 9-47-32V DC	-90 to +260

**Data loggers -  
thermo-hydrometers**
**Comet**

Code	Description	Measuring range [°C]
47-3210-R3120	thermo-hydrometer with inner sensors (T a RH), without display	-30 to +70 0 to 100% RH
47-3210-S3120	thermo-hydrometer with inner sensors (T a RH), with display	-30 to +70 0 to 100% RH

**Accessories for  
data loggers**
**Comet**

Code	Description
47-3210-PT1000TG8-2	temperature sensor, L = 2 m
47-3210-PT1000TG8-5	temperature sensor, L = 5 m, silicon, range: $-80$ to $+200^{\circ}\text{C}$
47-3210-SN201	temperature sensor, L = 5 m, range: $-30$ to $+80^{\circ}\text{C}$
47-3210-A1940	adapter AC/DC 230Vac to 24V, connection to terminals, switch - mode
47-3210-LP002	COM adapter for PC comunication RS232
47-3210-LP003	USB adapter
47-3210-LP004	start/stop magnet
47-3210-LP005	LAN adapter with 0,5 m cable, external converter for loggers communication with the PC
47-3210-F9000	wall holder with lock secured against unauthorized removal
47-3210-PR033	spare roll of thermopaper for temperature recorders

**Data  
loggers**
**EBRO**

Code	Description	Measuring range [°C]
47-3210-EBI300	temperature data logger EBRO 300, accuracy: $\pm 0.5^{\circ}\text{C}$ ( $-20$ to $+40^{\circ}\text{C}$ ), remaining range: $0,8^{\circ}\text{C}$ , sensor: NTC, USB	-30 to +60

## Switchboards

Code	Description
47-321005-1	switchboard PRCH 1, electric defrost fan delay, dimensions: 220 x 170 x 80 mm, PCR 100, 1 way
47-321005-1-06	switchboard PRCH 1, electric defrost fan delay, dimensions 220 x 170 x 80 mm, PCR 100, 1 way
47-321005-1-10	switchboard PRCH 1, electric defrost fan delay, dimensions 220 x 170 x 80 mm, PCR 100, 1 way
47-321005-1D	switchboard PRCH 1, electric defrost fan delay, dimensions: 220 x 170 x 80 mm, XR20D, 1 way
47-321005-2	switchboard PRCH 2, el. defrost, dimensions 220 x 170 x 80 mm, PCR 300, 1 way
47-321005-2-06	switchboard PRCH 2, el. defrost, dimensions 220 x 170 x 80 mm, PCR 300, 1 way
47-321005-2-10	switchboard PRCH 2, el. defrost, dimensions 220 x 170 x 80 mm, PCR 300, 1 way
47-321005-2-16	switchboard PRCH 2, el. defrost, dimensions 220 x 170 x 80 mm, PCR 300, 1 way
47-321005-22D	switchboard PRCH 2, el. defrost, dimensions 220 x 170 x 80 mm, XR60D, 1 way
47-321005-22D-06	switchboard PRCH 2, el. defrost, dimensions 220 x 170 x 80 mm, XR60D, 1 way
47-321005-22D-10	switchboard PRCH 2, el. defrost, dimensions 220 x 170 x 80 mm, XR60D, 1 way
47-321005-22D-16	switchboard PRCH 2, el. defrost, dimensions 220 x 170 x 80 mm, XR60D, 1 way
47-321005-3	switchboard PRCHM 3, el. defrost, dimensions 250 x 320 x 136 mm, PCR 300,3 way
47-321005-3-16	switchboard PRCHM 3, el. defrost, dimensions 250 x 320 x 136 mm, XR60D, 3 way
47-321005-33D	switchboard PRCHM 3, el. defrost, dimensions 250 x 320 x 136 mm, XR60D, 3 way
47-321005-33D-16	switchboard PRCHM 3, el. defrost, dimensions 250 x 320 x 136 mm, XR60D, 3 way
47-321005-33D-25	switchboard PRCHM 3, el. defrost, dimensions 250 x 320 x 136 mm, XR60D, 3 way
47-321005-33D-40	switchboard PRCHM 3, el. defrost, dimensions 250 x 320 x 136 mm, XR60D, 3 way



## Switchboards

## PEGO

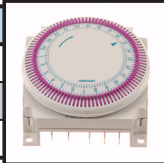
Code	Description
47-321006-ECP200	switchboard PEGO ECP200 EXPERT, 230V, 50 / 60 Hz, read range: -45 / +45 [°C], for one-phase installation in 2 HP, including probes NTC: 1 x 1,5 [m] and 1 x 3 [m], output: 5 x reles, compressor: 1500 [W], defrost: 3000 [W], ventilators 500 [W], light 800 [W], alarm: integrated, supervision system: Telenet / Modbus - RTU, integrated bipolar differential magnetothermic circuit breaker 16 A ID = 300 mA, switching power 4,5 kA, dimensions (breadth x height x depth): 262 x 168 x 97 [mm], IP: 65
47-321006-ECP200-2EV	switchboard PEGO ECP200 EXPERT 2EV, 230V, 50 / 60 Hz, read range: -45 / +45 [°C], for one-phase installation in 2 HP, including probes NTC: 1 x 1,5 [m] and 2 x 3 [m], output: sensor on defrost 2 x, ambient probe, door switch, LP/HP pressureswitch, alarm: person in box, output: 6 x rele, compressor: 1500 [W], defrost, 1 evaporator: 1500 [W], defrost 2 evaporator: 1500 [W], ventilators 500 [W], light room 800 [W], alarm: 100 [W], supervision system: Telenet, integrated four pole magnetothermic breaker 16 A ID = 300 mA, breaking current 4,5 kA, dimensions (breadth x height x depth): 262 x 168 x 97 [mm], IP: 65



47-321006-ECP300-E-VD407	switchboard PEGO ECP 300 EXPERT EVD407 PD/T4,5-6,3 [A], 400V, 50 / 60 Hz, read range: -45 / +45 [°C], for tree-phase installation in 4 HP, input: evaporator probe, ambient probe, door switch, LP/HP pressureswitch, motor protection: Kriwan, output: 7 x reles, compressor: 370 - 3000 [W], compressor motor circuit breaker range: 4,5 - 6,3 [A], defrosting heaters: 6000 [W], evaporators fans: 500 [W], condensers fans: 800 [W], room light 800 [W], alarm: 100 [W], solenoid valve, compressor oil heater, supervision system: Telenet, Integrated four pole magnetothermic breaker 16 [A], dimensions (breadth x height x depth): 400 x 300 x 135 [mm], IP: 65, weight: 9 [kg]
47-321006-ECP300-E-VD409	switchboard PEGO ECP300 EXPERT VD4 PD/T7-10 [A], 400V, 50 / 60 Hz, read range: -45 / +45 [°C], for tree-phase installation in 4 HP, input: evaporator probe, ambient probe, door switch, LP/HP pressureswitch, motor protection: Kriwan, output: 7 x reles, compressor: 370 - 3000 [W], compressor motor circuit breaker range: 7 - 10 [A], defrosting heaters: 6000 [W], evaporators fans: 500 [W], condensers fans: 800 [W], room light 800 [W], alarm: 100 [W], solenoid valve, compressor oil heater, supervision system: Telenet, Integrated four pole magnetothermic breaker 16 [A], dimensions (breadth x height x depth): 400 x 300 x 135 [mm], IP: 65, weight: 9 [kg]
47-321006-ECP300-E-VD702	switchboard PEGO ECP 300 EXPERT EVD702 PD/T7-10 [A], 400V, 50 / 60 Hz, read range: -45 / +45 [°C], for tree-phase installation in 7,5 HP, input: evaporator probe, ambient probe, door switch LP/HP pressureswitch, motor protection: Kriwan, output: 7 x reles, compressor: 3000 - 7500 [W], compressor motor circuit breaker range: 7 - 10 [A], defrosting heaters: 9000 [W], evaporators fans: 2000 (1 / 3 f) [W], condensers fans: 800 (1 f) [W], room light 800 [W], alarm: 100 [W], solenoid valve, compressor oil heater, supervision system: Telenet, Integrated four pole magnetothermic breaker 25 [A], dimensions (breadth x height x depth): 400 x 300 x 135 [mm], IP: 65, weight: 10 [kg]
47-321006-ECP300-E-VD704	switchboard PEGO ECP 300 EXPERT EVD704 PD/T11-16 [A], 400V, 50 / 60 Hz, read range: -45 / +45 [°C], for tree-phase installation in 7,5 HP, input: evaporator probe, ambient probe, door switch LP/HP pressureswitch, motor protection: Kriwan, output: 7 x reles, compressor: 3000 - 7500 [W], compressor motor circuit breaker range: 11 - 16 [A], defrosting heaters: 9000 [W], evaporators fans: 2000 (1 / 3 f) [W], condensers fans: 800 (1 f) [W], room light 800 [W], alarm: 100 [W], solenoid valve, compressor oil heater, supervision system: Telenet, Integrated four pole magnetothermic breaker 25 [A], dimensions (breadth x height x depth): 400 x 300 x 135 [mm], IP: 65, weight: 10 [kg]
47-321006-ECP300-E-VD705	switchboard PEGO ECP 300 EXPERT EVD705 PD/T14-20 [A], 400V, 50 / 60 Hz, read range: -45 / +45 [°C], for tree-phase installation in 7,5 HP, input: evaporator probe, ambient probe, door switch LP/HP pressureswitch, motor protection: Kriwan, output: 7 x reles, compressor: 3000 - 7500 [W], compressor motor circuit breaker range: 14 - 20 [A], defrosting heaters: 9000 [W], evaporators fans: 2000 (1 / 3 f) [W], condensers fans: 800 (1 f) [W], room light 800 [W], alarm: 100 [W], solenoid valve, compressor oil heater, supervision system: Telenet, Integrated four pole magnetothermic breaker 25 [A], dimensions (breadth x height x depth): 400 x 300 x 135 [mm], IP: 65, weight: 10 [kg]
47-321006-ECP300-E-VD707	switchboard PEGO ECP 300 EXPERT EVD707 PD/T14-20 [A], 400V, 50 / 60 Hz, read range: -45 / +45 [°C], for tree-phase installation in 7,5 HP, input: evaporator probe, ambient probe, door switch LP/HP pressureswitch, motor protection: Kriwan, output: 7 x reles, compressor: 3000 - 7500 [W], compressor motor circuit breaker range: 20 - 25 [A], defrosting heaters: 9000 [W], evaporators fans: 2000 (1 / 3 f) [W], condensers fans: 800 (1 f) [W], room light 800 [W], alarm: 100 [W], solenoid valve, compressor oil heater, supervision system: Telenet, Integrated four pole magnetothermic breaker 25 [A], dimensions (breadth x height x depth): 400 x 300 x 135 [mm], IP: 65, weight: 10 [kg]

## Timers

Models - daily with 15/30 min. bascules.  
Electrical parameters: 250 V - 16(4)A, 220 V.

Code	Description	
47-321003-30	timers – 30 min	
47-321003-55	timers - 15 min	
47-321003-100	timers – 15 min Graslin	

## Thermometers

Code	Description	Temperature range [°C]
<b>hanging thermometers</b>		
47-328001-00	hanging thermometers	-40/+50
47-328001-01	hanging thermometers	-40/+40
47-328001-03	thermometers, Ø= 53mm	-40/+20
<b>thermometers</b>		
47-328002-00	rectangular	- 40 / +40
47-328002-01	rectangular	- 40 / +40
47-328002-52	round, Ø = 52 mm, capillary 1,5 m	- 40 / +40
47-328002-60	round, Ø = 60 mm, capillary 1,5 m	- 40 / +40
47-328002-80	round, Ø = 80 mm, capillary 1,5 m	- 40 / +40
47-328002-100	round, Ø = 100 mm, capillary 1,5 m	- 40 / +40

<b>47-328001-00</b> 	<b>47-328001-01</b> 	<b>47-328001-03</b> 
<b>47-328002-00</b> 	<b>47-328002-01</b> 	<b>47-328002-52</b> 
<b>47-328002-60</b> 	<b>47-328002-80</b> 	<b>47-328002-100</b> 

**Thermometers - digital**
**Thermometers - digital**

Code	Description	Temperature range [°C]
<b>Thermometers - digital</b>		
47-328003-00	thermometers digital, resolution 0,1 [°C], probe 1 m, TMP10	-50/+70
47-328003-01	thermometers digital, resolution 0,1 [°C], probe 3 m	-50/+70
47-328003-02	thermometers digital, resolution 0,1 [°C], probe 1 m	-50/+300
47-328003-03	thermometers digital, panel mounting, Honeywell PTI-610	-49/+99
47-328003-14	thermometers digital, resolution 0,1 [°C], probe 1 m, ST1	-50/+70
47-328003-16	thermometers digital, panel mounting, 2 x probe, TMP-2000B	-49/+99
47-328003-31	hygrometer, bimetallic, 0 - 100% RH, Ø = 51 mm	
47-328003-50	thermometers digital solar, resolution 0,1 [°C], probe 1m	-20/+80

<b>47-328003-00</b> 	<b>47-328003-01</b> 	<b>47-328003-02</b> 
<b>47-328003-03</b> 	<b>47-328003-14</b> 	<b>47-328003-16</b> 
<b>47-328003-31</b> 	<b>47-328003-50</b> 	

**Thermometers - Testo**

Code	Description
47-328003-05607351	thermometers Testo 735-1, 0560 7351, 3 inputs type K/Pt 100
47-328003-06020393	fast-action surface probe for uneven surfaces, t max short-term up to +500°C Testo
47-328003-06024592	pipe clamp probe, for pipe with a diameter 5-65mm, T max +280, Testo 0602 4592
47-328003-06091273	probe Testo 0609 1273, waterproof - immersion / penetration probe Pt 100
47-328003-06280020	pipe wrap probe with velcro strip Testo 0628 0020, for pipe with a diameter 120 mm
47-328003-625	thermometers / hygrometer TESTO 625

**Thermostatic expansion valves T, TE, flare**

Danfoss

Thermostatic element T2 without orifice, capillary tube 1,5m.

Code	Valve type	Refrigerant	Range [°C]	MOP [°C]	Pressure equalization [SAE]	Capillary tube [m]	Connection	
							in x out [SAE]	in x out [mm]
47-32068Z3206	TX2	R22 R407C	-40 / +10		-	1,5	3/8 x 1/2	10 x 12
47-32068Z3208	TX2		-40 / +10	+15	-	1,5	3/8 x 1/2	10 x 12
47-32068Z3209	TEX2		-40 / +10		1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3211	TEX2		-40 / +10	+15	1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3496	TZ	R407C	-40 / +10		-	1,5	3/8 x 1/2	10 x 12
47-32068Z3516	TZ2		-40 / +10	+15	-	1,5	3/8 x 1/2	10 x 12
47-32068Z3501	TEZ2		-40 / +10		1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3517	TEZ2		-40 / +10	+15	1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3346	TN2	R134a	-40 / +10		-	1,5	3/8 x 1/2	10 x 12
47-32068Z3347	TN2		-40 / +10	+15	-	1,5	3/8 x 1/2	10 x 12
47-32068Z3348	TEN2		-40 / +10		1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3349	TEN2		-40 / +10	+15	1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3400	TS2	R404A R507	-40 / +10		-	1,5	3/8 x 1/2	10 x 12
47-32068Z3402	TS2		-40 / +10	+15	-	1,5	3/8 x 1/2	10 x 12
47-32068Z3406	TS2		-40 / -5	0	-	1,5	3/8 x 1/2	10 x 12
47-32068Z3408	TS2		-40 / -15	-10	-	1,5	3/8 x 1/2	10 x 12
47-32068Z3403	TES2		-40 / +10		1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3404	TES2		-40 / +10		1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3405	TES2		-40 / +10	+15	1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3409	TES2		-40 / -15	-10	1/4"	1,5	3/8 x 1/2	10 x 12
47-32068Z3411	TES2		-60 / -25	-20	1/4"	1,5	3/8 x 1/2	10 x 12

**Thermostatic expansion valves T, TE, solder**

Danfoss

Code	Valve type	Refrigerant	Pressure equalization [mm]	Capillary tube [m]	Connection [mm]		MOP [°C]	Range [°C]
					in	out		
47-32068Z3503	TEZ2	R407C	6	1,5	10	12	-	-40 / +10
47-32068Z3384	TN2	R134	-	1,5	10	12	-	-40 / +10
47-32068Z3435	TS2	R404A / R507		1,5	10	12	-	-40 / +10
47-32068Z3422	TES2		6	1,5	10	12	-	-40 / +10

Tx - without external pressure equalization

TEx - with external pressure equalization

**Orifice assembly**
**Danfoss**

The rated capacity is based on:  
 evaporating temperature  $t_e = +5\text{ °C}$   
 condensing temperature  $t_c = +47\text{-}32\text{ °C}$   
 refrigerant temperature  $t_f = +28\text{ °C}$



Type of orifice	Capacity [kW] for valves T/TE 2				Code	Code
	R22	R407C	R134a	R404A/507	flare version	solder version
0X	0,5	0,5	0,4	0,38	47-32068-2002	47-32068-2089
00	1,0	1,1	0,9	0,7	47-32068-2003	47-32068-2090
01	2,5	2,7	1,8	1,6	47-32068-2010	47-32068-2091
02	3,5	3,8	2,6	2,1	47-32068-2015	47-32068-2092
03	5,2	5,6	4,6	4,2	47-32068-2006	47-32068-2093
04	8,0	8,6	6,7	6,0	47-32068-2007	47-32068-2094
05	10,5	11,3	8,6	7,7	47-32068-2008	47-32068-2095
06	15,5	16,7	10,5	9,1	47-32068-2009	47-32068-2096

**Solder adaptor  
+ filters**
**Danfoss**

Code	Description
47-32068-0003	filter for flare connection Danfoss T/TE2
47-32068-0015	filter for solder connection Danfoss T/TE2
47-32068-4100	solder adaptor with filter Danfoss 10 mm ODF for valve T/TE2
47-32068-4101	solder adaptor with filter Danfoss 6 mm ODF for valve T/TE2,

**Thermostatic expansion  
valves, TUA/TUAE + orifices**
**Danfoss**

The rated capacity is based on:  
 evaporating temperature  $t_e = +5\text{ °C}$   
 condensing temperature  $t_c = +32\text{ °C}$   
 refrigerant temperature  $t_f = +28\text{ °C}$

Code	Valve type	Refrigerant	Range [°C]	MOP [°C]	Pressure equalization	Capillary tube [m]	Connection
							in x out ["/ mm]
47-32068U2200	TUA	R134a	-40 / +10	-	internal	1,5	6 x 12 mm
47-32068U2202	TUAE		-40 / +10	-	external 6 mm	1,5	6 x 12 mm
47-32068U2280	TUA	R404A	-40 / +10	-	internal	1,5	6 x 12 mm
47-32068U2282	TUAE		-40 / +10	-	external 6 mm	1,5	6 x 12 mm
47-32068U2287	TUAE		-40 / +10	-	1/4"	1,5	3/8 x 1/2"
47-32068U2283	TUAE		-40 / +10	-	external 6 mm	1,5	10 x 12 mm
47-32068U2780	TUAE	R410	-40 / +10	-	external 6 mm	1,5	10 x 12 mm
47-32068U2331	TUAE	R407C	-40 / +10	15	external 6 mm	1,5	10 x 12 mm
47-32068U3507	TUA / TUAE	bulb strap for valves Danfoss TUA / TUAE, l = 110 mm, max $\varnothing$ : 1 1/8" (28 mm)					
47-32068U0015	TUA / TCA	filters and gaskets for Danfoss TUA / TCA expansions valves					

Code	Type of orifice	Capacity [kW] for valves T/TE 2					
		R22	R134a	R404A	R407C	R507	R410A
47-32068U1030	00	0,6	0,47	0,47	0,63	0,45	-
47-32068U1031	01	0,9	0,7	0,7	0,92	0,66	1,3
47-32068U1032	02	1,3	1,0	1,0	1,4	1,0	2,10
47-32068U1033	03	1,8	1,4	1,4	1,9	1,3	2,9
47-32068U1034	04	2,6	2,1	2,1	2,8	2,0	4,5
47-32068U1035	05	3,5	2,7	2,8	3,8	2,7	5,9
47-32068U1036	06	5,3	4,1	4,2	5,7	4,0	9,0
47-32068U1037	07	7,0	5,5	5,6	7,5	5,3	12,0
47-32068U1038	08	11,0	8,2	8,4	11,0	8,0	18,0
47-32068U1039	09	16,0	12,0	12,0	17,0	12,0	26,0



**Thermostatic expansion valves, TUB / TUBE**

Danfoss

Range N: -40 to +10 °C  
with fixed orifice

The rated capacity is based on:  
evaporating temperature  $t_e = 4,4$  °C  
condensing temperature  $t_c = +38$  °C  
refrigerant temperature: +37 °C  
opening superheat OS = 4 K.



Code	Refrigerant	Valve type	Type of orifice	Capacity	Pressure equalisation	Connection
				[kW]		[- / mm]
						in x out
47-32068U1914	R407C	TUBE	4	2,5	external	6 x 12 mm
47-32068U1915		TUBE	5	3,4	external	6 x 12 mm
47-32068U1960	R410A	TUB	3	2,1	internal	1/4 x 1/2"
47-32068U1961		TUB	4	4,1	internal	1/4 x 1/2"
47-32068U1962		TUB	5	5,3	internal	1/4 x 1/2"
47-32068U1963		TUB	6	8,5	internal	1/4 x 1/2"
47-32068U1974		TUBE	8	15,8	external	3/8 x 1/2"
47-32068U1975		TUBE	9	23,1	external	3/8 x 1/2"
47-32068U2000	R134a	TUB	1	0,61	internal	6 x 12 mm
47-32068U2001		TUB	2	0,72	internal	6 x 12 mm
47-32068U2076	R404A/R507	TUB	1	0,71	internal	6 x 12 mm
47-32068U2077		TUB	2	0,87	internal	6 x 12 mm
47-32068U2088		TUBE	4	2	external	6 x 12 mm
47-32068U2089		TUBE	5	2,7	external	6 x 12 mm

**Thermostatic expansion valves, TCAE + orifices**

Danfoss

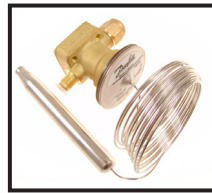
The rated capacity is based on:  
 evaporating temperature  $t_e = +5\text{ °C}$   
 condensing temperature  $t_c = +32\text{ °C}$   
 refrigerant temperature  $t_l = +28\text{ °C}$

Code	Valve type	Refrigerant	Range [°C]	MOP [°C]	Pressure equalisation [']	Capillary tube [m]	Connection [mm]
							in x out
47-32068U4308	TCAE	R404A/507	-40 / +10	-	6 mm	1,5	10 x 16

Code	Type of orifice	Capacity [kW] for valves T/TE 2					
		R22	R134a	R404A	R407C	R507	R410A
47-32068U4100	01	17,5	12,0	13,5	19,0	13,5	23,0
47-32068U4101	02	21,0	14,5	16,0	23,0	16,0	27,5
47-32068U4102	03	26,5	18,0	20,0	28,5	20,0	34,0

**Thermostatic expansion valves - thermostatic element**

Danfoss



Code	Type	Refrigerant	Range [°C]	MOP [°C]	Pressure equalisation (1/4" / 6 mm)	Capillary tube [m]
47-32067B3278	TEZ 5	R407C	-40 / +10	-	external	3
47-32067B3366	TEZ 12		-40 / +10	-	external	3
47-32067B3367	TEZ 12		-40 / +10	+15	external	3
47-32067B3371	TEZ 20		-40 / +10	-	external	3
47-32067B3297	TEN 5	R134a	-40 / +10	-	external	3
47-32067B3232	TEN 12		-40 / +10	-	external	3
47-32067B3342	TES 5	R404A / R507	-40 / +10	-	external	3
47-32067B3358	TES 5		-40 / -15	-10	external	3
47-32067B3344	TES 5		-60 / -25	-	external	3
47-32067B3347	TES 12		-40 / +10	-	external	3
47-32067B3349	TES 12		-60 / -25	-20	external	3
47-32067B3352	TES 20		-40 / +10	-	external	3
47-32067B3351	TES 20		-40 / -5	0	external	3
47-32067B3250	TEX 5	R22	-40 / +10	-	external	3

**Thermostatic expansion valves -  
valve body**

Danfoss

Valve type	Connection [mm]	Connection type	Straight way	Angle way
TE 5	12 x 16	ODF x ODF	47-32067B4002	47-32067B4004
	12 x 22	ODF x ODF	47-32067B4003	
	16 x 22	ODF x ODF		47-32067B4012
TE 12	16 x 22	ODF x ODF	47-32067B4018	
	22 x 28	ODF x ODM	47-32067B4016	47-32067B4017
TE 20	22 x 28	ODF x ODM	47-32067B4016	47-32067B4017

**Thermostatic expansion valves -  
orifices**

Danfoss

The rated capacity is based on:  
 evaporating temperature  $t_e = +5\text{ °C}$   
 condensing temperature  $t_c = +32\text{ °C}$   
 refrigerant temperature  $t_1 = +28\text{ °C}$

Code	Orifice type	Capacity [kW] for valve TE5, TE12, TE20			
		R22	R407C	R134a	R404A/507
47-32067B2789	TE5 - 1	19,1	19,6	12,2	14,9
47-32067B2790	TE5 - 2	26,3	27,2	17,0	20,5
47-32067B2791	TE5 - 3	33,8	34,8	21,8	26,3
47-32067B2792	TE5 - 4	46,0	47,4	29,7	35,7
47-32067B2005	TE12 - 1	26,8	28,9	16,7	14,8
47-32067B2708	TE12 - 5	57,2	55,8	37,7	50,7
47-32067B2709	TE12 - 6	76,3	73,9	50,1	64,0
47-32067B2710	TE12 - 7	97,8	94,3	65,7	81,3
47-32067G2771	TE20 - 8	128,0	118,0	77,8	87,1
47-32067G2773	TE20 - 9	150,0	136,0	92,3	102,0

**Automatic expansion valves -  
AEL**

Honeywell

Automatic expansion valve AEL with fixed orifice and internal pressure equalisation - adjustable evaporating pressure  
 For refrigerant R-12, R-134a, R-401A, R-402A, R-404A, R-407A, R-407B, R-407C, R-410A, R422D, R502, R-507

Code	Valve type	Connection ODF	Adjustable evaporating pressure	Nominal cooling capacity [kW]	
				R134a	R404A
47-32AEL-222200	AEL 0.5	6 x 10 mm	1 - 7 bar	1	0,97
47-32AEL-222201	AEL 1.0	6 x 10 mm	1 - 7 bar	1,4	1,4
47-32AEL-222202	AEL 2.0	6 x 10 mm	1 - 7 bar	2,9	2,8



Code	Valve type	Connection ODF	Adjustable evaporating pressure	Nominal cooling capacity [kW]	
				R134a	R404A
47-32AEL-222203	AEL 3.0	6 x 10 mm	1 - 7 bar	6,6	6,5
47-32AEL-222204	AEL 4.0	6 x 10 mm	1 - 7 bar	8,7	8,6
47-32AEL-222185	AEL 5.0	3/8" x 5/8"	1 - 7 bar	15,9	15,8
47-32AEL-222205	AEL 6.0	10 x 16 mm	1 - 7 bar	20	20,5
47-32AEL-Y26057	AEL 7.0	3/8" x 5/8"	1 - 9 bar		

The rated capacity is based on:  
 evaporating temperature  $t_0 = +4$  [°C]  
 condensing temperature  $t_c = +38$  [°C]  
 subcooling 1 [K]

### Thermostatic expansion valves - TLK

Honeywell

Thermostatic expansion valves with fixed orifice and internal pressure equalisation. With fixed superheat setting.

Code	Valve type	MOP [°C]	Refrigerant	Connection [mm]
47-32TLK-00105	TLK 0,3	+10	R22	6 x 10 ODF
47-32TLK-00057	TLK 0,5	+10		6 x 10 ODF
47-32TLK-00003	TLK 1,0	+10		6 x 10 ODF
47-32TLK-00072	TLK 0,5	± 0	R134a	6 x 10 ODF
47-32TLK-00066	TLK 0,5	+10		6 x 10 ODF
47-32TLK-00064	TLK 0,5	+15		6 x 10 ODF
47-32TLK-00094	TLK 0,7	± 0		6 x 10 ODF
47-32TLK-00092	TLK 0,7	+10		6 x 10 ODF
47-32TLK-00093	TLK 0,7	+10		1/4" x 3/8" ODF
47-32TLK-00090	TLK 0,7	+15		6 x 10 ODF
47-32TLK-00019	TLK 1,0	± 0		6 x 10 ODF
47-32TLK-00012	TLK 1,0	+10		6 x 10 ODF
47-32TLK-00010	TLK 1,0	+15		6 x 10 ODF
47-32TLK-00037	TLK 1,5	+15		6 x 10 ODF
47-32TLK-00054	TLK 1,5	+20		10 x 12 ODF
47-32TLK-00131	TLK 2,0	+10		10 x 12 ODF
47-32TLK-00120	TLK 0,3	+0	R404A	6 x 10 ODF
47-32TLK-00076	TLK 0,5	±0		6 x 10 ODF
47-32TLK-00074	TLK 0,5	+10		6 x 10 ODF
47-32TLK-00098	TLK 0,7	±0		6 x 10 ODF
47-32TLK-00023	TLK 1,0	±0		6 x 10 ODF
47-32TLK-00048	TLK 1,5	±0		6 x 10 ODF

**Thermostatic expansion valves**  
**TLEX**

Honeywell

Thermostatic expansion valves with fixed orifice and external pressure equalisation and with adjustable superheat setting.

Code	Valve type	MOP [°C]	Refrigerant	Connection [mm]	
47-32TLEX-00083	TLEX 2,5	without	R134a	3/8" x 1/2" x 1/4" ODF	
47-32TLEX-00041	TLEX 1,5	without	R404A	10 x 12 x 6 ODF	
47-32TLEX-00089	TLEX 2,5	without		10 x 12 x 6 ODF	
47-32TLEX-00115	TLEX 3,0	without		10 x 12 x 6 ODF	
47-32TLEX-00114	TLEX 3,0	+10		10 x 12 x 6 ODF	
47-32TLEX-00326	TLEX 3,5	+10		10 x 12 x 6 ODF	
47-32TLEX-00179	TLEX 4,5	without		10 x 16 x 6 ODF	
47-32TLEX-00325	TLEX 4,5	+10		10 x 16 x 6 ODF	
47-32TLEX-00490	TLEX 2,0	+10		R407C	10 x 12 x 6 ODF
47-32TLEX-00491	TLEX 2,5	+10	10 x 12 x 6 ODF		
47-32TLEX-00252	TLEX 3,0	+5	10 x 12 x 6 ODF		
47-32TLEX-00324	TLEX 3,0	+10	10 x 12 x 6 ODF		
47-32TLEX-E0658	TLEX 3,0	+15 / -30	10 x 12 x 6 ODF		
47-32TLEX-00492	TLEX 3,5	+10	10 x 12 x 6 ODF		
47-32TLEX-00530	TLEX 3,5	without	10 x 12 x 6 ODF		
47-32TLEX-E0659	TLEX 3,5	+15 / -30	10 x 12 x 6 ODF		
47-32TLEX-00150	TLEX 4,5	without	10 x 16 x 6 ODF		
47-32TLEX-00152	TLEX 4,5	without	12 x 16 x 6 ODF		
47-32TLEX-00499	TLEX 4,5	+10	12 x 16 x 6 ODF		
47-32TLEX-00532	TLEX 4,5	without	12 x 16 x 6 ODF		
47-32TLEX-E0660	TLEX 4,5	+15 / -30	12 x 16 x 6 ODF		
47-32TLEX-20025	TLEX 4,75	+15	12 x 16 x 6 ODF		
47-32TLEX-20093	TLEX 5,0	+15	12 x 16 x 6 ODF		
47-32TLEX-20186	TLEX 6,0	+15	16 x 22 x 6 ODF		
47-32TLEX-E0310	TLEX 7,0	+8	16 x 22 x 6 ODF		
47-32TLEX-20127	TLEX 10	+15	22 x 28 x 6 ODF		
47-32TLEX-00268	TLEX 0,7	+15	R410A		6 x 12 x 6 ODF
47-32TLEX-00015	TLEX 1,0	+15			6 x 12 x 6 ODF
47-32TLEX-00269	TLEX 1,5	+15		10 x 12 x 6 ODF	
47-32TLEX-00262	TLEX 2,0	+15		10 x 12 x 6 ODF	
47-32TLEX-00270	TLEX 2,5	+15		10 x 12 x 6 ODF	
47-32TLEX-00271	TLEX 3,0	+15		10 x 12 x 6 ODF	
47-32TLEX-00272	TLEX 3,5	+15		10 x 12 x 6 ODF	
47-32TLEX-00273	TLEX 4,5	+15		10 x 16 x 6 ODF	
47-32TLEX-00350	TLEX 0,5	-40	R508B	6 x 12 x 6 ODF	
47-32TLEX-00353	TLEX 1,5	-40		6 x 12 x 6 ODF	
47-32TLEX-00317	TLEX 2,0	-40	R23	10 x 12 x 6 ODF	

**Thermostatic expansion valves**  
**TMV, TMVX, TMVXBL**
**Honeywell**

Code	Valve type	Refrigerant	Range [°C]	Connection in x out x equalisation
47-32TMV-00001	TMV-00001	R22, R407C, R422D	+15 / -45	5/8" x 3/4" UNF
47-32TMV-00005	TMV-00005	R134a, R401A	+15 / -30	5/8" x 3/4" UNF
47-32TMV-00008	TMV-00008	R404A, R507A	0 / -50	5/8" x 3/4" UNF
47-32TMV-00012	TMV-00012	R404A, R507A	+15 / -30	5/8" x 3/4" UNF
47-32TMVBL-00112	TMVBL-00112	R404A, R507A	+15 / -30	5/8" UNF x 12 mm ODF

47-32TMVX-00101	TMVX-00101	R22, R407C, R422D	+15 / -45	5/8" x 3/4" x 7/16" UNF
47-32TMVX-00104	TMVX-00104	R22, R407C, R422D	+15 / -45	5/8" x 3/4" x 7/16" UNF
47-32TMVX-00105	TMVX-00105	R134a, R401A	+15 / -30	5/8" x 3/4" x 7/16" UNF
47-32TMVX-00108	TMVX-00108	R404A, R507A	0 / -50	5/8" x 3/4" x 7/16" UNF
47-32TMVX-00109	TMVX-00109	R404A, R507A	-27 / -50	5/8" x 3/4" x 7/16" UNF
47-32TMVX-00110	TMVX-00110	R404A, R507A	-20 / -50	5/8" x 3/4" x 7/16" UNF
47-32TMVX-00112	TMVX-00112	R404A, R507A	+15 / -30	5/8" x 3/4" x 7/16" UNF

47-32TMVXBL-00101	TMVXBL-00101	R22, R407C, R422D	+15 / -45	5/8" UNF x 12 x 6 mm ODF
47-32TMVXBL-00107	TMVXBL-00107	R134a, R401A	+5 / -30	5/8" UNF x 12 x 6 mm ODF
47-32TMVXBL-00111	TMVXBL-00111	R404A, R507A	-10 / -50	5/8" UNF x 12 x 6 mm ODF
47-32TMVXBL-00112	TMVXBL-00112	R404A, R507A	+15 / -30	5/8" UNF x 12 x 6 mm ODF
47-32TMVXBL-00117	TMVXBL-00117	R407C	-30 / +30	5/8" UNF x 12 x 6 mm ODF
47-32TMVXBL-00118	TMVXBL-00118	R410A	+15 / -20	5/8" UNF x 12 x 6 mm ODF
47-32TMVXBL-00205	TMVXBL-00205	R134a, R401A	-30 / 15	5/8" UNF x 1/2" x 1/4" ODF

TMV - internal pressure equalisation

TMVX - external pressure equalisation

TMVXBL - flare x solder connections, () = flare connections, external pressure equalisation

TMVBL - internal pressure equalisation

**Orifice for valve**  
**TMV, TMVX, TMVXBL**
**Honeywell**

Code	Orifice size	R22	R134a	R404A	R407C	R422D	R507A
47-32VD-003	0.3	0,52	0,36	0,36	0,50	0,36	0,36
47-32VD-005	0.5	0,99	0,69	0,68	0,95	0,67	0,69
47-32VD-007	0.7	1,4	1,0	0,97	1,3	0,92	0,98
47-32VD-010	1.0	2,0	1,4	1,4	1,9	1,3	1,4
47-32VD-015	1.5	3,2	2,2	2,2	3,1	2,2	2,3
47-32VD-020	2.0	4,0	2,9	2,8	3,9	2,7	2,9
47-32VD-025	2.5	5,8	4,0	4,1	5,6	3,9	4,1
47-32VD-030	3.0	9,3	6,6	6,5	8,9	6,3	6,6
47-32VD-035	3.5	12,2	8,7	8,6	11,7	8,3	8,7
47-32VD-045	4.5	17,0	11,8	12,0	16,4	11,3	12,1
47-32VD-475	4.75	22,4	15,9	15,8	21,6	15,3	15,9

 Nominal capacity is based on:  $t_0 = +4\text{ °C}$ ,  $t_c = +38\text{ °C}$  and 1 K subcooling.

### Nominal capacity for orifices

Honeywell

Orifice type	Refrigerant								
	R22	R134a	R404A	R407A	R407C	R410A	R422D	R502	R507
0.3	0.52	0.36	0.36	0.51	0.50	0.62	0.36	0.35	0.36
0.5	0.99	0.69	0.68	0.96	0.95	1.2	0.67	0.65	0.69
0.7 (AEL 0.5)	1.4	1.0	0.97	1.3	1.3	1.6	0.92	0.90	0.98
1.0 (AEL 1.0)	2.0	1.4	1.4	1.9	1.9	2.4	1.3	1.4	1.4
1	3.2	2.2	2.2	3.1	3.1	3.8	2.2	2.2	2.3
2.0 (AEL 2.0)	4.0	2.9	2.8	3.9	3.9	4.8	2.7	2.8	2.9
2.5	5.8	4.0	4.1	5.6	5.6	6.9	3.9	4.0	4.1
3.0 (AEL 3.0)	9.3	6.6	6.5	9.0	8.9	11.1	6.3	6.4	6.6
3.5 (AEL 4.0)	12.2	8.7	8.6	11.9	11.7	14.6	8.3	8.6	8.7
4.5	17.0	11.8	12.0	16.5	16.4	20.3	11.3	11.4	12.1
4.75 (AEL 5)	22.4	15.9	15.8	21.8	21.6	26.8	15.3	14.5	15.9
5 (AEL 6)	29.1	20.0	20.5	28.3	28.0	34.8	19.8	19.8	20.7
6	42.4	27.6	29.8	41.3	40.8	50.8	28.9	27.9	30.1
7	54.5	35.3	38.3	53.1	52.5	65.3	37.1	34.9	38.7
8	64.1	43.3	45.1	62.5	61.8	76.9	43.7	44.2	45.9
10	75.1	51.0	52.8	73.2	72.3	90.0	51.2	51.2	53.3
11	95.8	65.0	67.4	93.4	92.3	115	65.3	65.3	68.0

The rated capacity is based on:

$t_0$	+4°C	+4°C	+4°C	+4°C dew	+4°C dew	+4°C	+4°C dew	+4°C	+4°C
$t_c$	+38°C	+38°C	+38°C	+38°C bubble	+38°C bubble	+38°C	+38°C bubble	+38°C	+38°C
$\Delta t_{c2u}$	1 K	1 K	1 K	1 K	1 K	1 K	1 K	1 K	1 K

### Thermostatic expansion valves TMVL / TMVLS

Honeywell

Code	Type	Refrigerant	Temperature range
47-32TMVL-00101	TMVL-00101	R22 / R407C	+15 / -45°C
47-32TMVL-00108	TMVL-00108	R404A / R507	+0 / -50°C
47-32TMVL-00111	TMVL-00111	R410A	+15 / -20°C
47-32TMVL-00113	TMVL-00113	R404A / R507	+15 / -30°C

Code	Type	Valve type	Connection
47-32TMVLS-00102	TMVLS-00102	angle	10 x 12 mm ODF
47-32TMVLS-00103	TMVLS-00103	straight	10 x 12 mm ODF
47-32TMVLS-00104	TMVLS-00104	straight	12 x 16 mm ODF
47-32TMVLSX-00102	TMVLSX-00102	angle	10 x 12 x 6 mm ODF
47-32TMVLSX-00103	TMVLSX-00103	straight	10 x 12 x 6 mm ODF

**Thermostatic expansion valves -  
thermostatic element**

Honeywell

Code	Type	Refrigerant	Connecting pressure equalization
47-32TMX-00014	TMX-00014	R22	1/4" SAE
47-32TMX-00028	TMX-00028	R134a, MOP + 10°C	1/4" SAE
47-32TMX-00030	TMX-00030	R134	1/4" SAE
47-32TMX-00037	TMX-00037	R404A, MOP +10°C	1/4" SAE
47-32TMX-00039	TMX-00039	R404A, MOP -10°C	
47-32TMX-00040	TMX-00040	R404A, MOP -18°C	
47-32TMX-00042	TMX-00042	R404A	
47-32TMX-00047	TMX-00047	R227	
47-32TMX-00051	TMX-00051	R407C, MOP +15°C	1/4" SAE
47-32TMX-00060	TMX-00060	R410A, MOP +15°C	1/4" SAE
47-32TMX-00066	TMX-00066	R407C	1/4" SAE


**Thermostatic expansion valves -  
valve body**

Honeywell

Code	Type	Valve type	Connection
47-32TMXBS-00001	TMXBS-00001	direct	7/8" x 7/8" UNF
47-32TMXLS-00001	TMXLS-00001	direct	12 + 16 x 16 + 22 mm
47-32TMXLS-00002	TMXLS-00002	direct	1/2" + 5/8" x 5/8" + 7/8"
47-32TMXLS-00003	TMXLS-00003	angle	12 + 16 x 16 + 22 mm

**Thermostatic expansion valves -  
orifices**

Honeywell

Code	Type
47-32XD-0045	TMXD-00107
47-32XD-00475	TMXD-00101
47-32XD-005	TMXD-00102
47-32XD-006	TMXD-00103
47-32XD-007	TMXD-00104
47-32XD-008	TMXD-00105
47-32XD-010	TMXD-00106
Orifice for valve TMX - R410A (only for MOP +15°C up to -20°C)	
47-32XD-4,5-HP	TMXD-00207
47-32XD-4,75-HP	TMXD-00201
47-32XD-5-HP	TMXD-00202
47-32XD-6-HP	TMXD-00203
47-32XD-7-HP	TMXD-00204
47-32XD-8-HP	TMXD-00205
47-32XD-10-HP	TMXD-00206



Orifice type	Refrigerant							
	R22	R134a	R401A	R404A	R407C	R410A	R422D	R507A
4.5	17.0	11.8	13.7	12.0	16.4	20.3	11.3	12.1
4.75	22.4	15.9	18.0	15.8	21.6	26.8	15.3	15.9
5	29.1	20.0	23.4	20.5	28.0	34.8	19.8	20.7
6	42.4	27.6	34.1	29.8	40.8	50.8	28.9	30.1
7	54.5	35.3	43.8	38.3	52.5	65.3	37.1	38.7
8	64.1	43.3	52.7	45.1	61.8	76.9	43.7	45.6
10	75.1	51.0	60.4	52.8	72.3	90.0	51.2	53.3

The rated capacity is based on  $t_0 = +4\text{ °C}$ ,  $t_c = +38\text{ °C}$  and 1 K subcooling.

### Pulse width modulated with exchangable orifices

Alco

Pulse width modulated with exchangable orifices, CFC, HCFC, HFC for evaporating temperatures -40 up to 15°C, in 10 mm ODF, out 12 mm ODF, regulation 10-100%.

Code	Type	Capacity $Q_n$ at 100% open valve (kW)				Connection
		Capacity $Q_n$ at 100% open valve (kW)	R-22	R-404A	R-407C	
47-32EX2-M00	EX2-M00	13,3	17,2	12,1	18,7	10/12 ODF
47-32ASC-24AC	ASC 24V	coil 24V AC, 50/60Hz, 8W, 801062				

The rated capacity is based on R407C (dew point):  $T_0 = +4\text{ °C}$ ,  $t_c = +43\text{ °C}$ , subcooling: 1K

The rated capacity is based on R22, R134a, R404A, R507:  $T_0 = +4\text{ °C}$ ,  $t_c = +38\text{ °C}$ , subcooling: 1K

### Orifices for pulse width modulated EX2

Alco

Code	Type	Extended capacity [kW]			
		R-134a	R-22	R-404A	R-407C
47-32EXO-00X	EXO-00X	0.7	0.9	0.6	1,0
47-32EXO-000	EXO-000	1.2	1.6	1.1	1.7
47-32EXO-001	EXO-001	2.5	3.2	2.3	3.5
47-32EXO-002	EXO-002	3.3	4.3	3,0	4.7
47-32EXO-003	EXO-003	5.6	7.2	5.1	7.8
47-32EXO-004	EXO-004	8.5	10.9	7.7	11.8

**Electrical control valves  
+ accessories**

Alco

Code	Flow pattern	Capacity $Q_n$ at 100 % open valve [kW]				Connection ODF [mm]
		R134a	R22	R404A	R407C	
47-32EX4-M21	uni-flow	1-13	2-17	1-12	2-17	10 / 16
47-32EX5-U21	uni-flow	4-39	5-50	4-35	5-53	16 / 22
47-32EX5-U31	bi-flow	4-39	5-50	4-35	5-53	16 / 22
47-32EX6-M21	uni-flow	10-93	15-120	10-84	15-126	22 / 28
47-32EX7-M21	uni-flow	25-255	35-330	25-230	35-347	28 / 35
47-32EX8-M21	uni-flow	70-680	90-880	60-613	100-925	42 / 42

 The rated capacity is based on :R407C  $t_0=+4^{\circ}\text{C}$  (dew point),  $t_c=+43^{\circ}\text{C}$  (dew point), subcooling: 1 K

 The rated capacity is based on: R22, R134a, R404A, R410A  $t_0=+4^{\circ}\text{C}$ ,  $t_c=+38^{\circ}\text{C}$ , subcooling: 1 K

Code	Type	Description
47-32EXV-M15	EXV-M15	cable connector assemblies EX4/EX8, l = 1,5 m
47-32EXV-M30	EXV-M30	cable connector assemblies EX4/EX8, l = 3 m
47-32EXV-M60	EXV-M60	cable connector assemblies EX4/EX8, l = 6 m

**Thermo-expansion  
valves**

Alco

E - external pressure equalisation

Connection type: in 5/8" - 18 UNF, out 3/4" - 16 UNF

 The rated capacity is based on: R407 - evaporating temperature  $+4^{\circ}\text{C}$  dew point, condensing temperature  $+38^{\circ}\text{C}$  bubble point /  $+43^{\circ}\text{C}$  dew point, subcooling 1K

Code	Alco code	Refrigerant	Equalisation / MOP	Connection (in x out x equalisation)	Range [ $^{\circ}\text{C}$ ]
47-32TI-HW	802420	R22	external	3/8" x 1/2" SAE	-45 to +20
47-32TISE-HW	802423		external	3/8" SAE x 12 mm ODS x 6 mm ODS	-45 to +20
47-32TI-MW	802445	R134a	internal	3/8" x 1/2" SAE	-45 to +20
47-32TIE-MW	802446		external	3/8" SAE x 1/2" SAE x 7/16" SAE	-45 to +20
47-32TIS-MW	802447		internal	3/8" SAE x 12 mm ODS	-45 to +20
47-32TISE-MW	802450		external	3/8" SAE x 1/2" ODS x 1/4 " ODS	-45 to +20
47-32TISE-MW55	802457		external / $+14^{\circ}\text{C}$	3/8" SAE x 1/2" ODS x 1/4 " ODS	-45 to +20
47-32TI-SW	802459		R404A / R507	internal	3/8" x 1/2" SAE
47-32TIE-SW	802460	external		3/8" SAE x 1/2" SAE x 7/16" SAE	-45 to +20
47-32TIS-SW	802461	internal		3/8" SAE x 12 mm ODS	-45 to +20
47-32TISE-SW	802464	external		3/8" SAE x 1/2" ODS x 1/4 " ODS	-45 to +20

Code	Alco code	Refrigerant	Equalisation / MOP	Connection (in x out x equalisation)	Range [°C]
47-32TI-NW	802435	R407C	internal	3/8" x 1/2" SAE	-45 to +20
47-32TIE-NW	802436		external	3/8" SAE x 1/2" SAE x 7/16" SAE	-45 to +20
47-32TIS-NW	802439		internal	3/8" SAE x 1/2" ODS	-45 to +20
47-32TISE-NW	802438		external	3/8" SAE x 12 mm ODS x 6 mm ODS	-45 to +20

## Orifices

## Alco

The rated capacity is based on:

- R22, R134a, R404A, R410A, R507 - evaporating temperature +4°C, condensing temperature +38°C, subcooling 1K
- R407 - evaporating temp. +4°C dew point, condensing temp. +38°C bubble point / +43°C dew point, subcooling 1K

Code	Type	Capacity [kW]			
		R22	R134a	R404A / R507	R407C
47-32TIO-00X	TIO-00X	0,5	0,3	0,4	0,5
47-32TIO-000	TIO-000	1,3	0,8	1	1,4
47-32TIO-001	TIO-001	3,2	1,9	2,3	3,5
47-32TIO-002	TIO-002	5,3	3,1	3,9	5,7
47-32TIO-003	TIO-003	8,5	5	6,2	9,2
47-32TIO-004	TIO-004	13,9	8,3	10,1	15
47-32TIO-005	TIO-005	16,9	10,1	12,3	18,3
47-32TIO-006	TIO-006	19,5	11,7	14,2	21,1

## Thermostatic expansion valve TX3

## Alco

Code	Alco code	Refrigerant	Nominal capacity [kW]	MOP [°C]	Equalisation	Connection	
47-32TX3-H36	801752M	R22	10,7	+ 13	external 1/4" ODF	3/8" x 1/2" ODF	
47-32TX3-N22	801818M	R407C	2,5	-	external 1/4" ODF	1/4" x 3/8" ODF	
47-32TX3-N24	801820M		5,6	-	external 1/4" ODF	3/8" x 1/2" ODF	
47-32TX3-N25	801821M		8,4	-	external 1/4" ODF	3/8" x 1/2" ODF	
47-32TX3-N26	801822M		11,6	-	external 1/4" ODF	3/8" x 1/2" ODF	
47-32TX3-N27	801823M		14,2	-	external 1/4" ODF	1/2" x 5/8" ODF	
47-32TX3-N28	801824M		16,9	-	external 1/4" ODF	1/2" x 5/8" ODF	
47-32TX3-N29	801825M		23,0	-	external 1/4" ODF	1/2" x 5/8" ODF	
47-32TX3-N36	801835M		11,6	+14,5	external 1/4" ODF	3/8" x 1/2" ODF	
47-32TX3-N37	801836M		14,2	+14,5	external 1/4" ODF	1/2" x 5/8" ODF	
47-32TX3-N38	801837M		16,9	+14,5	external 1/4" ODF	1/2" x 5/8" ODF	
47-32TX3-N39	801838M		23,0	+14,5	external 1/4" ODF	1/2" x 5/8" ODF	
47-32TX3-S26	801870M		R404A / R507	7,6	-	external 1/4" ODF	3/8" x 1/2" ODF
47-32TX3-S27	801871M			9,2	-	external 1/4" ODF	1/2" x 5/8" ODF
47-32TX3-S28	801872M	11,0		-	external 1/4" ODF	1/2" x 5/8" ODF	
47-32TX3-S29	801873M	15,0		-	external 1/4" ODF	1/2" x 5/8" ODF	



**Thermostatic expansion valve TX6**

Alco

Code	Alco code	Refrigerant	Nominal capacity [kW]	MOP [°C]	Equalisation	Connection
47-32TX6-N02	801651	R407C	14,4	-	external 1/4" ODF	1/2" x 5/8" ODF
47-32TX6-N03	801652		25,6	-	external 1/4" ODF	12 x 16 mm
47-32TX6-N04	801659		35,7	-	external 1/4" ODF	16 x 22 mm
47-32TX6-N05	801660		45,2	-	external 1/4" ODF	16 x 22 mm
47-32TX6-N12	801655		14,4	+17 °C	external 1/4" ODF	12 x 16 mm
47-32TX6-N13	801656		25,6	+17°C	external 1/4" ODF	12 x 16 mm
47-32TX6-N14	801667		35,7	+17°C	external 1/4" ODF	16 x 22 mm
47-32TX6-N15	801668		45,2	+17°C	external 1/4" ODF	16 x 22 mm
47-32TX6-N16	801669		66,9	+17°C	external 1/4" ODF	22 x 28 mm
47-32TX6-N17	801670		87,3	+17°C	external 1/4" ODF	22 x 28 mm
47-32TX6-Z12MM	801510	R410A	16	+16°C	external 1/4" ODF	12 x 16 mm
47-32TX6-Z13MM	801512		28	+16°C	external 1/4" ODF	12 x 16 mm
47-32TX6-Z14MM	801514		40	+16°C	external 1/4" ODF	16 x 22 mm
47-32TX6-Z15MM	801516		50	+16°C	external 1/4" ODF	16 x 22 mm
47-32TX6-Z16MM	801518		74	+16°C	external 1/4" ODF	22 x 28 mm

**Thermostatic expansion valve - thermostatic element**

Alco

Code	Refrigerant	MOP	Range [°C]	Connection	Capillary length
47-32XB1019HW-1B	R22	-	-45 to +75	7/16" UNF	1,5 m
47-32XB1019HW100-1B		+15°C	-45 to +75	7/16" UNF	1,5 m
47-32XB1019MW-1B	R134a	-	-45 to +75	7/16" UNF	1,5 m
47-32XC726MW-2B		-	-45 to +75	7/16" UNF	3 m
47-32XB1019NW-1B	R407C	-	-45 to +20	7/16" UNF	1,5 m
47-32XB1019NW100-1B		+17°C	-45 to +17	7/16" UNF	1,5 m
47-32XB1019NW-2B		-	-45 to +20	7/16" UNF	3 m
47-32XC726NW-2B		-	-45 to +20	7/16" UNF	3 m
47-32XC726NW100-2B		+17°C	-45 to +17	7/16" UNF	3 m
47-32XB1019SW-1B	R404A / R507	-	-45 to +20	7/16" UNF	1,5 m
47-32XB1019SW40-1B		-14°C	-45 to -14	7/16" UNF	1,5 m
47-32XB1019SW80-1B		+2°C	-45 to +2	7/16" UNF	1,5 m
47-32XB1019SW80-2B		+2°C	-45 to +2	7/16" UNF	3 m
47-32XC726SW-2B		-	-45 to +20	7/16" UNF	3 m
47-32XC726SW-40-2B		-14°C	-45 to -14	7/16" UNF	3 m

**Thermostatic expansion valve -  
valve body**

Alco

Code	Alco code	Flange style	Connection
47-32C501-5MM	803233	angle	solder 10 mm x 16 mm ODF
47-32C501-7MM	803235	angle	solder 12 mm x 16 mm ODF
47-32A576MM	803239	angle	solder 16 mm x 22 mm, ODF
47-32A576	803238	angle	solder 5/8" x 7/8", ODF
47-3210331	803338	angle	solder 22 x 22 mm, ODF
47-329153MM	803245	angle	solder 22 x 22 mm, ODF
47-329149	803284	angle	solder 7/8" x 7/8", ODF

**Thermostatic expansion valve -  
orifices**

Alco

The rated capacity is based on:

- R22, R134a, R404A, R410A, R507 - evaporating temperature +4°C, condensing temperature +38°C, subcooling 1K
- R407 - evaporating temperature +4°C dew point, condensing temperature +38°C bubble point / +43°C dew point, subcooling 1K

Code	Alco code	Capacity [kW]				For valve body
		R134a	R22	R404A / R507	R407A	
47-32X22440-B2B	803211	2,9	3,7	2,6	4	C501-5mm (10 x 16 mm)
47-32X22440-B3B	803212	6,1	7,9	5,6	8,5	
47-32X22440-B3,5B	803462	9,3	11,9	8,4	12,9	
47-32X22440-B4B	803213	13,5	17,3	12,2	18,7	
47-32X22440-B5B	803214	17,3	22,2	15,7	24	C501-7mm (12 x 16 mm)
47-32X22440-B6B	803215	23,6	30,4	21,5	32,9	
47-32X22440-B7B	803216	32,0	41,1	29,0	44,4	A576MM (16 x 22 mm ODS) (22 x 28 mm ODM)
47-32X22440-B8B	803217	37,2	47,8	33,8	51,7	
47-32X11873-B4B	803348	45	58	40	62	10331 (22 x 22 mm)
47-32X11873-B5B	803349	57	74	51	80	
47-32X9117-B6B	803341	71	91	63	99	9153MM (22 x 22 mm)
47-32X9117-B7B	803342	81	104	72	112	
47-32X9117-B8B	803343	112	143	99	155	
47-32X9117-B9B	803344	135	174	120	188	
47-32X9166-B10B	803347	174	223	154	241	9149 (22 x 22 mm)
47-32X9144-B11B	803345	197		174	273	
47-32X9144-B13B	803346	236		209	327	
47-32X22440-TESNENI	seal for orifice ALCO X22440					

**Electronic expansion valves  
+ accessories**
**Carel**

The rated capacity is based on:

 R407C, R134a and R410A: evaporating temperature 5 °C, condensing temperature 38 °C, subcooling 2K;  
 R404A evaporating temperature -15°C, condensing temperature 38°C, subcooling 2K.

Code	Type	Capacity [kW]				Connection [mm]
		R-134a	R-410A	R-404A	R-407C	
47-32E2V05BWA00	E2V05BWA00	1,22	1,85	1,18	1,6	
47-32E2V09BSF00	E2V09BSF00	2,1	3,2	2,0	2,8	12 x 12
47-32E2V11BSF00	E2V11BSF00	3,7	5,6	3,55	4,8	12 x 12
47-32E2V14BSF00	E2V14BSF00	5,7	8,5	5,4	7,5	12 x 12
47-32E2V18BSF00	E2V18BSF00	8,4	12,4	7,7	10,8	12 x 12
47-32E2V24BSF00	E2V24BSF00	16,0	24,0	15,3	21,0	12 x 12
47-32E2V24BSM00	E2V24BSM00	16,0	24,0	15,3	21,0	16 x 16
47-32E2V30BSM00	E2V30BSM00	25,8	38,2	24,8	33,5	16 x 16
47-32E2V35BSM00	E2V35BSM00	32,8	49,0	31,2	42,5	16 x 16
47-32E3V45ASR00	E3V45ASR00	57,0	86,0	54,8	75,0	18 x 22

Code	Description
47-32E2VCABS300	connector and shielded cable Carel for E2V


**4-way reversing valves  
+ coil**
**Danfoss**

Code	Type	Nominal capacity [kW]	Connection	
			suction	discharge
47-32061L1207	STF-0201G	2,8 - 11,4	1/2" (12 mm)	3/8" (10 mm)
47-32061L1208	STF-0301G	5,3 - 14,6	5/8" (16 mm)	1/2" (12 mm)
47-32061L1209	STF-0401G	8,3 - 29,2	3/4" (19 mm)	1/2" (12 mm)
47-32061L1155	STF-0413G	8,3 - 29,2	7/8" (22 mm)	5/8" (16 mm)
47-32061L1158	STF-0715G	21 - 53	1.1/8" (28 mm)	7/8" (22 mm)
47-32061L1217	STF-1513G	41 - 61	1.3/8" (35 mm)	7/8" (22mm)
47-32061L1225	STF-2017G	41 - 77	1.3/8" (35 mm)	1.1/8" (28 mm)

Code	Type	Rated voltage	Power [W]	Cable length [mm]
47-32061L2092	STF-01AB500A1	24 V a.c.	6,5	600
47-32061L2093	STF-01AJ506B1	220 - 240 V a.c.		600
47-32061L2095	STF-01AJ512D1	220 - 240 V a.c.	6,0	2 000



**4-way reversing valves  
+ coil**

Ranco



Code	Type	R407C [kW]	R410A [kW]	Connection		Style
				S.E.C.	discharge	
47-32V1-406060200	RV V1-402	1,41-4,57	1,76-5,98	3/8" (10 mm)	3/8" (10 mm)	B
47-32V2-408060100	RV V2-401	2,81-6,33	3,17-7,74	1/2" (12 mm)	3/8" (10 mm)	A
47-32V6-412080100	RV V6-401	3,87-18,99	4,57-23,92	3/4" (18 mm)	1/2" (12 mm)	A
47-32V6-414080100	RV V6-401	3,87-18,99	4,57-23,92	7/8" (22 mm)	1/2" (12 mm)	A
47-32V6-414120100	RV V6-401	3,87-18,99	4,57-23,92	7/8" (22 mm)	1/2" (12 mm)	A
47-32V10-414120100	RV V10-401	11,25-33,06	13,01-41,85	7/8" (22 mm)	3/4" (18 mm)	A
47-32V10-418140100	RV V10-401	11,25-37,63	13,01-47,48	1.1/8" (28 mm)	3/4" (18 mm)	A
47-32V12-4220T0200	RV V12-402	22,86-46,78	26,38-58,91	1.3/8" (35 mm)	1.1/8" (28 mm)	F



Code	Type	Voltage [V]	Frequency [Hz]	UL classification	Cable length
47-32LDK114801000	LDK-11	24	50/60	A	1,2 m
47-32LDK414801000	LDK-41	240	50/60	A	1,2 m
47-32LDK730000000	LDK-73	12 DC	50/60	A	1,2 m

**Differential pressure  
switches**

Alco

Max. differential pressure: -0,8 ... 12 bar, connection: 7/16" - 20 UNF, 1/4" SAE  
P. v. : factory setting

Code	Type	Time delay [s]		Cut out [bar]		Cut in fixed setting [bar]	Max. differential pre- ssure [bar]
		adjustable	P. v.	adjustable	P. v.		
47-32FD113	0710173	-	-	0,3 - 4,5	0,7	0,2 above cut-out	-0,8 up to 12
47-32FD113ZU	3465300	20 - 150	120				

**Pressure controls  
series PS3**

Alco

Code	Fixed setting		Reset	Pressure connection
	cut-out [bar]	cut-in [bar]		
<b>High pressure controls</b>				
47-32PS3-A6S	19	15	auto	7/16" - 20 UNF female thread with schrader opener
<b>High pressure limiter for high pressure protection</b>				
47-32PS3-W6S	25	20	auto	7/16" - 20 UNF female thread with schrader opener
47-32PS3-W6S-1	21	16		
47-32PS3-W6S-2	29	23		
47-32PS3-W6S-3	33,5	27,5		
47-32PS3-W6S-4	40	33		
<b>Pressure cut-out for high pressure protection - for direct compressor mounting</b>				
47-32PS3-B6S	27,3	5 bar below cut-out	manual	7/16" - 20 UNF female thread with schrader opener and snubber
47-32PS3-B6S-19	19,2			
47-32PS3-B6S-29	29,5			
47-32PS3-B6S-36	36			
<b>Low pressure limiter for high pressure protection</b>				
47-32PS3-W1S	2	3,5	auto	7/16" - 20 UNF
47-32PS3-W1S-0	-0,3	1,2		
47-32PS3-W1S-1	0,3	1,8		
47-32PS3-N15	cable assembly, cable length: 1,5 [m], 3 x 0,75 mm <sup>2</sup>			

**Pressure controls  
series PS1**

Alco

 b.p.n. : bar below setpoint  
 b.n.n. : bar above setpoint

 a./m. : auto./man.  
 m./m. : man./man.

Code	Adjustment range		Lowest setpoint [bar]	Factory setting [bar]	Pressure connection	Reset
	upper setpoint [bar]	differential [bar]				
<b>Low pressure</b>						
47-32PS1-A3A	-0,5 / 7	0,5 / 5	-0,9	3,5 / 4,5	7/16" - 20 UNF	auto.
47-32PS1-A3K	-0,5 / 7	0,5 / 5	-0,9	3,5 / 4,5	7/16" - 20 UNF capillary / nut	auto.
47-32PS1-R3A	-0,5 / 7	1 b.n.n.	-0,9	3,5	7/16" - 20 UNF	man.
47-32PS1-W3U	-0,5 / 7	0,5 / 5	-0,9	3,5 / 4,5	solder 6 mm	auto.
<b>High pressure</b>						
47-32PS1-A5A	6 / 31	2 / 15	3	16 / 20	7/16" - 20 UNF	auto.
47-32PS1-A5L	6 / 31	2 / 15	3	16 / 20	1/4" cap. / solder	auto.
47-32PS1-R5A	6 / 31	3 b.p.n.	-	20	7/16" - 20 UNF	man.
47-32PS1-W5A	6 / 31	2 / 15	3	16 / 20	7/16" - 20 UNF	auto.

**Pressure controls  
series PS2**

Alco

b.p.n. : bar below setpoint  
b.n.n. : bar above setpoint

a./m. : auto./man.  
m./m. : man./man.

Code	Adjustment range		Differential		Factory setting		Pressure connection	Reset
	low [bar]	high [bar]	low [bar]	high [bar]	low [bar]	high [bar]		
47-32PS2-A7A	-0,5 / 7	6 / 31	0,5 / 5	4 fix	3,5 / 4,5	20	7/16" - 20 UNF	auto.
47-32PS2-A7K	-0,5 / 7	6 / 31	0,5 / 5	4 fix	3,5 / 4,5	20	7/16" - 20 UNF capillary / nut	auto.
47-32PS2-A7U	-0,5 / 7	6 / 31	0,5 / 5	4 fix	3,5 / 4,5	20	solder 6 mm	auto.
47-32PS2-L7A	-0,5 / 7	6 / 31	0,5 / 5	4 b.p.n.	3,5 / 4,5	20	7/16" - 20 UNF	auto.
47-32PS2-R7A	-0,5 / 7	6 / 31	1 b.p.n.		3,5	20	7/16" - 20 UNF	auto.
47-32PS2-W7A	-0,5 / 7	6 / 31	0,5 / 5	4 fix	3,5 / 4,5	20	7/16" - 20 UNF	auto.
47-32PS2-W7U	-0,5 / 7	6 / 31	0,5 / 5	4 fix	3,5 / 4,5	20	solder 6 mm	auto.
47-32PS2-C7A	-0,5 / 7	6 / 31	0,5 / 5	4 b.p.n.	3,5 / 4,5	20	7/16" - 20 UNF	a. / m.
47-32PS2-G8A	6 / 31	6 / 31	4 b.p.n.	4 b.p.n.	20	21	7/16" - 20 UNF	m. / m.

**Cartridge pressure  
controls, ACB**

Danfoss

Code	Type	Range [bar]	Reset	Connection	Contact system
47-32061F7506	061F7506	18/13	auto.	1/4" F SAE	SPST-NC/W
47-32061F9522	061F9522	21/28	man.	1/4" F SAE	SPST-NC/W
47-32061F8494	061F8494	23/19	auto.	1/4" F SAE	SPST-NC/W
47-32061F7507	061F7507	26/20	auto.	6 mm ODF	SPST-NC/W
47-32061F7508	061F7508	26/20	auto.	1/4"	SPST-NC/W
47-32061F7509	061F7509	26/20	auto.	1/4" F SAE	SPST-NC/W
47-32061F9703	061F9703	26/20	man.	6 mm ODF	SPST-NC/W
47-32061F7510	061F7510	28/21	auto.	6 mm ODF	SPST-NC/W
47-32061F7514	061F7514	28/21	auto.	1/4" F SAE	SPST-NC/W
47-32061F8492	061F8492	31/24	auto.	1/4" F SAE	SPST-NC/W
47-32061F7515	061F7515	42/33	auto.	6 mm ODF	SPST-NC/W
47-32061F9575	061F9575	42/33	man.	1/4" F SAE	SPST-NC/W


47-32061F7520	061F7520	0,5/1,5	auto.	1/4" F SAE	SPST-NO/W
47-32061F7523	061F7523	0,7/1,7	auto.	1/4" F SAE	SPST-NO/W
47-32061F7524	061F7524	1,7/2,7	auto.	6 mm ODF	SPST-NO/W
47-32061F7526	061F7526	1,7/2,7	auto.	1/4" F SAE	SPST-NO/W
47-32061F8490	061F8490	8,5/11	auto.	1/4" F SAE	SPST-NO/W
47-32061F8491	061F8491	8,5/11	auto.	6 mm ODF	SPST-NO/W
47-32061F8333	061F8333	13/16	auto.	1/4" F SAE	SPST-NO/W
47-32061F8334	061F8334	13/16	auto.	6 mm ODF	SPST-NO/W

**KP pressure and temperature controls**
**Danfoss**

16 A, 400 V

Code	Type	Range [bar]	Spad [bar]	Reset	Connection	Contact system
47-32060-110366	KP1	-0,9/7,0	fix. 0,7	man.	1/4" / 6mm	SPDT
47-32060-110166	KP1	-0,2/7,5	0,7/4,0	auto.	1/4" / 6mm	SPDT
47-32060-112066	KP2	-0,2/5,0	0,4/1,5	auto.	1/4" / 6mm	SPDT
47-32060-117366	KP5	8/32	fix. 3	man.	1/4" / 6mm	SPDT
47-32060-117166	KP5	8/32	1,8/6,0	auto.	1/4" / 6 mm	SPDT
47-32060-115466	KP15	-0,2/7,5; 8/32	0,7/4,0; fix.4	adjustable	1/4" / 6mm	SPDT+LP/HP signal
47-32060-119066	KP7W	8/32	fix 3	man.	1/4" / 6 mm	SPDT
47-32060-124166	KP15	-0,2/7,5; 8/32	0,7/4,0; fix. 4	auto.	1/4" / 6mm	SPDT+LP signal
47-32060-124566	KP15	-0,9/7; 0, 8/32	fix. 0,7/fix. 4	man.	1/4" / 6mm	SPDT+LP signal
47-32060-126566	KP15	-0,2/7,5; 8/32	0,7/4,0; fix.4	auto.	1/4" / 6mm	SPDT+LP/HP signal
47-32060-519066		8/42	4/10	auto.	1/4" / 6mm	SPDT

Code	Description
47-32060-105566	flat bracket and other accessories for mounting of KP and MP pressure controls
47-32060-105666	angle bracket and other accessories for mounting of KP and MP pressure controls


**Differential pressure controls**
**Danfoss**

Code	Type	Time relay release time [s]	Operation range [bar]	Connection	Differential [bar]
47-32060B016666	MP54	45	-1 - +12	1/4" SAE	0,65
47-32060B016866	MP54	90	-1 - +12	1/4" SAE	0,65

**Fixed setting pressure switches**
**Ranco**

Code	Type	Application	Range [bar] cut out / cut in	Reset
<b>Flare</b>				
47-321226-00	HR10611A1R701	low pressure NO	0,5 / 1,5 bar	auto.
47-321226-01	HR10611A1R702	low pressure NO	0,7 bar / 1,7 bar	auto.
47-321226-02	HR10611A1R703	low pressure NO	1,7 bar / 2,7 bar	auto.
47-321226-03	HR10611A1R704	low pressure NO	2,5 bar / 4,2 bar	auto.
47-321226-04	HR10611B1R701	high pressure NC	18 bar / 13 bar	auto.
47-321226-05	HR10611B1R702	high pressure NC	26 bar / 20 bar	auto.
47-321226-06	HR10611B1R703	high pressure NC	28 bar / 21 bar	auto.
47-321226-07	HR10611B1R704	high pressure NC	42 bar / 33 bar	auto.
47-321226-08	HR00001B7R002	high pressure NC	44,5 bar / 33 bar	auto.
<b>Solder</b>				
47-321226-10	NSDHA11B00107	high pressure NC	44,5 bar / 33 bar	
47-321226-11	NSDHA11B39101	high pressure NC	18 bar / 13 bar	
47-321226-12	HR10601B1R702	high pressure NC	26 bar / 20 bar	

**Pressure  
controllers**

Ranco

Code	Type	Application	Range [bar] cut out / cut in	Reset
47-321225-00	O16-H6703-106	low pressure NO	-0,3 / 7	auto.
47-321225-01	O16-H6750-106	high pressure NC	7 / 30	auto.
47-321225-02	O17-H4701-106	dual	-0,3 / 7 and 7 / 30	auto.
47-321225-03	O16-H6751-101	high pressure NC	7 / 30	manual.
47-321225-04	O17-H4758-101	dual	-0,3 / 7 a 7 / 30	auto.
47-321225-05	angle bracket and other accessories for mounting pressure controls			

**Encapsulated pressure  
controls**

Johnson Controls

Code	Type	Setpoints [bar]		L [mm]	Reset	Pressure connection
		min.	max.			
47-321220-03	P100AA-50D, NO	0,28	2,21	765	auto	1/4" SAE
47-321220-04	P100CP-52D, NC	23,3	27,99	1910	auto	1/4" SAE
47-321220-05	P100AP-101D, NO	10	7	1910	auto	6 mm ODS
47-321220-06	P100AP-103D, NO	8,96	12,41	230	auto	1/4" SAE
47-321220-07	P100AP-200D, NO	13,44	18,96	1200	auto	1/4" SAE
47-321220-08	P100AP-320D, NO	2,69	3,72	2500	auto	1/4" SAE

**Pressure  
controls**

Johnson Controls

Code	Type	Application	Range [bar]	Spad [bar]	Reset	Pressure connection	Max. pressure [bar]
47-321200-00	P735AAA-9300	low pressure	-0,5/7	0,5/3	auto.	7/16"-20 UNF - 1/4"	22
47-321200-01	P735AAA-9350	high pressure	3/30	3/12	auto.	7/16"-20 UNF - 1/4"	33
47-321200-02	P735BEA-9350	high pressure	3/30		man.	7/16"-20 UNF - 1/4"	33
47-321200-03	P736LCA-9300	dual	-0,5/7; 3/30	0,5/3; fix. 3	auto.	7/16"-20 UNF - 1/4"	22/33
47-321200-04	P736MCA-9300	dual	-0,5/7; 3/30	0,5/3; man.	man.	7/16"-20 UNF - 1/4"	22/33
47-321200-05	P77AAW-9855	high pressure	3/42	4/12	auto.	6 mm ODM	
47-321200-06	P77AAA-9301	low pressure	-02/10	1/4,5	auto.	7/16"-20 UNF - 1/4"	



**Refrigerant distributor**

Danfoss

Code	Model	Dimensions		
		in	out	orifice
47-32069G000802	RD21-A05-B02	12 mm ODM	2 x 6 mm ODF	5 mm
47-32069G000803	RD21-A05-B03	12 mm ODM	3 x 6 mm ODF	5 mm
47-32069G201404	RD33-B06-B04	16 mm ODM	4 x 6 mm ODF	6 mm
47-32069G201406	RD33-B06-B06	16 mm ODM	6 x 6 mm ODF	6 mm

**Evaporator pressure regulators - KVP**

Danfoss

Code	Model	ODF connection	Rated capacity [kW] in $t_e = -10$ [°C] and $t_k = 25$ [°C]			
			R22	R134a	R404A / R407	R407C
47-32034L0028	KVP12	12 mm	4,0	2,8	3,6	3,7
47-32034L0029	KVP15	5/8" (16 mm)	4,0	2,8	3,6	3,7
47-32034L0025	KVP22	7/8" (22 mm)	4,0	2,8	3,6	3,7
47-32034L0031	KVP28	28 mm	8,6	6,1	7,7	7,9
47-32034L0032	KVP35	1.3/8" (35 mm)	8,6	6,1	7,7	7,9

**Differential pressure regulators**

Danfoss

Code	Model	Direction	Connection [mm]
47-32020-1136	NRD 12	straight	solder 12 mm ODF

**Condensing pressure regulators - KVR**

Danfoss

Code	Model	ODF connection	Rated capacity [kW] in $t_e = -10$ [°C] and $t_k = 30$ [°C]			
			R22	R134a	R404A/ R507	R407C
47-32034L0096	KVR 12	12	50,4	47,3	36,6	54,4
47-32034L0097	KVR 15	16	50,4	47,3	36,6	54,4
47-32034L0094	KVR 22	22	50,4	47,3	36,6	54,4
47-32034L0099	KVR 28	28	129	121	93,7	139,3
47-32034L0100	KVR 35	35	129	121	93,7	139,3

**Crankcase pressure regulators - KVL**

Danfoss

Code	Model	Connection [mm]	Rated capacity [kW] in $t_e = -10$ [°C] and $t_k = 25$ [°C]			
			R22	R134a	R404A/ R507	R407C
47-32034L0048	KVL12	12	7,1	5,3	6,3	6,4
47-32034L0049	KVL15	16	7,1	5,3	6,3	6,5
47-32034L0045	KVL 22	22	7,1	5,3	6,3	6,4
47-32034L0051	KVL 28	28	17,8	13,2	15,9	16,4
47-32034L0052	KVL 35	35	17,8	13,2	15,9	16,4

**Capacity regulators - KVC, CPCE**

Danfoss

Code	Model	Connection [mm]	Rated capacity [kW] in $t_e = -10$ °C and $t_k = 25$ °C			
			R22	R134a	R404A/ R507	R407C
47-32034L0146	KVC 12	12	7,6	4,8	6,9	8,4
47-32034L0147	KVC 15	16	14,9	9,4	13,6	16,4
47-32034L0144	KVC 22	22	19,1	12	17,4	21
47-32034N0082	CPCE 12	12	17,4	7,9	16,4	19
47-32034N0083	CPCE 15	16	25,6	11,6	24,2	27,9
47-32034N0084	CPCE 22	22	34	15,2	32	37,1

**Capacity regulators - KVC, CPCE**

Danfoss

Code	Description
47-32069G4003	LG liquid distributor for capacity regulator CPCE, connection: inlet hot gas: 16 mm, inlet liquid: 28 mm, outlet size: 28 mm

**Receiver pressure regulators - KVD**

Danfoss

Code	Model	Connection	Reg. range [bar]	Kv [m <sup>3</sup> /h]	Max. test pressure [bar]	Temperature range [°C]	
						min	max
47-32034L0176	KVD 12	12 mm ODF	3-20	1,75	31	-45	+105
47-32034L0177	KVD 15	5/8" (16 mm) ODF	3-20	1,75	31	-45	+105

**Evaporating pressure regulators**

Castel

Code	Model	Connection [mm]	Reg. range [bar]	Kv [m³/h]	Max. working pressure [bar]	Temperature range [°C]	
						min	max
47-3231-3330-M12S	3330/M12S	12 mm	0 - 5,5	2,7	18	-40	+105
47-3231-3330-5S	3330/5S	5/8" (16 mm)					
47-3231-3330-7S	3330/7S	7/8" (22 mm)					

**Condensing pressure regulators**

Castel

Code	Model	Connection	Reg. range [bar]	Kv [m³/h]	Max. working pressure [bar]	Temperature range [°C]	
						min	max
47-3231-3340-M12S	3340/M12S	12 mm	5 - 17,5	2,7	28	-40	+105
47-3231-3340-5S	3340/5S	5/8" [16 mm]					
47-3231-3340-7S	3340/7S	7/8" [22 mm]					

**Crankcase pressure regulators**

Castel

Code	Model	Connection	Reg. range [bar]	Kv [m³/h]	Max. working pressure [bar]	Temperature range [°C]	
						min	max
47-3231-3320-M12S	3320/M12S	12 mm	0,2 - 6	3,3	18	-40	110
47-3231-3320-5S	3320/5S	5/8" (16 mm)					
47-3231-3320-7S	3320/7S	7/8" (22 mm)					

**Capacity regulators**

Castel

Code	Model	Connection	Reg. range [bar]	Kv [m³/h]	Max. working pressure [bar]	Temperature range [°C]	
						min	max
47-3231-3310-M12S	3310/M12S	12 mm	0,2 - 6	0,7	28	-40	+110
47-3231-3310-5S	3310/5S	5/8" (16 mm)		1,26			
47-3231-3310-7S	3310/7S	7/8" (22 mm)		1,84			

## Receiver pressure regulators

Castel

Code	Model	Connection	Reg. range [bar]	Kv [m <sup>3</sup> /h]	Max. working pressure [bar]	Temperature range [°C]	
						min	max
47-3231-3350-M12S	3350/M12S	12 mm	5 - 17,5	1,8	28	-40	110
47-3231-3350-5S	3350/5S	5/8" (16 mm)					

## Electronic oil level management system

Alco

Code	Description	Max. working pressure [bar]	Time delay [s]
47-32OM0-CUA	adapter flange	35	20

Code	Alco code	Connection		Weight [kg]
		inlet	outlet	
47-32OM3-CBB	805032	1 1/8"	18 UNF	0,86
47-32OM3-CCA	805033	3/4"	14 NPTF	0,85
47-32OM3-CCC	805035	oil system with flangeadapter 3-hole		0,92
47-32OM3-CCD	805031	1 3/4"	12 UNF	0,93
47-32OM3-CCE	805029	1 1/4"	12 UNF	-
47-32OM3-CUA	805030	oil system with flangeadapter 3-/4-hole		0,91

Code	Alco code	Description
<b>Adapter flanges</b>		
47-32OM0-CUA	805037	flange adapter, 3- / 4-hole
47-32OM0-CBB	805038	screw adapter, 1 1/8" - 18 UNEF
47-32OM0-CCA	805039	screw adapter, 3/4" - 14NPTF
47-32OM0-CCE	805043	rotalock adapter, 1 1/4" - 12UNF
<b>Solenoid coils</b>		
47-32ASC-230AC	801064	solenoid coil Alco ASC supply voltage 230 V, AC, 8 W, 50/60 Hz, 801064
47-32ASC-24AC	801062	solenoid coil Alco ASC supply voltage 24 V, AC, 8 W, 50/60 Hz, 801062
47-32OM-230V-3	805161	cable assembly power supply and solenoid Alco 230V, 3,0 m
<b>Cables alarm relay</b>		
47-32OM3-N30	805141	cable with connector ALCO OM3-N30, cable length 3m
47-32OM3-N60	805142	cable with connector ALCO OM3-N60, cable length 6m
47-32OM3-P30	805151	cable with connector ALCO OM3-P30, cable length 3m
47-32OM3-P60	805152	cable with connector ALCO OM3-P60, cable length 6m
<b>Transformers</b>		
47-32ECT-323	804424	transformer ECT-323 / 804424, 230VAC / 24V, 25VA, DIN rail
47-32ECT-623	804421	transformer ECT-623 / 804421, 230V / 24V, 60VA, DIN rail
<b>Accessories</b>		
47-32ODP-33A	800366	differential oil check valve 350 kPa, inlet 15/16 - 18 UNF female, outlet 5/8" - 18 UNF male, PS 35 bar, OM3 only

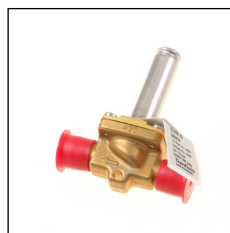


**Solenoid valves,  
normally closed (NC)**

Danfoss

Max. working pressure 32 bar.

Code	Type	Connection
47-32032F1201	EVR 2 NC	solder 1/4" (6 mm) ODF
47-32032F1202	EVR 2 NC	solder 1/4" (6 mm) ODF
47-32032F1207	EVR 3 NC	solder 1/4" (6 mm) ODF
47-32032F1208	EVR 3 NC	solder 3/8" (10 mm) ODF
47-32032F1213	EVR 6 NC	solder 3/8" (10 mm) ODF
47-32032F1236	EVR 6 NC	solder 1/2" (12 mm) ODF
47-32032F1218	EVR 10 NC	solder 1/2" (12 mm) ODF
47-32032F1214	EVR 10 NC	solder 5/8" (16 mm) ODF
47-32032F1228	EVR 15 NC	solder 5/8" (16 mm) ODF
47-32032F1225	EVR 15 NC	solder 7/8" (22 mm) ODF
47-32032F1240	EVR 20 NC	solder 7/8" (22 mm) ODF
47-32032F1245	EVR 20 NC	solder 1.1/8" (28 mm) ODF
47-32032F3267	EVR 22 NC	solder 1.3/8" (35 mm) ODF
47-32032F2206	EVR 25 NC	solder 28 mm ODF
47-32032F8107	EVR 3 NC	flare 1/4" (6 mm)
47-32032F8116	EVR 3 NC	flare 3/8" (10 mm)
47-32032F8072	EVR 6 NC	flare 3/8" (10 mm)
47-32032F8079	EVR 6 NC	flare 1/2" (12 mm)
47-32032F8095	EVR 10 NC	flare 1/2" (12 mm)
47-32032F8101	EVR 15 NC	flare 5/8" (16 mm)



**Solenoid valves,  
normally open (NO)**

Danfoss

Max. working pressure 32 bar.

Code	Type	Connection
47-32032F1295	EVR 6 NO	solder 3/8" (10 mm) ODF
47-32032F1296	EVR 10 NO	solder 1/2" (12 mm) ODF
47-32032F3270	EVR 15 NO	solder 7/8" (22 mm) ODF
47-32032F1279	EVR 20 NO	solder 1.1/8" (28 mm) ODF
47-32032F3268	EVR 22 NO	solder 1.3/8" (35 mm) ODF
Code	Type	Connection
47-32032U7125	EV220B	servo-operated 2/2-way solenoid valve - flare G1

**Coils for solenoid  
valve**

Danfoss

Code	Type
47-32018F6282	coil for solenoid valve Danfoss BF230CS, 018F8247-32same as 018F6282, IP 67, 220 - 230 V, 50/60 Hz, power 10 W, 3 - coil connection: cable 1 m
47-32018F6701	coil for solenoid valve Danfoss BF230CS, 018F6701, IP 67, 220 - 230 V, 50/60 Hz, power 10 W, coil connection: connection box
47-32018F6707	coil for solenoid valve Danfoss 018F6707, IP 67, 24 V, 50 Hz, power 10 W, coil connection: connection box
47-32018F6856	coil for solenoid valve Danfoss 018F6856, IP 67, 12 V, power 20W, coil connection: connection box
47-32018F6857	coil for solenoid valve Danfoss BG024DS, 018F6857, 24V(ss), power 20W, IP67, coil connection: connection box
47-32018F6781	coil for solenoid valve Danfoss BE230DS, IP 67, 230V DC, power 18W, coil connection: connection box
47-32018F6711	coil for solenoid valve Danfoss BE115AS, IP 67, 115V / 50 Hz, power 10W, coil connection: connection box
47-32018F6801	coil for solenoid valve Danfoss BG230AS, IP 67, 220 - 230V / 50 Hz, power 12W, coil connection: connection box
47-32018F9999	permanent magnet for solenoid valve Danfoss, d = 18 mm

**Solenoid valves with coil -  
normally closed (NC)**

Honeywell

Code	Type	Connection	Kv [m³/h]
<b>flare</b>			
47-3230-062	MD 062	7/16 x 7/16 UNF	0,17
47-3230-103	MD 103	3/8 x 3/8 UNF	0,23
47-3230-124	MS 124	3/4 x 3/4 UNF	1,60
47-3230-165	MS 165	7/8 x 7/8 UNF	2,00
<b>solder</b>			
47-3230-062M	MD 062 MMS	6 x 6 mm ODF	0,17
47-3230-103M	MD 103 MMS	10 x 10 mm ODF	0,23
47-3230-124M	MS 124 MMS	12 x 12 mm ODF	1,60
47-3230-165S	MS 165 S	16 x 16 mm ODF	2,00
47-3230-227S	MS 227S	22 x 22 mm ODF	4,00

**Coils for solenoid valve**

Honeywell

47-32MC-00001	MC-00001	coil for solenoid valve MC 062 Honeywell with connector, 230V AC, 50/60 Hz, 8 W
47-32MC-00003	MC-00003	coil for solenoid valve MC 062 Honeywell, 24V, 50/60 Hz, 8W
47-32MC-00005	MC-00005	coil for solenoid valve MC 102-227 Honeywell with connector, 230V AC, 50/60 Hz, 13 W
47-32MC-00013	MC-00013	coil for solenoid valve MC 102-227 Honeywell with connector, 24 V DC, 20 W

**Solenoid valves flare connection normally closed (NC)**

Castel

Without coil, connector.



Code	Type	Connection SAE	Kv [m³/h]
47-3230-1020-2S	1020/2S NC	1/4"	0,18
47-3230-1020-3S	1020/3S NC	3/8"	0,23
47-3230-1064-3S	1064/3S NC	3/8"	0,80
47-3230-1064-4S	1064/4S NC	1/2"	0,80
47-3230-1070-4S	1070/4S NC	1/2"	2,20
47-3230-1070-5S	1070/5S NC	5/8"	2,61
47-3230-1132-4S	1132/4S NC	5/8"	2,61

**Solenoid valves flare connection normally closed (NC)**

Castel

With coil, without connector.



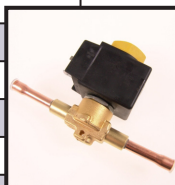
Code	Type	Connection SAE	Kv [m³/h]
47-3230-1020-2A6	1020/2A6 NC	1/4"	0,18
47-3230-1020-3A6	1020/3A6 NC	3/8"	0,23
47-3230-1064-3A6	1064/3A6 NC	3/8"	0,8
47-3230-1064-4A6	1064/4A6 NC	1/2"	0,8
47-3230-1070-4A6	1070/4A6 NC	1/2"	2,2
47-3230-1050-5A6	1050/5A6 NC	5/8"	3,8
47-3230-1070-5A6	1070/5A6 NC	5/8"	2,61
47-3230-1050-6A6	1050/6A6 NC	3/4"	4,8

**Solenoid valves  
solder connection**

Castel

With coil, without connector.

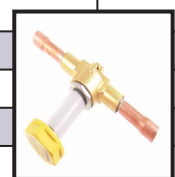
Code	Type	Connection ODS	Kv [m <sup>3</sup> /h]
47-3230-1028-2A6	1028-2A6 NC	1/4"	0,15
47-3230-1028-2A6E	1028-2A6E NC	1/4"	0,23
47-3230-1028-M10A6	1028-M10A6 NC	10 mm	0,23
47-3230-1068-M10A6	1068-M10A6 NC	10 mm	0,80
47-3230-1068-M12A6	1068-M12A6 NC	12 mm	0,80
47-3230-1078-5A6	1078-5A6 NC	5/8" (16 mm)	2,61
47-3230-1078-9A6	1078-9A6 NC	1 1/8"	10,00
47-3230-1078-M12A6	1078-M12A6 NC	12 mm	2,20
47-3230-1079-11A6	1079-11A6 NC	1 3/8" (35 mm)	10,00
47-3230-1079-7A6	1079-7A6 NC	7/8" (22 mm)	2,61
47-3230-1098-5A6	1098-5A6 NC	5/8" (16 mm)	3,80
47-3230-1098-6A6	1098-6A6 NC	3/4"	4,80
47-3230-1098-7A6	1098-7A6 NC	7/8" (22 mm)	5,70
47-3230-1099-9A6	1099-9A6 NC	1 1/8"	5,70


**Solenoid valves  
solder connection**

Castel

Without coil and connector.



Code	Type	Connection ODS	Kv [m <sup>3</sup> /h]
47-3230-1028-2S	1028/2S NC	1/4"	0,15
47-3230-1028-2SE	1028/2SE NC	1/4"	0,23
47-3230-1028-M10S	1028/M10S NC	10 mm	0,23
47-3230-1068-M10S	1068/M10S NC	10 mm	0,80
47-3230-1068-M12S	1068/M12S NC	12 mm	0,80
47-3230-1078-4S	1078/4S NC	1/2"	2,20
47-3230-1078-11S	1078/11S NC	1.3/8" (35 mm)	16,00
47-3230-1078-5S	1078/5S NC	5/8" (16 mm)	2,61
47-3230-1078-9S	1078/9S NC	1.1/8"	10,00
47-3230-1078-M12S	1078/M12S NC	12 mm	2,20
47-3230-1079-11S	1079/11S NC	1 3/8" (35 mm)	10,00
47-3230-1079-7S	1079/7S NC	7/8" (22 mm)	2,61
47-3230-1079-M42S	1079/M42S NC	42 mm	16,00
47-3230-1098-5S	1098-5S NC	5/8" (16 mm)	3,80
47-3230-1098-6S	1098/6S NC	3/4"	4,80
47-3230-1098-7S	1098/7S NC	7/8" (22 mm)	5,70
47-3230-1158-5S	1158/5S NO	5/8" (16 mm)	3,80
47-3230-1158-7S	1158/7S NO	7/8" (22 mm)	5,70
47-3230-1168-M10S	1168-M10S	10 mm	0,80
47-3230-1178-M12S	1178-M12S NO	12 mm	2,20
47-3230-1178-11S	1178-11S	1 3/8" (35 mm)	16,00
47-3230-1178-M5S	1178-M5S		





**Accessories for solenoid valves**

Castel

Code	Type	Description	
47-3230-99-291	HM2 9100/RA6	coil for solenoid valve 220/230V/50 Hz	
47-3230-99-292	HM2 9105/RA4	coil for solenoid valve 110V/60Hz	
47-3230-99-293	HM2 9100/RA2	coil for solenoid valve 24V AC	
47-3230-99-296	HM2 9100/RA4	coil for solenoid valve 110V/50/60Hz	
47-3230-9120-RD1	HM3, 9120/RD1	coil for solenoid valve 12V/ D.C.	
47-3230-9120-RD2	HM3 9120/RD2	coil for solenoid valve 24V/ D.C.	
47-3230-9120-RD6	HM3 9120/RD6	coil for solenoid valve 220/230V/50 Hz	
47-3230-9220-RA6	HM6 9220/RA6	coil for solenoid valve 220/230V A.C. 50/60 Hz	
47-3230-99-011	PG 11	connector without cable	
47-3230-99-012	9900/X84	connector with cable 1,5 m	
47-3230-99-294	990/X91	permanent magnet	

**Solenoid valves solder connection normally closed (NC)**

Alco

Without coil and connector.

Code	Alco code	Connection ODF	Kv [m <sup>3</sup> /h]
47-32110RB2T2	801217	6 mm	0,2
47-32110RB2T3	801209	3/8" (10 mm)	0,2
47-32200RB3T3	801239	3/8" (10 mm)	0,4
47-32200RB4T3	801176	10 mm	0,9
47-32200RB4T4	801178	12 mm	0,9
47-32200RB4T4-12	801179	1/2"	0,9
47-32200RB6T4	801182	12 mm	1,6
47-32200RB6T4-12	801183	1/2"	1,6
47-32200RB6T5	801186	5/8" (16 mm)	1,6
47-32240RA8T5	801160	5/8"	2,3
47-32240RA9T7	801162	7/8" (22 mm)	4,8
47-32240RA12T7	801163	7/8" (22 mm)	5,4

**Solenoid valves solder connection normally open (NO)**

Alco

Without coil and connector.

Code	Alco code	Connection ODF	Kv [m <sup>3</sup> /h]
47-32540RA8T5	046265	5/8"	2,3
47-32540RA9T5	046266	5/8"	4,8
47-32540RA9T7	046268	7/8" (22 mm)	4,8

### Solenoid valves solder connection normally closed (NC)

Alco

With coil and connector.

Code	Alco code	Connection ODF	Kv [m <sup>3</sup> /h]
47-32200RB6T4-1K		1/2"	1,6
47-32240RA9T7-K		7/8" (22 mm)	4,8

### Accessories for solenoid valves

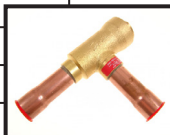
Alco

Code	Alco code	Voltage	Consumption
<b>Coils</b>			
47-32ASC-120AC	801063	120V, AC, 50 Hz	8W
47-32ASC-230AC	801064	230V, AC, 50 Hz	8W
47-32ASC-12DC	801054	12V, DC, 50 Hz	15W
47-32ASC-24AC	801974	24V, DC, 50 Hz	15W
<b>Connectors</b>			
47-32ASC-N15	804570	connector with cable for ASC coils Alco, l = 1,5m, 230V	
47-32DS2-N15	804620	connector with cable for ASC coils Alco, l = 1,5m, 24V	
47-32GDM-2009-PG9	801012	connector without cable for ASC coils Alco, PG9, 230V	

### Check valves

Danfoss

Code	Type	Connection	Kv [m <sup>3</sup> /h]
<b>Straight - way</b>			
47-32020-1014	NRV 6s	6 mm	0,56
47-32020-1015	NRV 10s	10 mm	1,43
47-32020-1016	NRV 12s	12 mm	2,05
47-32020-1018	NRV 16s	5/8 (16 mm)	3,60
47-32020-1017	NRV 19s	18 mm	5,50
47-32020-1037	NRVH 12s	12 mm	2,05
47-32020-1038	NRVH 16s	5/8" (16 mm)	3,60
47-32020-1008	NRVH 19s	18 mm	5,50
<b>Angle - way</b>			
47-32020-1020	NRV 22s	7/8" (22 mm)	8,50
47-32020-1025	NRV 28s	28 mm	19,00
47-32020-1026	NRV 35s	1 3/8" (35 mm)	29,00
47-32020-1032	NRVH 22s	7/8" (22 mm)	8,50
47-32020-1033	NRVH 28s	28 mm	19,00
47-32020-1034	NRVH 35s	1 3/8" (35 mm)	29,00
47-32020-1035	NRVH 35s	42 mm	29,00



**Check valves**

Castel

Code	Model	Connection ODS	Kv [m³/h]
<b>Straight - way</b>			
47-3230-3132-2	3132-2	1/4"	0,5
47-3230-3132-M10	3132/M10	10 mm	1,5
47-3230-3132-M12	3132/M12	12 mm	1,8
47-3230-3132-5	3132/5	5/8" (16 mm)	3,3
47-3230-3132-M18	3132/M18	18 mm	5
47-3230-3132-7	3132/7	7/8" (22 mm)	5
47-3230-3142-7	3142/7	7/8" (22 mm)	6,6
47-3230-3142-9	3142/9	1.1/8"	8,8
47-3230-3142-M28	3142/M28	28 mm	8,8
47-3230-3142-11	3142/11	1.3/8" (35 mm)	15,2
47-3230-3142-13	3142/13	1.5/8"	25
47-3230-3122-13	3122/13	1.5/8"	25
47-3230-3142-M42	3142/M42	42 mm	25
47-3230-3142-17	3142/17	2.1/8" (54 mm)	40
47-3230-3142-21	3142-21	2.5/8"	40
47-3230-3122-17	3122-17	2.1/8" (54 mm)	40
47-3230-3142-25	3142-25	3 1/8"	40
<b>Angle - way</b>			
47-3230-3182-7	3182/7	7/8" (22 mm)	8,5
47-3230-3182-M28	3182/M28	28 mm	9,5
47-3230-3182-11	3182/11	1.3/8" (35 mm)	19
47-3230-3182-M42	3182/M42	42 mm	37
47-3230-3182-17	3182/17	2.1/8" (54 mm)	45,4

**Ball valves**

Castel

Code	Model	Connection ODS	Kv [m³/h]
<b>Without access fitting</b>			
47-3230-6590-M6	6590/M6	6 mm	0,8
47-3230-6590-2	6590/2	1/4"	0,8
47-3230-6590-M10	6590/M10	10 mm	3,0
47-3230-6590-M12	6590/M12	12 mm	5,0
47-3230-6590-4	6590/4	1/2"	5,0
47-3230-6590-5	6590/5	5/8" (16 mm)	17,0
47-3230-6590-6	6590/6	3/4"	17,0
47-3230-6590-M18	6590/M18	18 mm	17,0
47-3230-6590-7	6590/7	7/8" (22 mm)	29,0
47-3230-6590-M28	6590/M28	28 mm	51,0
47-3230-6590-11	6590/11	1.3/8" (35 mm)	86,0
47-3230-6590-M42	6590/M42	42 mm	117,0
47-3230-6590-17	6590/17	2.1/8" (54 mm)	214,0
47-3230-6590-M64	6590/M64	64 mm	433,0



Code	Model	Connection ODS	Kv [m³/h]
<b>With access fitting</b>			
47-3230-6590-M10A	6590/M10A	10 mm	3
47-3230-6590-M12A	6590/M12A	12 mm	5
47-3230-6590-M15A	6590/M15A	15 mm	17
47-3230-6590-5A	6590/5A	5/8" (16 mm)	17
47-3230-6590-M18A	6590/M18A	18 mm	17
47-3230-6590-7A	6590/7A	7/8" (22 mm)	29
47-3230-6590-M28A	6590/M28A	28 mm	51
47-3230-6590-11A	6590/11A	1.3/8" (35 mm)	86
47-3230-6590-M42A	6590/M42A	42 mm	117
47-3230-6590-17A	6590/17A	2.1/8" (54 mm)	214
47-3230-6590-M64A	6590/M64A	64 mm	433
47-3230-6591-24A	6591/24A	3"	433
47-3230-6591-28A	6591/28A	3.1/2" (89 mm)	675
47-3230-6591-34A	6591/34A	4.1/4" (108 mm)	580

## Ball valves

Alco

Max. allowable pressure: 45 bar  
 Medium temperature: - 40°C to 120°C (short term 150°C)  
 Medium compatibility: CFC, HCFC a HFC

Code	Alco code	Connection ODF [mm]	Kv [m³/h]
47-32BVE-M06	806731	6 mm	1,3
47-32BVE-M10	806733	10 mm	3,2
47-32BVE-012	806734	1/2"	7,2
47-32BVE-M12	806735	12 mm	7,2
47-32BVE-M16	806736	5/8" (16 mm)	11,7
47-32BVE-034	806737	3/4"	18,2
47-32BVE-M22	806738	7/8" (22 mm)	29,6
47-32BVE-118	806739	1 1/8"	41,0
47-32BVE-M28	806740	28 mm	41,0
47-32BVE-M35	806741	1 3/8" (35 mm)	68,7
47-32BVE-M42	806743	42 mm	92,0
47-32BVE-M54	806744	2 1/8" (54 mm)	142,0
47-32BVE-M64	806745	2 5/8" (64 mm)	152,0

**Ball valves**

Danfoss

Code	Model	Connection ODF	Kv [m³/h]	Weight [kg]
47-32009G7030	GBC 6s	6 mm	1,96	0,215
47-32009G7031	GBC 10s	10 mm	5,68	0,210
47-32009G7032	GBC 12s	12 mm	10,58	0,225
47-32009G7023	GBC 16s	16 mm	14,11	0,245
47-32009G7035	GBC 18s	18 mm	20,42	0,370
47-32009G7025	GBC 22s	7/8" / 22 mm	28,17	0,405
47-32009G7033	GBC 28s	28 mm	51,95	0,865
47-32009G7027	GBC 35s	1 3/8" / 35 mm	80,89	1,390
47-32009G7034	GBC 42s	42 mm	121,07	2,210
47-32009G7029	GBC 54s	2 1/8" / 54 mm	224,96	4,210
47-32009G7036	GBC 67s RP	2 5/8" / 67 mm	245,78	4,280

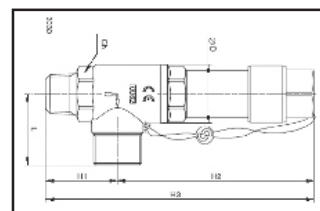
**Safety valves**

Castel

Set pressure range: 8 / 50 bar  
 Temperature range: -50 to +150°C

Code	Type	Connection		Set pressure [bar]
		suction	discharge	
47-3230-3030-44C100	3030/44C100	1/2" NTP	3/4" G	10
47-3230-3030-44C120	3030/44C120	1/2" NTP	3/4" G	12
47-3230-3030-44C150	3030/44C150	1/2" NTP	3/4" G	15
47-3230-3030-44C160	3030/44C160	1/2" NTP	3/4" G	16
47-3230-3030-44C200	3030/44C200	1/2" NTP	3/4" G	20
47-3230-3030-44C220	3030/44C220	1/2" NTP	3/4" G	22
47-3230-3030-44C240	3030/44C240	1/2" NTP	3/4" G	24
47-3230-3030-44C250	3030/44C250	1/2" NTP	3/4" G	25
47-3230-3030-44C270	3030/44C270	1/2" NTP	3/4" G	27
47-3230-3030-44C280	3030/44C280	1/2" NTP	3/4" G	28
47-3230-3030-44C290	3030/44C290	1/2" NTP	3/4" G	29
47-3230-3030-44C310	3030/44C310	1/2" NTP	3/4" G	31
47-3230-3030-44C430	3030/44C430	1/2" NTP	3/4" G	43
47-3230-3030-44C450	3030/44C450	1/2" NTP	3/4" G	45
47-3230-3030-44C300	3030/66C300	3/4" NPT	3/4" G	30
47-3230-3030-66C400	3030/66C400	3/4" NTP	3/4" G	40
47-3230-3030-88C100	3030/88C100	1" NTP	1 1/4" G	10
47-3230-3030-88C160	3030/88C160	1" NTP	1 1/4" G	16
47-3230-3030-88C200	3030/88C200	1" NTP	1 1/4" G	20
47-3230-3030-88C220	3030/88C220	1" NTP	1 1/4" G	22
47-3230-3030-88C280	3030/88C280	1" NTP	1 1/4" G	28

Type	Dimensions						Weight
	D	L	Ch	H1	H2	H3	
3030/44C	38	38	28	44	115	159	780
3030/66C	38	38	28	44	115	159	780
3030/88C	50	56	40	58	158	216	1960



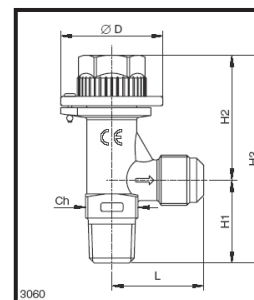
## Safety valves

Castel

Set pressure range: 9 / 50 bar  
Temperature range: -50 to +150°C

Code	Type	Connection		Set pressure [bar]
		suction	discharge	
47-3230-3060-23C250	3060/23C250	1/4" NPT	3/8" SAE	25
47-3230-3060-23C275	3060/26C275	1/4" NPT	3/8" SAE	27,5
47-3230-3060-23C290	3060/23C290	1/4" NPT	3/8" SAE	29
47-3230-3060-33C280	3060/33C280	3/8" NPT	3/8" SAE	28
47-3230-3060-34C140	3060/34C140	3/8" NPT	1/2" SAE	14
47-3230-3060-34C190	3060/34C190	3/8" NPT	1/2" SAE	19
47-3230-3060-34C280	3060/34C280	3/8" NPT	1/2" SAE	28
47-3230-3060-34C290	3060/34C290	3/8" NPT	1/2" SAE	29
47-3230-3060-45C150	3060-45C150	1/2" NPT	5/8" SAE	15
47-3230-3060-45C160	3060-45C160	1/2" NPT	5/8" SAE	16
47-3230-3060-45C200	3060/45C200	1/2" NPT	5/8" SAE	20
47-3230-3060-45C210	3060/45C210	1/2" NPT	5/8" SAE	21
47-3230-3060-45C230	3060/45C230	1/2" NPT	5/8" SAE	23
47-3230-3060-45C250	3060/45C250	1/2" NPT	5/8" SAE	25
47-3230-3060-45C280	3060/45C280	1/2" NPT	5/8" SAE	28
47-3230-3060-45C300	3060/45C300	1/2" NPT	5/8" SAE	30
47-3230-3060-45C310	3060/45C310	1/2" NPT	5/8" SAE	31
47-3230-3060-45C420	3060/45C420	1/2" NPT	5/8" SAE	42
47-3230-3060-45C430	3060/45C430	1/2" NPT	5/8" SAE	43
47-3230-3060-46C160	3060/46C160	3/8" NPT	3/4" G	16
47-3230-3060-46C170	3060/46C170	1/2" NPT	3/4" G	17
47-3230-3060-46C190	3060/46C190	1/2" NPT	3/4" G	19
47-3230-3060-46C270	3060/46C270	1/2" NPT	3/4" G	27
47-3230-3060-46C280	3060/46C280	1/2" NPT	3/4" G	28
47-3230-3060-46C310	3060/46C310	1/2" NPT	3/4" G	31
47-3230-3060-46C400	3060/46C400	1/2" NPT	3/4" G	40

Type	Dimensions [mm]						Weight [g]
	D	L	Ch	H1	H2	H3	
3060/23C	21,5	35	20	33,5	46,5	80	180
3060/34C	21,5	35	20	33,5	46,5	80	195
3060/45C	21,5	39	23	37	52,5	89	240
3060/33C	30	40	27	37	59,5	96,5	360
3060/46C	30	40	27	40	59,5	96,5	380



**Ball shut-off valves**

Castel

Code	Model	Connection SAE	Kv [m <sup>3</sup> /h]
47-3230-3033-44	3033/44	1/2" NPT	10,0
47-3230-3033-88	3033/88	1" NPT	20,0
47-3230-3063-22	3063/22	1/4" NPT	2,5
47-3230-3063-44	3063/44	1/2" NPT	5,0

**Changeover valves**

Castel

Code	Type	Designed for valve	Kv [m <sup>3</sup> /h]	Dimensions [mm]			
				A	B	H1	H2
47-3230-3032-33	3032/33	3060/33C	2,5	3/8" NPT	3/8" NPT	117	45
		3060/34C					
		3060/36C					
47-3230-3032-44	3032/44	3060/45C	3,3	1/2" NPT	1/2" NPT	117	45
		3060/46C					
47-3230-3032-64	3032/64	3030/44C	9	3/4" NPT	1/2" NPT	95	52
47-3230-3032-KRYT	plastic cover for safety valve Castel 3032/44, black						

**Unions for safety valves**

Castel

Code	Type	Connection	
		NPT	ODS [mm]
47-3230-3035-2	3035/2	1/4"	12
47-3230-3035-3	3035/3	3/8"	18
47-3230-3035-4	3035/4	1/2"	22
47-3230-3035-6	3035/6	3/4"	28
47-3230-3035-8	3035/8	1"	35

## Diaphragm valves

Universal

Code	Connection		
	SAE	ODS	
		Ø [in.]	Ø [mm]
<b>flare</b>			
47-323003-12	1/4"	-	-
47-323003-14	1/2"	-	-
47-323003-38	3/8"	-	-
47-323003-58	5/8"	-	-
<b>solder</b>			
47-323013-12	-	1/2"	12
47-323013-14	-	1/4"	6
47-323013-38	-	3/8"	10
47-323013-58	-	5/8"	16

## Diaphragm valves

Castel

Code	Type	Connection			Kv [m³/h]	PS [bar]	TS [°C]	Weight [kg]
		SAE	ODS					
			Ø [in.]	Ø [mm]				
<b>flare</b>								
47-3230-6210-2	6210/2	1/4"	-	-	0,28	28	-35 to 90 °C	0,200
47-3230-6210-3	6210/3	3/8"	-	-	1,00			0,325
47-3230-6210-4	6210/4	1/2"	-	-	1,30			0,335
47-3230-6210-5	6210/5	5/8"	-	-	1,80			0,340
47-3230-6210-6	6210/6	3/4"	-	-	3,65			0,655
<b>solder</b>								
47-3230-6220-2	6220/2	-	1/4"	6	0,28	28	-35 to 90 °C	0,195
47-3230-6220-3	6220/3	-	3/8"	10	1,00			0,300
47-3230-6220-4	6220/4	-	1/2"	12	1,30			0,305
47-3230-6220-5	6220/5	-	5/8"	16	1,80			0,305
47-3230-6220-6	6220/6	-	3/4"	18	3,65			0,580
47-3230-6220-7	6220/7	-	7/8"	22	3,65			0,645

## Capped valves

Castel

Code	Type	Connection			Kv [m³/h]	PS [bar]	TS [°C]	
		SAE	ODS				min	max
			Ø [in.]	Ø [mm]				
47-3230-6420-M10	6420/M10	-	-	10	1	45	-60	+110



**Service valves**

Universal

Code	Description	Picture
47-323002-00	service valve without tube, solder connection: 6 [mm] ODS, screw 1/4" SAE	
47-323002-16	service valve without tube Castel 8351/2, solder connection: 6, 8, 10 mm, screw 1/4" SAE	
47-323002-20	service valve without tube - complete, Castel 8351/2, solder connection: 6, 8, 10 [mm] ODS	
47-323002-07	service valve without tube, flare connection: 1/4 x 1/4" SAE	
47-323002-06	service valve without tube with thorn, solder connection: 1/8, 3/16, 1/4, 5/16, 3/8, 1/2" ODS	
47-323002-50	service valve with tube DE.NA 6 x 50 [mm] DE.NA, thickness tube: 1 [mm]	
47-323002-50C	service valve with tube versatile 6 x 50 [mm], thickness tube: 1 [mm]	
47-323002-100	service valve with tube DE.NA, solder connection: 6 mm x 100 mm, thickness tube: 1 [mm]	
47-323002-125	service valve with tube DE.NA, connection: 6 x 1 x 125 [mm], thickness tube: 1 [mm]	
47-323002-02	service valve with tube versatile, solder connection: 5/16" x 60 [mm], screw 1/4" SAE, thickness tube: 1 [mm]	
47-323002-03	service valve with tube universal, solder connection: 3/8" x 60 [mm], screw 1/4" SAE, thickness tube: 1 [mm]	
47-323002-05	service valve with tube versatile, solder connection: 1/4" x 100 [mm], screw 1/4" SAE, thickness tube: 1 [mm]	
47-323002-12	spare valve cores, R134a, 28 [bar]	
47-323002-19	spare valve cores, R134a, 60 bar, Castel 8395/A1	
47-323002-09	service valve connection: 6,3 - 7,9 - 9,5 mm, screw 1/4" SAE	
47-323002-10	service valve, connection: 12,7 - 15,8 mm, screw 1/4" SAE	
47-323002-15	service valve, connection: 3/16" - 3/8" O.D., 1/4" SAE	
47-323002-13	caps with gasket, internal 1/4" SAE	

**Reducing valves**

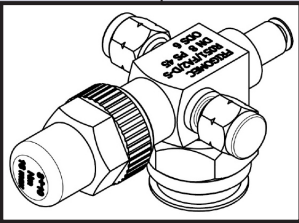
Universal

Code	Type	Connection	
<b>2-way</b>			
47-323005-204	IASV - 204	1/4" ODS x 1/4" SAE	
<b>3-way</b>			
47-323005-306	IASV - 306	3/8" ODS x 3/8" SAE, + 1/4"	
47-323005-308	IASV - 308	1/2" ODS x 1/2" SAE, + 1/4"	
47-323005-310	IASV - 310	5/8" ODS x 5/8" SAE, + 1/4"	
47-323005-312	IASV - 312	3/4" ODS x 3/4" SAE, + 1/4"	
47-323005-314	IASV - 314	7/8" ODS x 7/8" SAE, + 1/4"	
<b>Castel</b>			
47-3230-6175-55	6175/55	5/8" SAE	

**Rotalock valves -  
solder connection**

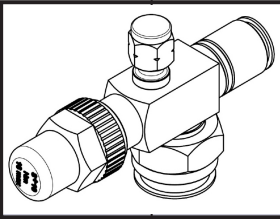
Dualport

Code	Connection rotalock	Discharge [ODS]
47-323007-00	3/4"	10 mm
47-323007-42	1"	6 mm
47-323007-15	1"	10 mm
47-323007-14	1"	12 mm
47-323007-16	1"	16 mm
47-323007-13	1 1/4"	12 mm
47-323007-09	1 1/4"	16 mm
47-323007-29	1 1/4"	18 mm
47-323007-30	1 1/4"	22 mm
47-323007-31	1 1/4"	28 mm
47-323007-04	1 1/4"	18 mm
47-323007-34	1 3/4"	22 mm
47-323007-02	1 3/4"	28 mm
47-323007-35	1 3/4"	35 mm
47-323007-36	1 3/4"	42 mm
47-323007-40	2 1/4"	35 mm
47-323007-39	2 1/4"	42 mm
47-323007-41	2 1/4"	54 mm

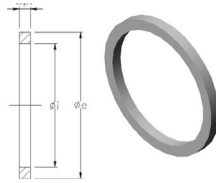

**Rotalock valves -  
solder connection**

Singleport

Code	Connection rotalock	Discharge [ODS]
47-323007-43	1"	6 mm
47-323007-44	1"	10 mm
47-323007-45	1"	16 mm
47-323007-46	1 1/4"	16 mm
47-323007-47	1 1/4"	22 mm
47-323007-48	1 3/4"	22 mm


**Rotalock valves -  
for bracket**

Code	Connection rotalock	Dimensions [SAE]	Orig. code
47-323007-51	flange	1/2"	
47-323007-50	flange	3/8"	
47-323007-60	1"	3/8"	6320/3, Castel
47-323007-61	1"	1/2"	6320/4, Castel
47-323007-62	1"	5/8"	6320/5, Castel

**Teflon gasket for  
rotalock valves**


Code	Description
47-323007-25	teflon gasket for rotalock valve 3/4"
47-323007-20	teflon gasket for rotalock valve 1"
47-323007-21	teflon gasket for rotalock valve 1 1/4"
47-323007-23	teflon gasket for rotalock valve 1 3/4"
47-323007-24	teflon gasket for rotalock valve 2 1/4"

**Welding adapter  
«on the tube» for valve**

Code	Connection solder [mm]	Port rotalock	Dimensions [mm]	
			Total lenght	Length tube
47-323008-100-12	12	1"	47	25
47-323008-114-18	18	1 1/4"	52	25
47-323008-114-22	22	1 1/4"	52	25
47-323008-134-28	28	1 3/4"	53	25
47-323008-134-35	35	1 3/4"	53	25

**Welding adapter  
«in the tube» for valve**

Code	Connection solder ODS [mm]	Discharge rotalock	Dimension [mm]	
			Total lenght	Length tube
47-323008-F-100-12	12	1"	26	12
47-323008-F-114-18	19	1 1/4"	33,5	16
47-323008-F-114-22	22	1 1/4"	33,5	14
47-323008-F-114-28	28	1 1/4"	33,5	14
47-323008-F-134-28	28	1 3/4"	33,5	20
47-323008-F-134-35	35	1 3/4"	33,5	20
47-323008-F-214-42	42	2 1/4"	50	20
47-323008-F-214-54	54	2 1/4"	50	20

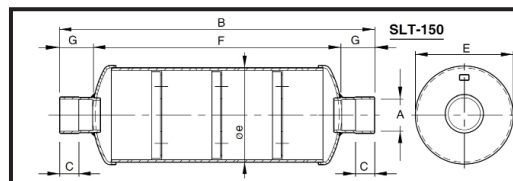
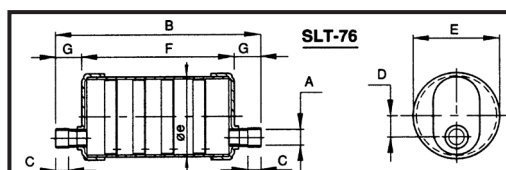
## Adapters screw

Code	Connection rotalock	Depth of insertion of tube [mm]	Dimensions [mm]		
			Total length	Length tube	ø Tubing
47-323009-100-10	1"	10	42,5	10	12
47-323009-100-12	1"	12	42,5	10	14
47-323009-100-16	1"	16	42,5	10	16
47-323009-114-12	1 1/4"	12	47	15	14
47-323009-114-16	1 1/4"	16	47	15	20
47-323009-114-18	1 1/4"	18	47	15	22
47-323009-114-22	1 1/4"	22	52	20	26
47-323009-134-22	1 3/4"	22	67,5	20	26
47-323009-134-28	1 3/4"	28	67,5	25	32
47-323009-134-35	1 3/4"	35	67,5	25	39
47-323009-134-42	1 3/4"	42	72,5	30	47
47-323009-214-42	2 1/4"	42	76	25	47

## Mufflers

Code	Model	Compressor capacity	Cooling capacity [kW]	Connection [mm]	Speed [m/s]
47-32SLT76-12	SLT-76/12	3÷5	~9,5/~14,5	12	13÷18,5
47-32SLT76-16	SLT-76/16	7,5÷10	~14,5/~32,5	16	13÷18,5
47-32SLT76-22	SLT-76/22	12÷20	~36/~55	22	12÷19
47-32SLT76-28	SLT-76/28	25÷35	~56/~86	28	12÷19
47-32SLT100-35	SLT-100/35	35÷50	~86/~120	35	12÷19
47-32SLT100-42	SLT-100/42	35÷50	~120/~160	42	12÷19
47-32SLT150-54	SLT-150/54	-	-	54	-

Type	Model	Dimensions [mm]								Weight [kg]	Extent [l]
		A	B	C	D	E	ø e	F	G		
SLT-76	SLT-76/12	12	192	12	20	82	76	144	24	1,1	0,53
	SLT-76/16	16	195	13	20	82	76	144	25,5	1,1	0,53
	SLT-76/22	22	248	25	12	82	76	175	36,5	1,3	0,65
	SLT-76/28	28	248	25	12	82	76	175	36,5	1,3	0,65
SLT-100	SLT-100/35	35	350	25	23	106	100	230	60	2,4	1,6
	SLT-100/42	42	460	25	18	106	100	330	65	3,15	2,3
SLT-150	SLT-150/54	54	520	30	-	160	150	410	55	7,6	6,4



**Sight glass**

Alco

Max. allowable pressure: 45 bar

Code	Type	Connection ODS	Length [mm]
47-32MIA-006	MIA M06	6 x 6 mm	98
47-32MIA-010	MIA M10	10 x 10 mm	109
47-32MIA-012	MIA M12	12 x 12 mm	113
47-32MIA-058	MIA 058	5/8" x 5/8" (16 mm)	108,5
47-32MIA-078	MIA M22	7/8" x 7/8" (22 mm)	122,5

**Sight glass - solder**

Danfoss

 Max. allowable pressure: 45 bar  
 Temperature range: -50 till 80°C

Code	Type	Connection ODF	Refrigerant
47-32014-0191	SGN 6s	6 x 6 mm	HCF
47-32014-0192	SGN 10s	10 x 10 mm	HCF
47-32014-0193	SGN 12s	12 x 12 mm	HCF
47-32014-0184	SGN 16s	16 x 16 mm	HCF
47-32014-0195	SGN 18s	18 x 18 mm	HCF
47-32014-0186	SGN 22s	22 x 22 mm	HCF

**Sight glass - flare**

Castel

 Max. allowable pressure: 45 bar  
 Temperature range: -30 till 110°C

Code	Model	Connection SAE (outer)	For tube
47-3235-3910-22	3910/22	1/4" x 1/4"	1/4" - 6 mm
47-3235-3910-33	3910/33	3/8" x 3/8"	3/8" - 10 mm
47-3235-3910-44	3910/44	1/2" x 1/2"	1/2" - 12 mm
47-3235-3910-55	3910/55	5/8" x 5/8"	5/8" - 16 mm
47-3235-3910-66	3910/66	3/4" x 3/4"	3/4" - 20 mm

 Max. allowable pressure: 45 bar  
 Temperature range: -30 till 110°C

Code	Model	Connection SAE (outer)	For tube
47-3235-3950-22	3950/22	1/4" x 1/4"	1/4" - 6 mm
47-3235-3950-33	3950/33	3/8" x 3/8"	3/8" - 10 mm
47-3235-3950-44	3950/44	1/2" x 1/2"	1/2" - 12 mm
47-3235-3950-55	3950/55	5/8" x 5/8"	5/8" - 16 mm
47-3235-3950-66	3950/66	3/4" x 3/4"	3/4" - 18 mm

**Sight glass -  
solder**

Castel

Max. allowable pressure: 45 bar  
Temperature range: -30 till 110°C

Code	Model	Connection ODS	For tube
47-3235-3940-2	3940/2	1/4" x 1/4"	6 mm
47-3235-3940-M10	3940/M10	10 x 10 mm	10 mm
47-3235-3940-M12	3940/M12	12 x 12 mm	12 mm
47-3235-3940-5	3940/5	5/8" x 5/8" (16 mm)	16 mm
47-3235-3940-M18	3940/M18	18 x 18 mm	18 mm
47-3235-3940-7	3940/7	7/8" x 7/8" (22 mm)	22 mm
47-3235-3940-9	3940/9	1 1/8" x 1 1/8" (28 mm)	28 mm
47-3235-3770-M28	3770/M28	28 x 28 mm	28 mm
47-3235-3771-11	3771/11	1 3/8" x 1 3/8" (35 mm)	35 mm
47-3235-3771-M42	3771/M42	42 x 42 mm	42 mm
47-3235-3771-17	3771/17	2 1/8" x 2 1/8" (54 mm)	54 mm

**Sight glass saddle type -  
solder**

Castel

Max. allowable pressure: 35 bar  
Temperature range: -30 till 110°C

Code	Model	Connection ODS	For tube
47-3235-3780-7	3780/7	7/8" x 7/8" (22 mm)	22 mm
47-3235-3780-9	3780/9	1 1/8" x 1 1/8" (28 mm)	28 mm
47-3235-3780-11	3780/11	1 3/8" x 1 3/8" (35 mm)	35 mm

**Sight  
glass**

Honeywell

Max. allowable pressure: 36 bar  
Max. temperature range: 80°C

Code	Type	Connection
47-32SBI-06	SBI 6	1/4" x 1/4" SAE
47-32SBI-10	SBI 10	3/8" x 3/8" SAE
47-32SBI-12	SBI 12	1/2" x 1/2" SAE
47-32SBI-16	SBI 16	5/8" x 5/8" SAE


Max. allowable pressure: 36 bar  
Max. temperature range: 80°C

Code	Type	Connection
47-32SBIA-06	SBIA 06	1/4" x 1/4" SAE
47-32SBIA-10	SBIA 10	3/8" x 3/8" SAE
47-32SBIA-12	SBIA 12	1/2" x 1/2" SAE



Max. allowable pressure: 47 bar  
Max. temperature range: 80°C

Code	Type	Connection [mm]
47-32SLI-06	SLI 6	6 x 6 ODF
47-32SLI-10	SLI 10	10 x 10 ODF
47-32SLI-12	SLI 12	12 x 12 ODF
47-32SLI-16	SLI 16	16 x 16 ODF
47-32SLI-22	SLI 22	22 x 22 ODF
47-32SLI-28	SLI 28	28 x 28 ODF


**Sight glass - solder**

Universal

Code	Type	Connection ODS
47-323520-04	SG - 04S	6 mm, (1/4")
47-323520-06	SG - 06S	10 mm, (3/8")
47-323520-08	SG - 08S	12 mm, (1/2")
47-323520-10	SG - 10S	16 mm, (5/8")

**Sight glass - flare**

Universal

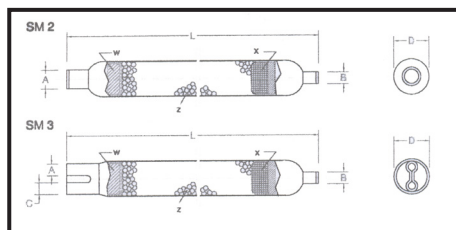
Code	Type	Connection
47-323521-04	SG - 04	1/4" SAE, (6 mm)
47-323521-06	SG - 06	3/8" SAE, (10 mm)
47-323521-08	SG - 08	1/2" SAE, (12 mm)
47-323521-10	SG - 10	5/8" SAE, (16 mm)
47-323521-12	SG - 12	3/4" SAE, (18 mm)

**Copper dryers for all refrigerants XH9**

DE.NA

Code	Type	Connection [mm]	Dimensions [mm]	Filling weight [g]
47-3232-10-01	2 - way	5 x 2,1	16 x 112	10
47-3232-10-02	2 - way	6,2 x 2,2	16 x 112	10
47-3232-10-03	2 - way	6,2 x 3,2	16 x 112	10
47-3232-13-01	2 - way	5 x 2,1	19 x 108	13,5
47-3232-13-02	2 - way	6,2 x 2,1	19 x 108	13,5
47-3232-15-01	2 - way	5 x 2,1	19 x 120	15
47-3232-15-03	2 - way	2,5 x 6,5	19 x 120	15
47-3232-20-01	2 - way	6,2 x 2,5	19 x 141	20
47-3232-20-02	2 - way	5,2 x 2,5	19 x 141	20
47-3232-20-03	2 - way	6,2 x 2,3	19 x 141	20

Code	Type	Connection [mm]	Dimensions [mm]	Filling weight [g]
47-3232-20-04	2 - way	6,2 x 3,2	24 x 141	20
47-3232-25-00	2 - way	6,2 x 2,5	24 x 141	25
47-3232-25-01	2 - way	6,2 x 6,2	24 x 141	25
47-3232-30-01	2 - way	6,2 x 2,5	24 x 140	30
47-3232-30-02	2 - way	6,1 x 6,1	24 x 140	30
47-3232-30-03	2 - way	6,1 x 3,2	24 x 140	30
47-3232-40-01	2 - way	6,2 x 2,5	24 x 170	40
47-3232-50-01	2 - way	6,2 x 2,5	24 x 200	50
47-3233-10-01	3 - way	6,5 x 6,2 x 3,2	16 x 117	10
47-3233-10-02	3 - way	6,2 x 6,2 x 2,5	16 x 117	10
47-3233-15-00	3 - way	6,2 x 6,2 x 2,5	19 x 125	15
47-3233-15-01	3 - way	6,2 x 6,2 x 6,2	19 x 125	15
47-3233-20-00	3 - way	6,2 x 6,2 x 2,2	19 x 146	20
47-3233-20-01	3 - way	6,2 x 6,2 x 6,2	19 x 145	20
47-3233-30-00	3 - way	6,2 x 6,2 x 2,5	24 x 145	30
47-3233-30-01	3 - way	6,2 x 6,2 x 6,2	24 x 145	30
47-3233-30-02	3 - way	1/4" x 2,5 x 2,5	24 x 145	30
47-3233-50-00	3 - way	6,2 x 6,2 x 6,2	24 x 205	50
47-3233-50-01	3 - way	6,2 x 6,2 x 2,5	24 x 205	50
47-3234-13-00	with valve	6,35 x 2,5 + schrader	19 x 120	13,5
47-3234-30-00	with valve	6,35 x 3,1 + schrader	24 x 150	30



## Accumulators

DE.NA

Code	Connection [mm]	Dimensions [mm]
47-3233-90-00	10,2 x 8,5	24 x 145
47-3233-90-01	10 x 10	24 x 145
47-3233-90-02	10 x 10	24 x 145
47-3233-90-03	8 x 8	24 x 120
47-3233-93-00	12 x 12	30 x 120
47-3233-93-01	12 x 12	30 x 245
47-3233-93-02	12 x 12	30 x 255
47-3233-93-03	8,2 x 8,2	30 x 120



**Filter drier - screw**

DE.NA

Max. allowable pressure: 42 bar, max. working pressure: -40 till 80°C

Connections - fittings without union nuts.

For all refrigerant.

Code	Connection type / SAE	Tube Ø [mm]	Nominal volume [cm <sup>3</sup> ]	Length [mm]	Breadth [mm]
47-3250-032	047-32/ 1/4"	6	50	100	52
47-3250-052	052 / 1/4"	6	80	115	52
47-3250-053	053 / 3/8"	10	80	125	52
47-3250-082	082 / 1/4"	6	130	142	52
47-3250-083	083 / 3/8"	10	130	156	52
47-3250-084	084 / 1/2"	12	10	162	52
47-3250-163	163 / 3/8"	10	250	168	73
47-3250-164	164 / 1/2"	12	250	174	73
47-3250-165	165 / 5/8"	16	250	183	73
47-3250-304	304 / 1/2"	12	500	200	91
47-3250-305	305 / 5/8"	16	500	210	91
47-3250-414	414 / 1/2"	12	670	240	91
47-3250-415	415 / 3/4"	18	670	240	91
47-3250-416	416 / 5/8"	16	670	242	91

**Filter drier - solder**

DE.NA

Max. allowable pressure: 42 bar, max. working pressure: -40 till 80°C

For all refrigerant.

Code	Connection type	Tube Ø [mm]	Nominal volume [cm <sup>3</sup> ]	Length [mm]	Breadth [mm]
47-32500-032	032	6	50	100	52
47-32500-052	052	6	80	115	52
47-32500-053	053	10	80	125	52
47-32500-082	082	6	130	142	52
47-32500-083	083	10	130	156	52
47-32500-084	084	12	130	162	52
47-32500-163	163	10	250	168	73
47-32500-164	164	12	250	174	73
47-32500-165	165	16	250	183	73
47-32500-304	304	12	500	200	91
47-32500-305	305	16	500	210	91

**Filter driers - 100% molecular sieve - flare**

Castel

Max. allowable pressure: 45 bar, max. working pressure: -40 till 80°C

Code	Model	Connection SAE	Nominal volume [cm <sup>3</sup> ]
47-32570-4303-2	4303/2	1/4" x 1/4"	50
47-32570-4303-3	4303/3	3/8" x 3/8"	50
47-32570-4305-2	4305/2	1/4" x 1/4"	80
47-32570-4305-3	4305/3	3/8" x 3/8"	80
47-32570-4308-2	4308/2	1/4" x 1/4"	130

Code	Model	Connection SAE	Nominal volume [cm <sup>3</sup> ]
47-32570-4308-3	4308/3	3/8" x 3/8"	130
47-32570-4308-4	4308/4	1/2" x 1/2"	130
47-32570-4316-2	4316/2	1/4" x 1/4"	250
47-32570-4316-3	4316/3	3/8" x 3/8"	250
47-32570-4316-4	4316/4	1/2" x 1/2"	250
47-32570-4316-5	4316/5	5/8" x 5/8"	250
47-32570-4330-3	4330/3	3/8" x 3/8"	500
47-32570-4330-4	4330/4	1/2" x 1/2"	500
47-32570-4330-5	4330/5	5/8" x 5/8"	500
47-32570-4332-4	4332/4	1/2" x 1/2"	500
47-32570-4332-5	4332/5	5/8" x 5/8"	500
47-32570-4341-4	4341/4	1/2" x 1/2"	670
47-32570-4341-5	4341/5	5/8" x 5/8"	670
47-32570-4341-6	4341/6	3/4" x 3/4"	670



### Filter driers - 100% molecular sieve - solder

Castel

Max. allowable pressure: 42 bar, max. working pressure: -40 till 80°C

Code	Model	Connection	Nominal volume [cm <sup>3</sup> ]
47-32570-4303-2S	4303/2S	1/4" ODS or 3/8" ODM	50
47-32570-4303-3S	4303/3S	3/8" ODS or 1/2" ODM	50
47-32570-4305-2S	4305/2S	1/4" ODS or 3/8" ODM	80
47-32570-4305-3S	4305/3S	3/8" ODS or 1/2" ODM	80
47-32570-4305-M10S	4305/M10	10 mm ODS or 12 mm ODM	80
47-32570-4308-2S	4308/2S	1/4" ODS or 3/8" ODM	130
47-32570-4308-3S	4308/3S	3/8" ODS or 1/2" ODM	130
47-32570-4308-4S	4308/4S	1/2" ODS or 5/8" (16 mm) ODM	130
47-32570-4308-M10S	4308/M10S	10 mm ODS or 12 mm ODM	130
47-32570-4308-M12S	4308/M12S	12 mm ODS or 14 mm ODM	130
47-32570-4316-M10S	4316/M10S	10 mm ODS or 12 mm ODM	250
47-32570-4316-M12S	4316/M12S	12 mm ODS or 14 mm ODM	250
47-32570-4316-3S	4316/3S	3/8" ODS or 1/2" ODM	250
47-32570-4316-4S	4316/4S	1/2" ODS or 5/8" (16 mm) ODM	250
47-32570-4316-5S	4316/5S	5/8" (16 mm) ODS or 3/4" ODM	250
47-32570-4316-7S	4316/7S	7/8" ODS or 1.1/8" ODM	250
47-32570-4330-3S	4330/3S	3/8" ODS or 1/2" ODM	500
47-32570-4330-5S	4330/5S	5/8" (16 mm) ODS or 3/4" ODM	500
47-32570-4330-7S	4330/7S	7/8" ODS or 1.1/8" ODM	500
47-32570-4330-9S	4330/9S	1 1/8" ODS or 1 3/8" ODM	500
47-32570-4332-4S	4332/4S	1/2" ODS or 5/8" (16 mm) ODM	500
47-32570-4332-5S	4332/5S	5/8" ODS (16 mm) or 3/4" ODM	500
47-32570-4341-5S	4341/5S	5/8" ODS (16 mm) or 3/4" ODM	670
47-32570-4341-6S	4341/6S	3/4" ODS or 7/8" ODM	670
47-32570-4341-7S	4341/7S	7/8" ODS or 1.1/8" ODM	670
47-32570-4375-5S	4375/5S	5/8" ODS (16 mm) or 3/4" ODM	1340
47-32570-4375-7S	4375/7S	7/8" ODS or 1.1/8" ODM	1340
47-32570-4375-9S	4375/9S	1 1/8" ODS or 1 3/8" ODM	1340



**Filter driers - anti acid - flare**

Castel

Filter drier- block (80% molecular sieve, 20% activated Alumina).

Max. allowable pressure: 42 bar, working pressure: -40 till 80°C

Code	Model	Connection SAE	Nominal volume [cm <sup>3</sup> ]
47-32570-4203-2	4203/2	1/4" x 1/4"	50
47-32570-4203-3	4203/3	3/8" x 3/8"	50
47-32570-4205-2	4205/2	1/4" x 1/4"	80
47-32570-4205-3	4205/3	3/8" x 3/8"	50
47-32570-4208-2	4208/2	1/4" x 1/4"	130
47-32570-4208-3	4208/3	3/8" x 3/8"	130
47-32570-4208-4	4208/4	1/2" x 1/2"	130
47-32570-4216-3	4216/3	3/8" x 3/8"	250
47-32570-4216-4	4216/4	1/2" x 1/2"	250
47-32570-4216-5	4216/5	5/8" x 5/8"	250
47-32570-4230-3	4230/3	3/8" x 3/8"	500
47-32570-4230-4	4230/4	1/2" x 1/2"	500
47-32570-4230-5	4230/5	5/8" x 5/8"	500
47-32570-4241-5	4241/5	5/8" x 5/8"	670
47-32570-4241-6	4241/6	3/4" x 3/4"	670

**Filter driers - anti acid - solder**

Castel

Filter drier - block (80% molecular sieve, 20% activated Alumina).

Max. allowable pressure: 42 bar, working pressure: -40 till 80°C

Code	Model	Connection	Nominal volume [cm <sup>3</sup> ]
47-32570-4203-2S	4203/2S	1/4" ODS or 3/8" ODM	50
47-32570-4205-2S	4205/2S	3/8" ODS or 1/2" ODM	80
47-32570-4208-2S	4208/2S	1/4" ODS or 3/8" ODM	130
47-32570-4208-3S	4208/3S	3/8" ODS or 1/2" ODM	130
47-32570-4208-4S	4208/4S	1/2" ODS or 5/8" ODM	130
47-32570-4216-4S	4216/4S	1/2" ODS or 5/8" ODM	250
47-32570-4216-5S	4216/5S	5/8" ODS or 3/4" ODM	250
47-32570-4216-M10S	4216/M10S	10 mm ODS or 12 mm ODM	250
47-32570-4216-M12S	4216/M12S	12 mm ODS or 14 mm ODM	250
47-32570-4230-3S	4230/3S	3/8" ODS or 1/2" ODM	500
47-32570-4230-4S	4230/4S	1/2" ODS or 5/8" (16 mm) ODM	500
47-32570-4230-5S	4230/5S	5/8" (16 mm) ODS or 3/4" ODM	500
47-32570-4232-5S	4232/5S	5/8" (16 mm) ODS or 3/4" ODM	500
47-32570-4241-5S	4241/5S	5/8" ODS	670
47-32570-4241-6S	4241/6S	3/4" ODS or 7/8" ODM	670
47-32570-4241-7S	4241/7S	7/8" ODS or 1.1/8" ODM	670
47-32570-4275-6S	4275/6S	3/4" ODS or 7/8" ODM	1340
47-32570-4275-7S	4275/7S	7/8" ODS or 1.1/8" ODM	1340
47-32570-4275-9S	4275/9S	1.1/8" ODS or 1.3/8" (35 mm) ODM	1340

### Filter driers - solid core with sight glass

Castel

Max. allowable pressure: 45 bar, working pressure: -40 till 80°C

Code	Model	Connection	Nominal volume [cm <sup>3</sup> ]
47-32570-4108-2S	4108/2S	1/4" ODS or 3/8" ODM	130
47-32570-4108-3S	4108/3S	3/8" ODS or 1/2" ODM	130
47-32570-4108-4S	4108/4S	1/2" ODS or 5/8" (16 mm) ODM	130
47-32570-4116-5S	4116/5S	5/8" (16 mm) or 3/4" ODM	250
47-32570-4116-M10S	4116/M10S	10 mm ODS or 12 mm ODM	250
47-32570-4116-M12S	4116/M12S	12 mm ODS or 14 mm ODM	250

### Filter driers - bidirectional

Castel

Max. allowable pressure: 45 bar, working pressure: -40 till 80°C

Code	Model	Connection	Nominal volume [cm <sup>3</sup> ]
47-32570-4608-3S	4608/3S	3/8" ODS or 1/2" ODM	130
47-32570-4608-4S	4608/4S	1/2" ODS or 5/8" (16 mm) ODM	130
47-32570-4616-3S	4616/3S	3/8" ODS or 1/2" ODM	250
47-32570-4616-4S	4616/4S	1/2" ODS or 5/8" (16 mm) ODM	250
47-32570-4616-5S	4616/5S	5/8" ODS (16 mm) or 3/4" ODM	250
47-32570-4616-7S	4616/7S	7/8" ODS or 1 1/8" ODM	250

### Filter cartridge

Castel

Code	Model	Description	Nominal volume
47-32570-4490-A	4490/A	dehydration	800 cm <sup>3</sup>
47-32570-4490-AA	4490/AA	anti acid	800 cm <sup>3</sup>
47-32570-4491-A	4491/A	dehydration	1600 cm <sup>3</sup>
47-32570-4495-C	4495/C	filtering surface	820 cm <sup>2</sup>
47-32570-4496-C	4496/C	filtering surface	1850 cm <sup>2</sup>

### Filter driers - with replaceable solid core

Castel

AF - iron ends, A - cu ends

Nut or valve are not include - must be ordered separately.

Max. allowable pressure: 45 bar, working pressure: -40 till 80°C

Code	Model	Connection	Nominal volume [cm <sup>3</sup> ]
<b>With replacement solid core</b>			
47-32570-4411-7A	4411/7A	7/8" (22 mm) ODS	800
47-32570-4411-5AF	4411/5AF	5/8" (16 mm) ODS	800
47-32570-4411-7AF	4411/7AF	7/8" (22 mm) ODS	800
47-32570-4411-9AF	4411/9AF	1 1/8" ODS	800
47-32570-4411-11AF	4411/11AF	1 3/8" (35 mm) ODS	800
47-32570-4411-M42AF	4411/M42AF	42 mm	800
47-32570-4411-17AF	4411/17AF	2 1/8" (54 mm) ODS	800
47-32570-4411-21AF	4411/21AF	2 5/8" (64 mm) ODS	800

Code	Model	Connection	Nominal volume [cm <sup>3</sup> ]
<b>With 2 replacement solid cores</b>			
47-32570-4412-7AF	4412/7AF	7/8" (22 mm) ODS	1600
47-32570-4412-9AF	4412/9AF	1 1/8" ODS	1600
47-32570-4412-11AF	4412/11AF	1 3/8" (35 mm) ODS	1600
47-32570-4412-M42AF	4412/M42AF	42 mm	1600
47-32570-4412-17AF	4412/17AF	54 mm	1600
<b>With 3 replacement solid cores</b>			
47-32570-4413-11AF	4413/11AF	1 3/8" (35 mm) ODS	2400
47-32570-4413-M42AF	4413/M42AF	42 mm ODS	2400
<b>With 4 replacement solid cores</b>			
47-32570-4414-17AF	4414/17AF	2 1/8" (54 mm) ODS	3200
47-32570-4414-M42AF	4414/M42AF	42 mm ODS	3200
<b>Accessories</b>			
47-32570-7520-2	NPT plug		
47-32570-G9150-R05	access fittings + valve core + cap for serie 44..., G9150/R05		

### Filter solder connection

Castel

Max. working pressure: 45 bar, temperature range: -40 till 80°C

Code	Model	Description	Filtering surface [cm <sup>2</sup> ]
47-32570-4520-5	4520/5	5/8" (16 mm) ODS or 3/4" ODM	58
47-32570-4520-M10	4520/M10	10 mm ODS or 12 mm ODM	58
47-32570-4520-M12	4520/M12	12 mm ODS or 14 mm ODM	58
47-32570-4510-3	4510/3	3/8" SAE	58

### Mechanical filter with replaceable filtering block

Castel

Max. working pressure: 45 bar, temperature range: -40 till 80°C

Code	Type	Connection ODS	Filtering surface [cm <sup>2</sup> ]
47-32570-4411-9C	4411/9C	1 1/8"	820
47-32570-4411-11C	4411-11C	1 3/8" (35 mm)	820
47-32570-4411-M42C	4411/M42C	42 mm	820
47-32570-4411-17C	4411/17C	2 1/8" (54 mm)	820
47-32570-4411-21C	4411-21C	2.5/8"	820
47-32570-4421-21C	4421/21C	2 5/8" (64 mm)	1850
47-32570-4421-25C	4421/25C	89 mm	1850
47-32570-4421-33C	4421/33C	108 mm	1850

**Filter driers**  
**ADK - flare**

Alco

Max. working pressure: 45 bar, temperature range: -40 till 65°C

Code	Type	Connection SAE [mm]	Volume [cm <sup>3</sup> ]
47-32ADK-032	003595	1/4", 6 mm	50
47-32ADK-052	003598	1/4", 6 mm	80
47-32ADK-053	003601	3/8", 10 mm	80
47-32ADK-082	003604	1/4", 6 mm	130
47-32ADK-083	003607	3/8", 10 mm	130
47-32ADK-084	003610	1/2", 12 mm	130
47-32ADK-163	003614	3/8", 10 mm	250
47-32ADK-164	003617	1/2", 12 mm	250
47-32ADK-165	003620	5/8", 16 mm	250

**Filter driers**  
**ADK - solder**

Alco

Max. working pressure: 45 bar, temperature range: -40 till 65°C

Code	Type	Connection [mm] ODF	Volume [cm <sup>3</sup> ]
47-32ADK-036MMS	003597	6	50
47-32ADK-0510MMS	003603	10	80
47-32ADK-056MMS	003600	6	80
47-32ADK-0810MMS	003609	10	130
47-32ADK-0812MMS	003612	12	130
47-32ADK-1610MMS	003616	10	250
47-32ADK-1612MMS	003619	12	250
47-32ADK-164S	003618	1/2" (12 mm)	250
47-32ADK-165S	003621	5/8" (16 mm)	250
47-32ADK-307S	003628	7/8" (22 mm)	500
47-32ADK-759S	003636	1 1/8" (28 mm)	

**Filter driers**  
**FDB - flare**

Alco

Max. working pressure: 45 bar, temperature range: -40 till 65°C

Code	Type	Code Alco	Connection SAE	Volume [cm <sup>3</sup> ]
47-32581-032	FDB-032	059305	1/4" (6 mm)	50
47-32581-052	FDB-052	059307	1/4" (6 mm)	80
47-32581-053	FDB-053	059308	3/8" (10 mm)	80
47-32581-082	FDB-082	059311	1/4" (6 mm)	130
47-32581-083	FDB-083	059312	3/8" (10 mm)	130
47-32581-084	FDB-084	059313	1/2" (12 mm)	130
47-32581-163	FDB-163	059318	3/8" (10 mm)	250
47-32581-164	FDB-164	059319	1/2" (12 mm)	250
47-32581-165	FDB-165	059320	5/8" (16 mm)	250
47-32581-304	FDB-304	059325	1/2" (12 mm)	500
47-32581-305	FDB-305	059326	5/8" (16 mm)	500
47-32581-415	FDB-415	059329	5/8" (16 mm)	670

**Filter driers  
FDB - solder**

Alco

Max. working pressure: 45 bar, temperature range: -40 till 65°C

Code	Type	Code Alco	Connection ODF	Volume [cm <sup>3</sup> ]
47-32581-032S	FDB-032S	059306	1/4" (6 mm)	50
47-32581-052S	FDB-052S	059309	1/4" (6 mm)	80
47-32581-053S	FDB-053S	059310	3/8" (10 mm)	80
47-32581-082S	FDB-082S	059314	1/4" (6 mm)	130
47-32581-083S	FDB-083S	059315	3/8" (10 mm)	130
47-32581-084S	FDB-084S	059316	1/2" (12 mm)	130
47-32581-163S	FDB-163S	059321	3/8" (10 mm)	250
47-32581-164S	FDB-164S	059322	1/2" (12 mm)	250
47-32581-165S	FDB-165S	059323	5/8" (16 mm)	250
47-32581-304S	FDB-304S	003667	1/2" (12 mm)	500
47-32581-305S	FDB-305S	059327	5/8" (16 mm)	500
47-32581-307S	FDB-307S	059328	7/8" (22 mm)	500
47-32581-417S	FDB-417S	059330	7/8" (22 mm)	670

**Filter driers bidirectional  
BFK - flare / solder**

Alco

Max. working pressure: 45 bar, working pressure: -40 till 65°C

Code	Type	Code Alco	Connection SAE	Volume [cm <sup>3</sup> ]
<b>Flare</b>				
47-32580-052	BFK-052	007343	1/4" x 1/4"	80
47-32580-083	BFK-083	007345	3/8" x 3/8"	130
47-32580-084	BFK-084	007347	3/8" x 3/8"	130
47-32580-163	BFK-163	007349	3/8" x 3/8"	250
47-32580-164	BFK-164	007351	1/2" x 1/2"	250

Max. working pressure: 45 bar, working pressure: -40 till 65°C

Code	Type	Code Alco	Connection ODF	Volume [cm <sup>3</sup> ]
<b>Solder</b>				
47-32580-052S	BFK-052S	007344	1/4" (6 mm)	80
47-32580-083S	BFK-083S	007346	3/8" (10 mm)	130
47-32580-084S	BFK-084S	007348	1/2" (12 mm)	130
47-32580-163S	BFK-163S	007350	3/8" (10 mm)	250
47-32580-164S	BFK-164S	007352	1/2" (12 mm)	250
47-32580-165S	BFK-165S	007354	5/8" (16mm)	250
47-32580-305S	BFK-305S	007356	5/8" (16mm)	500
47-32580-307S	BFK-307S	007357	7/8" (22 mm)	500
47-32580-309S	BFK-309S	007358	1.1/8" (28 mm)	500



**Filter driers  
ASF - solder**

Alco

Max. working pressure: 27,5 bar

Suction line filter. Filtration down to 10 microns.

Code	Model	Code Alco	Connection ODF
47-32582-ASF-28-S4	ASF-28 S4	008 941	1/2" (12 mm)
47-32582-ASF-35-S5	ASF-35 S5	008 915	5/8" (16 mm)
47-32582-ASF-45-S6	ASF-45 S6	008 946	3/4" (18 mm)
47-32582-ASF-45-S7	ASF-45 S7	008 904	7/8" (22 mm)
47-32582-ASF-50-S9	ASF-50 S9	008 908	1.1/8" (28 mm)
47-32582-ASF-75-S11	ASF-75 S11	008 919	1.3/8" (35 mm)
47-32582-ASF-75-S13	ASF-75 S13	008 940	1.5/8" (42 mm)

**Filter driers  
ASD - solder**

Alco

Max. working pressure: 27,5 bar

Code	Model	Code Alco	Connection ODF	Acid absorption capacity [g]
47-32582-ASD-28-S4	ASD-28 S4	008 910	1/2" (12 mm)	3,0
47-32582-ASD-35-S5	ASD-35 S5	008 899	5/8" (16 mm)	3,6
47-32582-ASD-45-S6	ASD-45 S6	008 925	3/4" (18 mm)	4,5
47-32582-ASD-45-S7	ASD-45 S7	008 896	7/8" (22 mm)	4,5
47-32582-ASD-50-S9	ASD-50 S9	008 881	1.1/8" (28 mm)	5,4
47-32582-ASD-75-S11	ASD-75 S11	008 891	1.3/8" (35 mm)	7,9
47-32582-ASD-75-S13	ASD-75 S13	008 953	1.5/8" (42 mm)	7,9

**Filter driers  
ADKS plus - solder**

Alco

Max. working pressure: 34,5 bar (-10 till 68°C), 25,9 (-45 till -10°C)

Code	Code Alco	Connection [mm]	Number of block
47-32ADKS-485T	883551	5/8" (16 mm)	1
47-32ADKS-487T	883552	7/8" (22 mm)	1
47-32ADKS-489T	883553	1.1/8" (28 mm)	1
47-32ADKS-4811T	883554	1.3/8" (35 mm)	1
47-32ADKS-14417T	883564	2.1/8" (54 mm)	3


**Replaceable filter  
elements ADKS plus**

Alco

Code	Type	Code Alco	Acid absorption capacity [g]
47-32570-H48	H48	006969	44,6
47-32570-S48	S48	003508	16,3
47-32570-W48	W48	006970	39,7





**Filter driers**  
**DCL, DML - flare**

Danfoss

Max. working pressure: 46 bar, temperature range: -40 till 70°C

Code	Type	Connection	Volume [l]
<b>Typ DCL - Optimized for HCFC refrigerants with mineral or alkyl benzene oils and compatible with HFC refrigerants. They are approved for pressure 42 bar. 80% molecular sieve and 20% alumina core.</b>			
47-32023Z5002	DCL 052	1/4" SAE	0,051
47-32023Z5003	DCL 053	3/8" SAE	0,051
47-32023Z5004	DCL 082	1/4" SAE	0,066
47-32023Z5005	DCL 083	3/8" SAE	0,066
47-32023Z5006	DCL 084	1/2" SAE	0,066
47-32023Z5007	DCL 162	1/4" SAE	0,122
47-32023Z5008	DCL 163	3/8" SAE	0,122
47-32023Z5009	DCL 164	1/2" SAE	0,122
47-32023Z5010	DCL 165	5/8" SAE	0,122
47-32023Z0012	DCL 303	3/8" SAE	0,224
47-32023Z0013	DCL 304	1/2" SAE	0,224
47-32023Z0014	DCL 305	5/8" SAE	0,224
<b>Type DML - Solid core, 100% molecular sieve, for refrigerants HFC and mineral or benzen oils.</b>			
47-32023Z5039	DML 082	1/4" SAE	0,066


**Filter driers**  
**DCL, DML - solder**

Danfoss

Max. working pressure: 46 bar, temperature range: -40 till 70°C

Code	Type	Connection	Volume [cm <sup>3</sup> ]
<b>Type DML - Solid core, 100% molecular sieve, for refrigerants HFC and mineral or benzen oils.</b>			
47-32023Z4552	DML 032S	1/4" ODS	41
47-32023Z4559	DML 052S	1/4" ODS	67
47-32023Z4567	DML 082S	1/4" ODS	104
47-32023Z4569	DML 083S	10 mm ODS	104
47-32023Z4572	DML 084S	1/2"	104
47-32023Z4577	DML 163S	10 mm ODS	234
47-32023Z4580	DML 164S	1/2" ODS	234
47-32023Z4581	DML 165S	5/8" ODS	234
47-32023Z4587	DML 304S	1/2"	494
47-32023Z4588	DML 305S	5/8"	494
47-32023Z4590	DML 307S	7/8"	494
<b>Type DCL - Solid core, 80% molecular sieve, 20% activated aluminium, for refrigerants HCFC and CFC and mineral or benzen oils.</b>			
47-32023Z4502	DCL 032,5S	5/16" ODS	41
47-32023Z4515	DCL 084S	12 mm ODS	104
47-32023Z0106	DCL 417S	7/8" ODS	681

### Combined filter driers and receivers DMC - solder

Danfoss

Max. working pressure: 46 bar, temperature range: -40 till 70°C

Code	Type	Connection	Volume [cm <sup>3</sup> ]
<b>Solid core, 100% molecular sieve. Using in small hermetic systems with term. exp. valve.</b>			
47-32023Z7007	DMC 2032S	6 mm	53
47-32023Z7013	DMC 0732S	6 mm	53
47-32023Z7044	DMC 2032.5S	8 mm	53
47-32023Z7016	DMC 40163S	10 mm ODS	234
47-32023Z7029	DMC 40164S	12 mm ODS	234

### Replaceable filters

Danfoss

Code	Type	Description
47-32023U4381	48-DC	Anti acid 20% + dehydrator 80%
47-32023U5381	48-DA	Anti acid 20% + dehydrator 80%
47-32023U1496	48-DM	mechanical dirt
47-32023U1921	48-F	mechanical dirt
47-32023U8015	FSA 412M	solder adapter 1/2" x 1/2", flare/ solder adaptor



### Replaceable solid core filter driers

Parker

Code	Type	Description
47-32570-VS48SC	VS 48SC	replaceable solid core Parker VS 48SC

### Filter driers C-HH - Catch-All (burn-out)

Parker

Max. working pressure: 20,8 bar, temperature range: -40 till 80°C

Replace KMP filters WSL

Code	Type	Connection
<b>Soldering without inspection port</b>		
47-32560-0163	C-163-S-HH (WSL 163S)	10 mm
<b>Soldering with inspection port</b>		
47-32560-0164	C-164-S-T-HH (WSL 164S)	12 mm
47-32560-0165	C-165-S-T-HH (WSL 165S)	16 mm
47-32560-0166	C-166-S-T-HH (WSL 166S)	18 mm
47-32560-0167	C-167-S-T-HH (WSL 167S)	22 mm
47-32560-0305	C-305-S-T-HH (WSL 305S)	16 mm
47-32560-0307	C-307-S-T-HH (WSL 307S)	22 mm
47-32560-0419	C-419-S-T-HH (WSL 419S)	28 mm
47-32560-7511	C-4311-S-T-HH (WSL 7511S)	35 mm
47-32560-7513	C-4313-S-T-HH (WSL 7513S)	42 mm
<b>Screw without inspection port</b>		
47-32561-0163	C163-HH (WSL 163)	3/8" SAE
47-32561-0164	C-164-HH (WSL 164)	1/2" SAE
47-32561-0165	C-165-HH (WSL 165)	5/8" SAE



**Liquid sluggings - solder**

Alco


Max. working pressure: 20,7 bar (-45 till -10°C), 15,5 bar (-10 till +65 °C)

Code	Type	Connection ODS	Volume [l]
47-32A10-305	A10-305	5/8"	0,93
47-32A12-305	A12-305	5/8"	1,16
47-32A12-306	A12-306	3/4"	1,16
47-32A14-305	A14-305	5/8"	1,40
47-32A10-405	A10-405	5/8"	1,75
47-32A10-406	A10-406	3/4"	1,75
47-32A09-507	A09-507	7/8"	2,33
47-32A12-507	A12-507	7/8"	3,29
47-32A13-509	A13-509	1 1/8"	3,80
47-32A17-511	A17-511	1 3/8"	4,87
47-32A14-611	A14-611	1 3/8"	5,48
47-32A17-613	A17-613	1 5/8"	6,85
47-32A17-642	A17-642	42 mm	6,85

**Liquid sluggings**

Frigomec


Code	Type	Connection ODS	Volume [l]
47-32576-SL77	SL77		
47-32576-02S	02S	1/2" (12 mm)	1,3
47-32576-05S	05S	5/8" (16 mm)	1,6
47-32576-07S	07S	3/4" (18 mm)	5,6
47-32576-08S-22	08S-22	7/8" (22 mm)	7,8
47-32576-08S-28	08S-28	1 1/8" (28 mm)	7,8
47-32576-09S	09S	1 3/8" (35 mm)	11,0
47-32576-10S	10S	1 5/8" (42 mm)	19,0
47-32576-11S	11S	2 1/8" (54 mm)	24,5


**Oil separators OSH - solder**

Alco

Max. working pressure: 31 bar, temperature range: -10 till 150°C

Code	Type	Connection ODS	Volume [l]
47-32OSH-404	OSH-404	1/2"	2,0
47-32OSH-405	OSH-405	5/8"	2,4
47-32OSH-407	OSH-407	7/8"	2,8
47-32OSH-409	OSH-409	1.1/8"	3,0
47-32OSH-411	OSH-411	1.3/8"	3,6
47-32OSH-413	OSH-413	1.5/8"	3,6
47-32OSH-611	OSH-611	1.3/8"	6,5
47-32OSH-613	OSH-613	1.5/8"	7,9
47-32OSH-617	OSH-617	2.1/8"	7,9



### Oil separators + adapters

Danfoss

Max. working pressure: 28 bar, temperature range: -40 till 120°C

Code	Type	Connection	Volume [l]
47-32040B0010	OUB 1	3/4"-16 UNF-2B	0,52
47-32040B0040	OUB 4	1 3/8"-12 UNF-2B	2,46

Code	Description	Connection ODF [mm]
47-32040B0138	solder adapter for oil separator UOB 1	10
47-32040B0266	solder adapter for oil separator UOB 4	16
47-32040B0264	solder adapter for oil separator UOB 4	22
47-32040B0265	solder adapter for oil separator UOB 4	28

### Oil separators

Castel

Max. working pressure: 45 bar, temperature range: -10 till 130°C

Code	Type	Connection	Connection oil	Encore oil [kg]
47-32575-5540-4	5540/4	1/2" ODS or 5/8" (16 mm) ODM	1/4" SAE	0,4 - 0,5
47-32575-5540-5	5540/5	5/8" (16 mm) ODS or 3/4" ODM	1/4" SAE	0,4 - 0,5
47-32575-5540-7	5540/7	7/8" ODS or 1" ODM	1/4" SAE	0,4 - 0,5
47-32575-5540-9	5540/9	1.1/8" ODS or 1.3/8" (35 mm) ODM	1/4" SAE	0,4 - 0,5
47-32575-5540-11	5540/11	1.3/8" (35 mm) ODS or 1.5/8" ODM	1/4" SAE	0,6 - 0,7
47-32575-5540-M42	5540/M42	42 mm ODS	3/8" SAE	0,6 - 0,7
47-32575-5540-17	5540/17	2.1/8" (54 mm) ODS	3/8" SAE	0,6 - 0,7

### Liquid receivers

Klimal

Code	Volume [l]	Length [mm]	Connection solder			Connection fuse valve
			coming in [mm]	coming out [mm]	valve angle	
47-3261-FKR25.27	25	502	28	22	1 1/4" - 12 UNF	1/2" NPT

### Liquid receivers with Rotolock valve

Universal

Max. working pressure: 450 p.s.i.

Code	Type	Volume [l]	Inlet	Outlet
47-3261-101	CR 101	1,3	3/8" SAE	1/4" SAE
47-3261-103	CR 103	3,6	3/8" SAE	3/8" SAE
47-3261-104	CR 104	5,2	1/2" SAE	1/2" SAE

### Liquid receivers

Frigo-Mec

Max. working pressure 32 bar, temperature range: -10 till +90°C

Code	Volume [l]	Diameter [mm]	Height [mm]	Inlet/ Outlet	Weight [kg]
47-3261-08	0,8	80	220	8 mm	0,64
47-3261-15	1,5	100	240	16 mm	1,06
47-3261-23	2,3	120	235	16 mm	1,2
47-3261-68	6,8			12 mm ODS/1" 14UNS	4,64

Code	Volume [l]	Connection		Dimensions [mm]		Weight [kg]
		Outlet	Inlet	Diameter	Height	
47-3261-16	1,6 l	1" rotalock	10 mm tube	100	240	1,08
47-3261-34	3,4 l	1" rotalock	12 mm tube	130	300	2,13
47-3261-46	4,6 l	1" rotalock	12 mm tube	140	335	2,43
47-3261-56	5,6 l	1" rotalock	1" rotalock	160	345	
47-3261-69	6,9 l	1" rotalock	1" rotalock	160	420	
47-3261-71	7,1 l	1" rotalock	18 mm tube			
47-3261-78	7,8 l	1" rotalock	1" rotalock	175	390	4,82
47-3261-110	11 l	1.1/4" rotalock	1.1/4" rotalock	220	370	5,84
47-3261-130	13 l	1.1/4" rotalock	1.1/4" rotalock	225	430	6,82
47-3261-190	19 l	1.1/4" rotalock	1.1/4" rotalock	260	450	8,47
47-3261-245	24,5 l	1.1/4" rotalock	1.1/4" rotalock	280	490	15,77
47-3261-300	30 l	1.3/4" rotalock	1.3/4" rotalock	300	530	19,24



Max. working pressure: 45 bar.

Code	Volume [l]	Inlet	Outlet
47-3262-023-45	2,3	10 mm ODS	1"
47-3262-030-45	3,0	12 mm ODM	1"
47-3262-034-45	3,4	12 mm ODS	1"
47-3262-056-45	5,6	1"	1"
47-3262-067-45	6,7	1"	1"
47-3262-076-45	7,6	1"	1"
47-3262-078-45	7,8	1"	1"
47-3262-100-45	10,0	1"	1"
47-3262-110-45	11,0	1 1/4"	1 1/4"

### Appurtenance liquid receivers

Frigo-Mec

Code	Description
47-3261-999	stopper liquid receiver 1/4 NPT
47-3261-1000	stopper liquid receiver 1/2 NPT
47-3261-FS732-A	adapter liquid receiver Bitzer for stopped

### Sae flare cap nuts

Universal

Code	Dimensions
47-3256-12	1/2"
47-3256-14	1/4"
47-3256-38	3/8"
47-3256-516	5/16"
47-3256-58	5/8"

**SAE flare  
nuts**

Castel

Code	Ø [in.]	Ø [mm]
47-3255-14-00	1/4"	6,00
47-3255-516	5/16"	7,94
47-3255-38-03	3/8"	6,00
47-3255-38-04	3/8"	8,00
47-3255-38-01	3/8"	10,00
47-3255-12-03	1/2"	10,00
47-3255-12-00	1/2"	12,00
47-3255-12-01	1/2"	12,70
47-3255-58-02	5/8"	12,00
47-3255-58-01	5/8"	16,00
47-3255-34-02	3/4"	12,00
47-3255-34-00	3/4"	18,00
47-3255-34-01	3/4"	19,05

**Twin nuts**

Castel

Code	Connection - SAE flare
47-3255-12-12-O	1/2" SAE
47-3255-14-14-O	1/4" SAE
47-3255-38-38-O	3/8" SAE
47-3255-58-58-O	5/8" SAE

**Copper  
gaskets**

Castel

Code	Connection - SAE flare
47-3255-12	1/2" SAE
47-3255-14	1/4" SAE
47-3255-34	3/4" SAE
47-3255-38	3/8" SAE
47-3255-58	5/8" SAE

**Copper  
seal caps**


Castel

Code	Connection - SAE flare
47-3255-7560-2	1/4"
47-3255-7560-3	3/8"
47-3255-7560-4	1/2"
47-3255-7560-5	5/8"
47-3255-7560-6	3/4"




**SAE flare unions 180°**


Code	International code	Connection	
		SAE - flare	NPT
47-3274-14-14	U2-4	1/4" x 1/4"	-
47-3274-38-38	U2-4	3/8" x 3/8"	-
47-3274-12-12	U2-8	1/2" x 1/2"	-
47-3274-58-58	U2-10	5/8" x 5/8"	-
47-3274-34-34	U2-12	3/4" x 3/4"	-




Code	International code	Connection	
		SAE - flare	NPT
47-3274-14-38	UR2-64	1/4" x 3/8"	-
47-3274-14-12	UR2-84	1/4" x 1/2"	-
47-3274-38-12	UR2-86	3/8" x 1/2"	-
47-3274-38-58	UR2-106	3/8" x 5/8"	-
47-3274-12-58	UR2-108	1/2" x 5/8"	-
47-3274-12-34	UR2-128	1/2" x 3/4"	-
47-3274-58-34	UR2-1210	5/8" x 3/4"	-



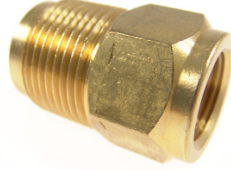
Code	International code	Connection	
		SAE - flare	NPT
47-3274-14-14N	U1-4B	1/4"	1/4"
47-3274-38-38N	U1-6C	3/8"	3/8"
47-3274-12-12N	U1-8D	1/2"	1/2"




Code	International code	Connection	
		SAE - flare	NPT
47-3274-14-18N	U1-4A	1/4"	1/8"
47-3274-38-14N	U1-6B	3/8"	1/4"
47-3274-38-12N	U1-6D	3/8"	1/2"
47-3274-12-38N	U1-8C	1/2"	3/8"




Code	International code	Connection - SAE flare		
		M	F	NPT
47-3274-14-18NF	U3-4A	1/4"	-	1/8" F
47-3274-38-14F	UR3-46	3/8"	1/4"	-
47-3274-12-14F	UR3-48	1/2"	1/2"	-
47-3274-12-38F	UR3-68	1/2"	3/8"	-
47-3274-58-12F	UR3-810	5/8"	1/2"	-
47-3274-34-12F	UR3-812	3/4"	1/2"	-
47-3274-34-58F	UR3-1012	3/4"	5/8"	-



Code	International code	Connection - SAE flare	
		M	F
47-3274-14-516F		1/4"	5/16"
47-3274-14-38F	UR3-64	1/4"	3/8"
47-3274-14-12F	UR3/84	1/4"	1/2"
47-3274-14-34F		1/4"	3/4"
47-3274-38-12F	UR3-86	3/8"	1/2"
47-3274-12-58F	UR3-108	1/2"	5/8"
47-3274-12-34F	UR3-128	1/2"	3/4"
47-3274-58-34F	UR3-1210	5/8"	3/4"




Code	International code	Connection - SAE flare	
		M	F
47-3274-14-14F		1/4"	1/4"
47-3274-38-38F		3/8"	3/8"
47-3274-12-12F		1/2"	1/2"




**SAE flare unions 90°**


Code	International code	Connection SAE - flare	
		M	F
47-32741-14	E2-4	1/4"	-
47-32741-38	E2-6	3/8"	-
47-32741-12	E2-8	1/2"	-
47-32741-58	E2-10	5/8"	-
47-32741-34	E2-12	3/4"	-



Code	International code	Connection SAE - flare		NPT
		M	F	
47-32741-14-14N	E1-4B	1/4"	-	1/4"



Code	International code	Connection SAE - flare		NPT
		M	F	
47-32741-14-18N	E1-4A	1/4"	-	1/8"







## SAE flare «T»

47-32741- without internal threads on the valve, 47-32742- with 2 internal threads on the valve


Code	International code	Connection			
		SAE - flare			NPT
		1	2	3	
47-32741-14T	T2-4	1/4"	1/4"	1/4"	
47-32741-38T	T2-6	3/8"	3/8"	3/8"	
47-32741-12T	T2-8	1/2"	1/2"	1/2"	
47-32741-58T	T2-10	5/8"	5/8"	5/8"	
47-32741-34T	T2-12	3/4"	3/4"	3/4"	




Code	International code	Connection			
		SAE - flare			NPT
		1	2	3	
47-32741-14-14-18N	T1-4A	1/4"	1/4"	-	1/8"
47-32741-14-14-14N	T1-4B	1/4"	1/4"	-	1/4"




Code	International code	Connection			
		SAE - flare			NPT
		1	2	3	
47-32741-14-14-14F	T6-4	1/4"	1/4"	1/4"	-




Code	Connection SAE - flare		NPT
	valve	F	
47-32742-14-14-14FS	1/4"	1/4"	-




Code	Connection SAE - flare		NPT
	valve	F	
47-32743-14-14-14FS1	1/4"	1/4"	-
47-32743-14-14-14FS	1/4"	1/4"	-




Code	Connection SAE - flare		NPT
	valve	F	
47-32742-14-14-18N	1/4"	-	1/8"



Code	Connection SAE - flare		ODS [mm]
	valve	F	
47-32741-14-14-18NF	1/4"		6




Code	Connection SAE - flare		NPT
	valve	F	
47-32742-14-14-06	1/4"	-	1/8"




**SAE flare cross**


Code	International code	Connection					NPT
		SAE flare					
		1	2	3	4		
47-32744-14-14-14-14	C1-4	1/4"	1/4"	1/4"	1/4"	-	




Code	Connection SAE - flare		NPT
	valve	F	
47-32744-14-14-14-18N	1/4"	-	1/8"



Code	Connection SAE - flare		NPT
	valve	F	
47-32744-14-14-14-14N	1/4"	-	1/4"



Code	Connection SAE - flare		ODS [mm]
	valve	F	
47-32744-14-14-14-06	1/4"	-	6



**Brass connectors**

Code	Description
47-3274-14-14NF	reducing union - 180° - 1/4" SAE x 1/4" NTP - F
47-3274-12F-14FL	reducing union - 180° - 1/2" ACME-F x 1/4" FL (7/16-20")-M, R134
47-3274-14-14M	reducing union - 180° - 1/4" SAE x 14 mm - M, Mastercool 82734

**CU tubes -  
package 50 m**

Frigotec

Code	Ø [mm] / wall thickness [mm]	Weight [kg/m]	Package [m]
47-327100-06	6 / 1	0,14	50
47-327100-08	8 / 1	0,20	50
47-327100-10	10 / 1	0,25	50
47-327100-12	12 / 1	0,31	50
47-327100-15	15 / 1	0,39	50
47-327100-16	16 / 1	0,42	50
47-327100-18	18 / 1	0,48	25
47-327100-22	22 / 1	0,59	25

**CU hard tubes**

Frigotec

Code	Ø [mm] / wall thickness [mm]	Length [m]	Weight [kg/m]
47-327150-08	8 / 1	5	0,20
47-327150-10	10 / 1	5	0,31
47-327150-12	12 / 1	5	0,31
47-327150-15	15 / 1	5	0,39
47-327150-16	16 / 1	5	0,42
47-327150-18	18 / 1	5	0,48
47-327150-22	22 / 1	5	0,59
47-327150-28	28 / 1	5	0,75
47-327150-35-1,5	35 / 1,5	5	1,41
47-327150-42-1,5	42 / 1,5	5	1,70
47-327150-54-2	54 / 2	5	2,91
47-327150-64-2	42 / 2	5	3,47
47-327150-76-2	76 / 2	5	4,14
47-327150-89-2	89 / 2	5	4,86
47-327150-108	108 / 2,5	5	7,37

**Pre-insulated  
CU tubes**


Code	Ø [mm] / wall thickness [mm]	Package [m]
47-327101-I06	6/1	50
47-327101-I10	10/1	50
47-327101-I12	12/1	50
47-327101-I16	16/1	50
47-327101-I18	18/1	50
47-327101-I22	22/1	25

### Pre-insulated dual CU tubes

Code	Ø [mm] / wall thickness [mm]	Package [m]
47-327101-I06-12	6-12 / 1	25
47-327101-I10-16	10-16 / 1	25

### Pre-insulated CU tubes

Code	Description	Package [m]
47-327102-12	pre-insulated tube 1/2" - 0,8 mm (12 mm)	50
47-327102-12-1	pre-insulated tube 1/2" - 1 mm (12mm)	50
47-327102-14	pre-insulated tube 1/4" - 0,8 mm (6 mm)	50
47-327102-14-1	pre-insulated tube 1/4" - 1 mm (6mm)	50
47-327102-34	pre-insulated tube 3/4" - 1 mm (19 mm)	50
47-327102-38	pre-insulated tube 3/8" - 0,8 mm (10 mm)	50
47-327102-38-1	pre-insulated tube 3/8" - 1 mm (10 mm)	50
47-327102-58	pre-insulated tube 5/8" - 1 mm (16 mm)	50
47-327102-78	pre-insulated tube 7/8" - 1,2 mm (22 mm)	25

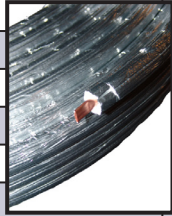


### Pre-insulated dual CU tubes

Code	Description	Package [m]
47-327102-14-38	pre-insulated dual-split tube, 1/4" x 3/8"	25
47-327102-14-12	pre-insulated dual-split tube, 1/4" x 1/2"	25
47-327102-38-58	pre-insulated dual-split tube, 3/8" x 5/8"	25

### Aluminium pre-insulated dual CU tubes

Code	Description	Package [m]
47-327103-14	aluminium pre-insulated CU tube, 1/4"-0,8 mm (6 mm)	50
47-327103-12	aluminium pre-insulated CU tube, 1/2"-0,8 mm (12 mm)	50
47-327103-38	aluminium pre-insulated CU tube, 3/8"-0,8 mm (10 mm)	50
47-327103-58	aluminium pre-insulated CU tube, 5/8"-1,0 mm (16 mm)	50
47-327103-34	aluminium pre-insulated CU tube, 3/4"-1,0 mm (19 mm)	25
47-327103-78	aluminium pre-insulated CU tube, 7/8"-1,0 mm (22 mm)	25



### Aluminium pre-insulated dual CU tubes

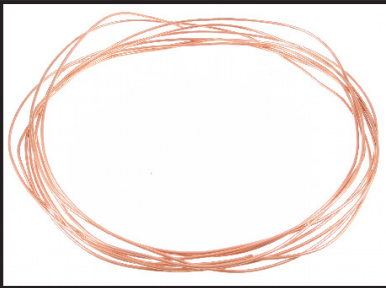
Code	Description	Package [m]
47-327103-14-58	aluminium pre-insulated CU dual tube, 1/4" - 5/8" - 1,0 mm	25
47-327103-38-58	aluminium pre-insulated CU dual tube, 3/8" - 5/8" - 1,0 mm	25

**Aluminium  
pre-insulated tubes**

Code	Description	Package [m]
47-327105-12	aluminium pre-insulated tube ALU 1/2" - 1,2 mm (12 mm)	50
47-327105-14	aluminium pre-insulated tube ALU 1/4" - 1,0 mm (6 mm)	50
47-327105-38	aluminium pre-insulated tube ALU 3/8" - 1,0 mm (10 mm)	50
47-327105-58	aluminium pre-insulated tube ALU 5/8" - 1,5 mm (16 mm)	50

**CU capillaries**

Code	Internal Ø - external Ø [mm]
47-3271100-06	0,6 - 2
47-3271100-07	0,7 - 2
47-3271100-08	0,8 - 2
47-3271100-09	0,9 - 2
47-3271100-10	1 - 2,2
47-3271100-11	1,1 - 2,5
47-3271100-12	1,1 - 2,6
47-3271100-125	1,25 - 2,6
47-3271100-14	1,4 - 2,7
47-3271100-15	1,5 - 2,7
47-3271100-16	1,6 - 3
47-3271100-18	1,8 - 3
47-3271100-20	2 - 3,5
47-3271100-22	2,2 - 3,9
47-3271100-23	2,3 - 3,9
47-3271100-25	2,5 - 4
47-3271100-30	3 - 4,8
<b>sale in kg</b>	
47-3271100-31	1 - 3

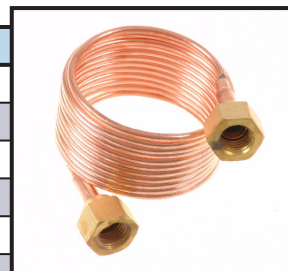

**CU capillaries**
**Refco**

Code	Description	Length [m]
47-32TC-26	capillary REFCO TC-26, internal Ø 0,7 mm x 2,0 m	30
47-32TC-31	capillary REFCO TC-31, internal Ø 0,8 mm x 2,0 mm	30
47-32TC-42	capillary REFCO TC-42, internal Ø 1,0 mm x 2,0 m	30
47-32TC-44	capillary REFCO TC-44, internal Ø 1,1 mm x 2,3 mm	30
47-32TC-49	capillary REFCO TC-49, internal Ø 1,25 mm x 2,45 mm	30
47-32TC-55	capillary REFCO TC-55, internal Ø 1,4 mm x 2,6 mm	30
47-32TC-59	capillary REFCO TC-59, internal Ø 1,5 mm x 2,6 mm	30
47-32TC-64	capillary REFCO TC-64, internal Ø 1,6 mm x 2,8 mm	30
47-32TC-70	capillary REFCO TC-70, internal Ø 1,8 mm x 3,0 mm	30
47-32TC-80	capillary REFCO TC-80, internal Ø 2 mm x 3,0 mm	30

**Capillaries with nuts**

DE-NA

Code	Description
47-329290-09	capillary 1 m with nuts, without depressor
47-329290-10	capillary 1,5 m with nuts, without depressor
47-329290-11	capillary 2 m with nuts, without depressor
47-329290-40	capillary 1 m x 2,5 mm with nuts, without depressor
47-329290-41	capillary 1,5 m x 2,5 mm with nuts, without depressor
47-329290-42	capillary 1,0 m x 2,5 mm with nuts, without depressor



Code	Description
47-329290-21	capillary 1 m x 1,067 mm with nuts and depressor
47-329290-22	capillary 1,5 m x 1,067 mm with nuts and depressor
47-329290-23	capillary 2 m x 1,067 mm with nuts and depressor
47-329290-24	capillary 3 m x 1,067 mm with nuts and depressor
47-329290-43	capillary 1,5 m x 2,5 mm with nuts and depressor
47-329290-44	capillary 2,0 m x 2,5 mm with nuts and depressor
47-329290-45	capillary 3,0 m x 2,5 mm with nuts and depressor

**Capillaries with nuts and depressors**

Honeywell

Code	Length [m]
47-329290-29	0,6
47-329290-30	1,0
47-329290-31	1,5
47-329290-32	2,0
47-329290-33	3,0

**Thermoplastic capillaries**


Gomax

Code	Description
47-329291-00	thermoplastic capillary hose Gomax DN2, orange, (coil of 50 m)
47-329291-01	thermoplastic capillary hose Gomax DN2, black, (coil of 50 m)
47-329291-02	straight fitting Gomax, DN2, 1/4" SAE F, (set of 10 pcs)
47-329291-03	elbow fitting Gomax 90°, DN2, 1/4" SAE F, (set of 10 pcs)
47-329291-04	„T“ fitting Gomax, DN2, 1/4" SAE, (set of 10 pcs)
47-329291-06	„T“ fitting Gomax, DN2, 1/4" SAE, (set of 10 pcs)
47-329291-07	Schrader valve opener Gomax, (set of 50 pcs)

**Fittings to be pressed  
for capillary tube 2 x 5,9**

Wigam

Code	Type	Description
47-329290-03	WCG 210/90	kit of 90° fittings with 1 nut
47-329290-05	WCG 210 T	kit of „T“ fittings with 3 nuts


**Pipe insulation**

K-FLEX

Material based on synthetic rubber.

The coefficient of diffusion 7000, thermal conductivity = 1,036W / m. For use from -40 ° C to +150 ° C, black color.

Insulation is delivered in 2 m length of tube .

Code	Dimension (wall thickness x Ø) [mm]	Length of tube [m]
47-327700-6-6	6 x 6	2
47-327700-6-8	6 x 8	2
47-327700-6-10	6 x 10	2
47-327700-6-12	6 x 12	2
47-327700-6-15	6 x 15	2
47-327700-6-18	6 x 18	2
47-327700-6-22	6 x 22	2
47-327700-6-28	6 x 28	2
47-327700-6-35	6 x 35	2
47-327700-9-6	9 x 6	2
47-327700-9-8	9 x 8	2
47-327700-9-10	9 x 10	2
47-327700-9-12	9 x 12	2
47-327700-9-15	9 x 15	2
47-327700-9-18	9 x 18	2
47-327700-9-22	9 x 22	2
47-327700-9-28	9 x 28	2
47-327700-9-35	9 x 35	2
47-327700-9-42	9 x 42	2
47-327700-9-54	9x 54	2
47-327700-9-60	9 x 60	2
47-327700-9-64	9 x 64	2
47-327700-9-76	9 x 76	2
47-327700-13-10	13 x 10	2
47-327700-13-12	13 x 12	2
47-327700-13-15	13 x 15, 13 x 16	2
47-327700-13-18	13 x 18	2
47-327700-13-22	13 x 22	2
47-327700-13-28	13 x 28	2
47-327700-13-35	13 x 35	2
47-327700-13-42	13 x 42	2
47-327700-13-54	13 x 54	2
47-327700-13-64	13 x 64	2
47-327700-13-76	13 x 76	2

## Pipe insulation

## K-FLEX

Code	Dimension (wall thickness x Ø) [mm]	Length of tube [m]
47-327700-13-89	13 x 89	2
47-327700-13-108	13 x 108	2
47-327700-19-12	19 x 12	2
47-327700-19-15	19 x 15	2
47-327700-19-18	19 x 18	2
47-327700-19-22	19 x 22	2
47-327700-19-28	19 x 28	2
47-327700-19-35	19 x 35	2
47-327700-19-42	19 x 42	2
47-327700-19-54	19 x 54	2
47-327700-19-64	19 x 64	2
47-327700-19-76	19 x 76	2
47-327700-19-89	19 x 89	2
47-327700-19-108	19 x 108	2
47-327700-32-16	47-32x 16	2
47-327700-32-18	47-32x 18	2
47-327700-32-22	47-32x 22	2
47-327700-32-28	47-32x 28	2
47-327700-32-35	47-32x 35	2
47-327700-32-42	47-32x 42	2
47-327700-32-54	47-32x 54	2
47-327700-32-64	47-32x 64	2
47-327700-32-76	47-32x 76	2
47-327700-32-89	47-32x 89	2

Pipe insulation -  
«in coil»

## K-FLEX

We sell only whole packing

Code	Dimension (wall thickness x Ø) [mm]	Package / [m]
47-327704-06-06	6 x 6	50
47-327704-06-08	6 x 8	48
47-327704-06-10	6 x 10	46
47-327704-06-12	6 x 12	40
47-327704-06-18	6 x 18	30
47-327704-06-22	6 x 22	23
47-327704-06-28	6 x 28	20





Code	Dimension (wall thickness x Ø) [mm]	Package / [m]
47-327705-09-06	9 x 6	40
47-327705-09-08	9 x 8	37
47-327705-09-10	9 x 10	34
47-327705-09-12	9 x 12	31
47-327705-09-15	9 x 15 - 16	27
47-327705-09-18	9 x 18	23
47-327705-09-22	9 x 22	19
47-327705-09-28	9 x 28	14

Code	Dimension (wall thickness x Ø) [mm]	Package / [m]
47-327706-13-06	13 x 6	26
47-327706-13-08	13 x 8	26
47-327706-13-10	13 x 10	23
47-327706-13-12	13 x 12	18
47-327706-13-15	13 x 15	17
47-327706-13-18	13 x 18	15
47-327706-13-22	13 x 22	14
47-327706-13-28	13 x 28	10

**Insulation surface**
**K-FLEX**

Code	Width 1 [m]	
	wall thickness [mm]	package / [m]
47-327710-06	6	30
47-327710-10	10	20
47-327710-13	13	14
47-327710-19	19	10
47-327710-25	25	8
47-327710-32	32	6
47-327710-50	50	6



Code	Width 1,5 [m]	
	wall thickness [mm]	package / [m]
47-327715-13	13	14
47-327715-19	19	10

**Insulation surface - adhesive**
**K-FLEX**

Code	Width 1 [m]	
	wall thickness [mm]	package / [m]
47-327720-10	10	20
47-327720-13	13	14
47-327720-19	19	10
47-327720-32	32	6

**Insulation surface -  
adhesive H-DUCK**

K-FLEX

Code	Width 1,5 [m]	
	wall thickness [mm]	package / [m]
47-327740-12M	12	22,5

**Insulating tape**

Code	Description
47-327700-01	3 x 50 mm x 10 m rubber, K-Flex
47-327700-02	50 mm x 50 m Aluminium, K-Flex
47-327700-03	75 mm x 50 m Aluminium, K-Flex
47-327700-04	100 mm x 50 m Aluminium, K-Flex

**Insulating sleeve**

K-FLEX

Code	Wall thickness / tube Ø [mm]
47-327155-13-18	13 / 18
47-327155-13-22	13 / 22
47-327155-13-28	13 / 28
47-327155-13-35	13 / 35
47-327155-13-42	13 / 42
47-327155-13-54	13 / 54
47-327155-13-64	13 / 64
47-327155-13-76	13 / 76
47-327155-13-89	13 / 89
47-327155-13-108	13 / 108
47-327155-19-18	19 / 18
47-327155-19-22	19 / 22
47-327155-19-28	19 / 28
47-327155-19-35	19 / 35
47-327155-19-42	19 / 42
47-327155-19-54	19 / 54
47-327155-19-64	19 / 64
47-327155-19-76	19 / 76
47-327155-19-89	19 / 89
47-327155-19-108	19 / 108

**Insulation  
accessories**

K-FLEX

Code	Description	Package
47-327750-02	adhesive for insulation K-Flex	0,2 l
47-327750-05	adhesive for insulation K-Flex	0,5 l

Code	Description	Package
47-327750-08	adhesive for insulation K-Flex	0,8 l
47-327750-28	adhesive for insulation K-Flex	2,8 l
47-327760-10	cleaner	1 l
47-327770-25	protective coating	2,5 l
47-327780-00	aluminium adhesive tape - smooth	10 m
47-327780-01	aluminium adhesive tape - square pattern	10 m



### Vibration absorbers

Code	Inner ø [mm]	Length [mm]
47-327800-08	8	220
47-327800-10	10	210
47-327800-12	12	230
47-327800-16	16	245
47-327800-18	18	255
47-327800-22	22	290
47-327800-28	28	330
47-327800-35	35	375
47-327800-42	42	400
47-327800-54	54	510
47-327800-64	64	615
47-327800-67	67	690
47-327800-76	76	690
47-327800-89	89	810
47-327800-108	108	710
47-327801-16	16	1100

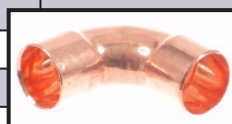


### Fittings

Code	Description	Dimensions [mm]
47-32716-5001-006	CU bend 90° male/female	6
47-32716-5001-008	CU bend 90° male/female	8
47-32716-5001-010	CU bend 90° male/female	10
47-32716-5001-012	CU bend 90° male/female	12
47-32716-5001-015	CU bend 90° male/female	15
47-32716-5001-016	CU bend 90° male/female	16
47-32716-5001-018	CU bend 90° male/female	18
47-32716-5001-022	CU bend 90° male/female	22
47-32716-5001-028	CU bend 90° male/female	28
47-32716-5001-035	CU bend 90° male/female	35
47-32716-5001-042	CU bend 90° male/female	42
47-32716-5001-054	CU bend 90° male/female	54
47-32716-5001-064	CU bend 90° male/female	64
47-32716-5001-076	CU bend 90° male/female	76
47-32716-5001-089	CU bend 90° male/female	89
47-32716-5001-108	CU bend 90° male/female	108



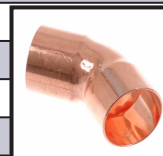
Code	Description	Dimensions [mm]
47-32716-5002-006	Cu bend 90° female/female	6
47-32716-5002-008	Cu bend 90° female/female	8
47-32716-5002-010	Cu bend 90° female/female	10
47-32716-5002-012	Cu bend 90° female/female	12
47-32716-5002-015	Cu bend 90° female/female	15
47-32716-5002-016	Cu bend 90° female/female	16
47-32716-5002-018	Cu bend 90° female/female	18
47-32716-5002-022	Cu bend 90° female/female	22
47-32716-5002-028	Cu bend 90° female/female	28
47-32716-5002-035	Cu bend 90° female/female	35
47-32716-5002-042	Cu bend 90° female/female	42
47-32716-5002-054	Cu bend 90° female/female	54
47-32716-5002-064	Cu bend 90° female/female	64
47-32716-5002-076	Cu bend 90° female/female	76
47-32716-5002-089	Cu bend 90° female/female	89
47-32716-5002-108	Cu bend 90° female/female	108



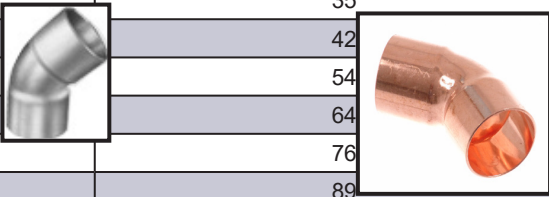
Code	Description	Dimensions [mm]
47-32716-5040-008	Cu bend 45° male/female	8
47-32716-5040-010	Cu bend 45° male/female	10
47-32716-5040-012	Cu bend 45° male/female	12
47-32716-5040-015	Cu bend 45° male/female	15
47-32716-5040-016	Cu bend 45° male/female	16
47-32716-5040-018	Cu bend 45° male/female	18
47-32716-5040-022	Cu bend 45° male/female	22
47-32716-5040-028	Cu bend 45° male/female	28
47-32716-5040-035	Cu bend 45° male/female	35
47-32716-5040-042	Cu bend 45° male/female	42
47-32716-5040-054	Cu bend 45° male/female	54
47-32716-5040-064	Cu bend 45° male/female	64
47-32716-5040-076	Cu bend 45° male/female	76
47-32716-5040-089	Cu bend 45° male/female	89
47-32716-5040-108	Cu bend 45° male/female	108



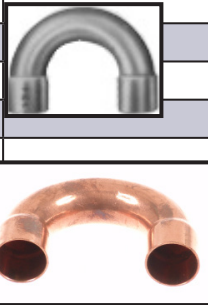
Code	Description	Dimensions [mm]
47-32716-5041-006	Cu bend 45° female/female	8
47-32716-5041-008	Cu bend 45° female/female	8
47-32716-5041-010	Cu bend 45° female/female	10
47-32716-5041-012	Cu bend 45° female/female	12
47-32716-5041-015	Cu bend 45° female/female	15
47-32716-5041-016	Cu bend 45° female/female	16
47-32716-5041-018	Cu bend 45° female/female	18
47-32716-5041-022	Cu bend 45° female/female	22
47-32716-5041-028	Cu bend 45° female/female	28




Code	Description	Dimensions [mm]
47-32716-5041-035	Cu bend 45° female/female	35
47-32716-5041-042	Cu bend 45° female/female	42
47-32716-5041-054	Cu bend 45° female/female	54
47-32716-5041-064	Cu bend 45° female/female	64
47-32716-5041-076	Cu bend 45° female/female	76
47-32716-5041-089	Cu bend 45° female/female	89
47-32716-5041-108	Cu bend 45° female/female	108



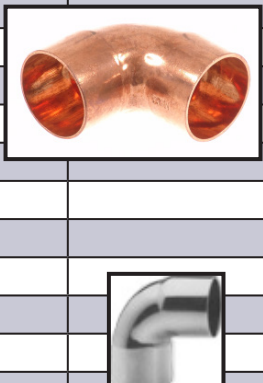
Code	Description	Dimensions [mm]
47-32716-5060-010	Cu bend 180° female/female	10
47-32716-5060-012	Cu bend 180° female/female	12
47-32716-5060-015	Cu bend 180° female/female	15
47-32716-5060-016	Cu bend 180° female/female	16
47-32716-5060-018	Cu bend 180° female/female	18
47-32716-5060-022	Cu bend 180° female/female	22
47-32716-5060-028	Cu bend 180° female/female	28
47-32716-5060-035	Cu bend 180° female/female	35
47-32716-5060-042	Cu bend 180° female/female	42
47-32716-5060-054	Cu bend 180° female/female	54



Code	Description	Dimensions [mm]
47-32716-5085-012	Cu full crossover female/female	12
47-32716-5085-015	Cu full crossover female/female	15
47-32716-5085-016	Cu full crossover female/female	16
47-32716-5085-018	Cu full crossover female/female	18
47-32716-5085-022	Cu full crossover female/female	22



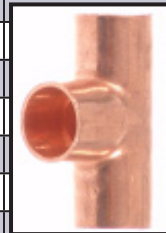
Code	Description	Dimensions [mm]
47-32716-5090-010	Cu elbow 90° female/female	10
47-32716-5090-012	Cu elbow 90° female/female	12
47-32716-5090-015	Cu elbow 90° female/female	15
47-32716-5090-016	Cu elbow 90° female/female	16
47-32716-5090-018	Cu elbow 90° female/female	18
47-32716-5090-022	Cu elbow 90° female/female	22
47-32716-5090-028	Cu elbow 90° female/female	28
47-32716-5090-035	Cu elbow 90° female/female	35
47-32716-5090-042	Cu elbow 90° female/female	42
47-32716-5090-054	Cu elbow 90° female/female	54
47-32716-5090-064	Cu elbow 90° female/female	64
47-32716-5090-076	Cu elbow 90° female/female	76
47-32716-5090-089	Cu elbow 90° female/female	89
47-32716-5090-108	Cu elbow 90° female/female	108



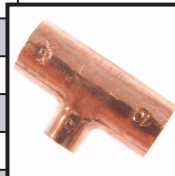
Code	Description	Dimensions [mm]
47-32716-5092-010	Cu elbow 90° male/female	10
47-32716-5092-012	Cu elbow 90° male/female	12
47-32716-5092-015	Cu elbow 90° male/female	15
47-32716-5092-016	Cu elbow 90° male/female	16
47-32716-5092-018	Cu elbow 90° male/female	18
47-32716-5092-022	Cu elbow 90° male/female	22
47-32716-5092-028	Cu elbow 90° male/female	28
47-32716-5092-035	Cu elbow 90° male/female	35
47-32716-5092-042	Cu elbow 90° male/female	42
47-32716-5092-054	Cu elbow 90° male/female	54



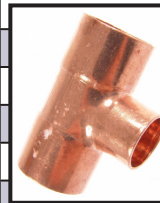
Code	Description	Dimensions [mm]
47-32716-5130-006	Cu „T“ female/female/female	6
47-32716-5130-008	Cu „T“ female/female/female	8
47-32716-5130-010	Cu „T“ female/female/female	10
47-32716-5130-012	Cu „T“ female/female/female	12
47-32716-5130-015	Cu „T“ female/female/female	15
47-32716-5130-016	Cu „T“ female/female/female	16
47-32716-5130-018	Cu „T“ female/female/female	18
47-32716-5130-022	Cu „T“ female/female/female	22
47-32716-5130-028	Cu „T“ female/female/female	28
47-32716-5130-035	Cu „T“ female/female/female	35
47-32716-5130-042	Cu „T“ female/female/female	42
47-32716-5130-054	Cu „T“ female/female/female	54
47-32716-5130-064	Cu „T“ female/female/female	64
47-32716-5130-076	Cu „T“ female/female/female	76
47-32716-5130-089	Cu „T“ female/female/female	89
47-32716-5130-108	Cu „T“ female/female/female	108



Code	Description	Dimensions [mm]
47-32716-51301-060806	Cu „T“ reducing female/female/female	6-8-6
47-32716-51301-060106	Cu „T“ reducing female/female/female	6-10-6
47-32716-51301-080606	Cu „T“ reducing female/female/female	8-6-6
47-32716-51301-080608	Cu „T“ reducing female/female/female	8-6-8
47-32716-51301-081008	Cu „T“ reducing female/female/female	8-10-8
47-32716-51301-100610	Cu „T“ reducing female/female/female	10-6-10
47-32716-51301-100808	Cu „T“ reducing female/female/female	10-8-8
47-32716-51301-100810	Cu „T“ reducing female/female/female	10-8-10
47-32716-51301-101008	Cu „T“ reducing female/female/female	10-10-8
47-32716-51301-101210	Cu „T“ reducing female/female/female	10-12-10
47-32716-51301-120612	Cu „T“ reducing female/female/female	12-6-12
47-32716-51301-121012	Cu „T“ reducing female/female/female	12-10-12
47-32716-51301-121512	Cu „T“ reducing female/female/female	12-15-12
47-32716-51301-121812	Cu „T“ reducing female/female/female	12-18-12
47-32716-51301-151212	Cu „T“ reducing female/female/female	15-12-12



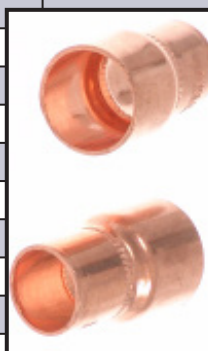
Code	Description	Dimensions [mm]
47-32716-51301-151215	Cu „T“ reducing female/female/female	15-12-15
47-32716-51301-151512	Cu „T“ reducing female/female/female	15-15-12
47-32716-51301-151815	Cu „T“ reducing female/female/female	15-18-15
47-32716-51301-161016	Cu „T“ reducing female/female/female	16-10-16
47-32716-51301-161212	Cu „T“ reducing female/female/female	16-12-12
47-32716-51301-161216	Cu „T“ reducing female/female/female	16-12-16
47-32716-51301-161816	Cu „T“ reducing female/female/female	16-18-16
47-32716-51301-181218	Cu „T“ reducing female/female/female	18-12-18
47-32716-51301-181515	Cu „T“ reducing female/female/female	18-15-15
47-32716-51301-181518	Cu „T“ reducing female/female/female	18-15-18
47-32716-51301-181618	Cu „T“ reducing female/female/female	18-16-18
47-32716-51301-181815	Cu „T“ reducing female/female/female	18-18-15
47-32716-51301-182218	Cu „T“ reducing female/female/female	18-22-18
47-32716-51301-220622	Cu „T“ reducing female/female/female	22-6-22
47-32716-51301-221222	Cu „T“ reducing female/female/female	22-12-22
47-32716-51301-221515	Cu „T“ reducing female/female/female	22-15-15
47-32716-51301-221522	Cu „T“ reducing female/female/female	22-15-22
47-32716-51301-221622	Cu „T“ reducing female/female/female	22-16-22
47-32716-51301-221818	Cu „T“ reducing female/female/female	22-18-18
47-32716-51301-221822	Cu „T“ reducing female/female/female	22-18-22
47-32716-51301-222215	Cu „T“ reducing female/female/female	22-22-15
47-32716-51301-222218	Cu „T“ reducing female/female/female	22-22-18
47-32716-51301-222822	Cu „T“ reducing female/female/female	22-28-22
47-32716-51301-281228	Cu „T“ reducing female/female/female	28-12-28
47-32716-51301-281528	Cu „T“ reducing female/female/female	28-15-28
47-32716-51301-281628	Cu „T“ reducing female/female/female	28-16-28
47-32716-51301-281828	Cu „T“ reducing female/female/female	28-18-28
47-32716-51301-282222	Cu „T“ reducing female/female/female	28-22-22
47-32716-51301-282228	Cu „T“ reducing female/female/female	28-22-28
47-32716-51301-282822	Cu „T“ reducing female/female/female	28-28-22
47-32716-51301-283528	Cu „T“ reducing female/female/female	28-35-28
47-32716-51301-351535	Cu „T“ reducing female/female/female	35-15-35
47-32716-51301-351835	Cu „T“ reducing female/female/female	35-18-35
47-32716-51301-352235	Cu „T“ reducing female/female/female	35-22-35
47-32716-51301-352835	Cu „T“ reducing female/female/female	35-28-35
47-32716-51301-422242	Cu „T“ reducing female/female/female	42-22-42
47-32716-51301-422842	Cu „T“ reducing female/female/female	42-28-42
47-32716-51301-423542	Cu „T“ reducing female/female/female	42-35-42
47-32716-51301-542254	Cu „T“ reducing female/female/female	54-22-54
47-32716-51301-542854	Cu „T“ reducing female/female/female	54-28-54
47-32716-51301-543554	Cu „T“ reducing female/female/female	54-35-54
47-32716-51301-544254	Cu „T“ reducing female/female/female	54-42-54
47-32716-51301-643564	Cu „T“ reducing female/female/female	64-35-64
47-32716-51301-644264	Cu „T“ reducing female/female/female	64-42-64
47-32716-51301-645464	Cu „T“ reducing female/female/female	64-54-64
47-32716-51301-763576	Cu „T“ reducing female/female/female	76-35-76



Code	Description	Dimensions [mm]
47-32716-51301-764276	Cu „T“ reducing female/female/female	76-42-76
47-32716-51301-765476	Cu „T“ reducing female/female/female	76-54-76
47-32716-51301-895489	Cu „T“ reducing female/female/female	89-54-89
47-32716-51301-896489	Cu „T“ reducing female/female/female	89-64-89
47-32716-51301-897689	Cu „T“ reducing female/female/female	89-76-89
47-32716-51301-10854108	Cu „T“ reducing female/female/female	108-54-108
47-32716-51301-10864108	Cu „T“ reducing female/female/female	108-64-108
47-32716-51301-10876108	Cu „T“ reducing female/female/female	108-76-108
47-32716-51301-10889108	Cu „T“ reducing female/female/female	108-89-108





Code	Description	Dimensions [mm]
47-32716-5240-1006	Cu fitting reducer female/female	10-6
47-32716-5240-1008	Cu fitting reducer female/female	10-8
47-32716-5240-1210	Cu fitting reducer female/female	12-10
47-32716-5240-1510	Cu fitting reducer female/female	15-10
47-32716-5240-1512	Cu fitting reducer female/female	15-12
47-32716-5240-1610	Cu fitting reducer female/female	16-10
47-32716-5240-1612	Cu fitting reducer female/female	16-12
47-32716-5240-1615	Cu fitting reducer female/female	16-15
47-32716-5240-1810	Cu fitting reducer female/female	18-10
47-32716-5240-1812	Cu fitting reducer female/female	18-12
47-32716-5240-1815	Cu fitting reducer female/female	18-15
47-32716-5240-1816	Cu fitting reducer female/female	18-16
47-32716-5240-2212	Cu fitting reducer female/female	22-12
47-32716-5240-2215	Cu fitting reducer female/female	22-15
47-32716-5240-2216	Cu fitting reducer female/female	22-16
47-32716-5240-2218	Cu fitting reducer female/female	22-18
47-32716-5240-2815	Cu fitting reducer female/female	28-15
47-32716-5240-2816	Cu fitting reducer female/female	28-16
47-32716-5240-2818	Cu fitting reducer female/female	28-18
47-32716-5240-2822	Cu fitting reducer female/female	28-22
47-32716-5240-3515	Cu fitting reducer female/female	35-15
47-32716-5240-3518	Cu fitting reducer female/female	35-18
47-32716-5240-3522	Cu fitting reducer female/female	35-22
47-32716-5240-3528	Cu fitting reducer female/female	35-28
47-32716-5240-4222	Cu fitting reducer female/female	42-22
47-32716-5240-4228	Cu fitting reducer female/female	42-28
47-32716-5240-4235	Cu fitting reducer female/female	42-35
47-32716-5240-5422	Cu fitting reducer female/female	54-22
47-32716-5240-5428	Cu fitting reducer female/female	54-28
47-32716-5240-5435	Cu fitting reducer female/female	54-35
47-32716-5240-5442	Cu fitting reducer female/female	54-42
47-32716-5240-6435	Cu fitting reducer female/female	64-35
47-32716-5240-6442	Cu fitting reducer female/female	64-42
47-32716-5240-6454	Cu fitting reducer female/female	64-54
47-32716-5240-7642	Cu fitting reducer female/female	76-42





Code	Description	Dimensions [mm]
47-32716-5240-7654	Cu fitting reducer female/female	76-54
47-32716-5240-7664	Cu fitting reducer female/female	76-64
47-32716-5240-8976	Cu fitting reducer female/female	89-76
47-32716-5240-10876	Cu fitting reducer female/female	108-76
47-32716-5240-10889	Cu fitting reducer female/female	108-89

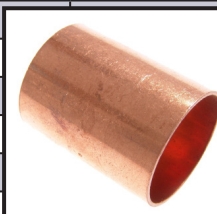
Code	Description	Dimensions [mm]
47-32716-5243-0806	Cu fitting reducer male/female	8-6
47-32716-5243-1006	Cu fitting reducer male/female	10-6
47-32716-5243-1008	Cu fitting reducer male/female	10-8
47-32716-5243-1206	Cu fitting reducer male/female	12-6
47-32716-5243-1208	Cu fitting reducer male/female	12-8
47-32716-5243-1210	Cu fitting reducer male/female	12-10
47-32716-5243-1510	Cu fitting reducer male/female	15-10
47-32716-5243-1512	Cu fitting reducer male/female	15-12
47-32716-5243-1610	Cu fitting reducer male/female	16-10
47-32716-5243-1612	Cu fitting reducer male/female	16-12
47-32716-5243-1810	Cu fitting reducer male/female	18-10
47-32716-5243-1812	Cu fitting reducer male/female	18-12
47-32716-5243-1815	Cu fitting reducer male/female	18-15
47-32716-5243-1816	Cu fitting reducer male/female	18-16
47-32716-5243-2210	Cu fitting reducer male/female	22-10
47-32716-5243-2212	Cu fitting reducer male/female	22-12
47-32716-5243-2215	Cu fitting reducer male/female	22-15
47-32716-5243-2216	Cu fitting reducer male/female	22-16
47-32716-5243-2218	Cu fitting reducer male/female	22-18
47-32716-5243-2812	Cu fitting reducer male/female	28-12
47-32716-5243-2815	Cu fitting reducer male/female	28-15
47-32716-5243-2816	Cu fitting reducer male/female	28-16
47-32716-5243-2818	Cu fitting reducer male/female	28-18
47-32716-5243-2822	Cu fitting reducer male/female	28-22
47-32716-5243-3515	Cu fitting reducer male/female	35-15
47-32716-5243-3518	Cu fitting reducer male/female	35-18
47-32716-5243-3522	Cu fitting reducer male/female	35-22
47-32716-5243-3528	Cu fitting reducer male/female	35-28
47-32716-5243-4228	Cu fitting reducer male/female	42-28
47-32716-5243-4235	Cu fitting reducer male/female	42-35
47-32716-5243-5422	Cu fitting reducer male/female	54-22
47-32716-5243-5428	Cu fitting reducer male/female	54-28
47-32716-5243-5435	Cu fitting reducer male/female	54-35
47-32716-5243-5442	Cu fitting reducer male/female	54-42
47-32716-5243-6435	Cu fitting reducer male/female	64-35
47-32716-5243-6442	Cu fitting reducer male/female	64-42
47-32716-5243-6454	Cu fitting reducer male/female	64-54




Code	Description	Dimensions [mm]
47-32716-5243-7642	Cu fitting reducer male/female	76-42
47-32716-5243-7654	Cu fitting reducer male/female	76-54
47-32716-5243-7664	Cu fitting reducer male/female	76-64
47-32716-5243-8954	Cu fitting reducer male/female	89-54
47-32716-5243-8964	Cu fitting reducer male/female	89-64
47-32716-5243-8976	Cu fitting reducer male/female	89-76
47-32716-5243-10864	Cu fitting reducer male/female	108-64
47-32716-5243-10876	Cu fitting reducer male/female	108-76
47-32716-5243-10889	Cu fitting reducer male/female	108-89



Code	Description	Dimensions [mm]
47-32716-5270-006	Cu coupling female/female	6
47-32716-5270-008	Cu coupling female/female	8
47-32716-5270-010	Cu coupling female/female	10
47-32716-5270-012	Cu coupling female/female	12
47-32716-5270-015	Cu coupling female/female	15
47-32716-5270-016	Cu coupling female/female	16
47-32716-5270-018	Cu coupling female/female	18
47-32716-5270-022	Cu coupling female/female	22
47-32716-5270-028	Cu coupling female/female	28
47-32716-5270-035	Cu coupling female/female	35
47-32716-5270-042	Cu coupling female/female	42
47-32716-5270-054	Cu coupling female/female	54
47-32716-5270-064	Cu coupling female/female	64
47-32716-5270-076	Cu coupling female/female	76
47-32716-5270-089	Cu coupling female/female	89
47-32716-5270-108	Cu coupling female/female	108



Code	Description	Dimensions [mm]
47-32716-5301-008	Cu cap	8
47-32716-5301-010	Cu cap	10
47-32716-5301-012	Cu cap	12
47-32716-5301-015	Cu cap	15
47-32716-5301-016	Cu cap	16
47-32716-5301-018	Cu cap	18
47-32716-5301-022	Cu cap	22
47-32716-5301-028	Cu cap	28
47-32716-5301-035	Cu cap	35
47-32716-5301-042	Cu cap	42
47-32716-5301-054	Cu cap	54
47-32716-5301-064	Cu cap	64
47-32716-5301-076	Cu cap	76
47-32716-5301-089	Cu cap	89
47-32716-5301-108	Cu cap	108



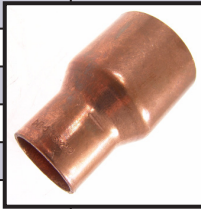
**Fittings K65**

Code	Description	Dimensions
47-32716-K5001-010	bend K65 90° male/female	3/8"
47-32716-K5001-012	bend K65 90° male/female	1/2"
47-32716-K5001-016	bend K65 90° male/female	5/8"
47-32716-K5001-019	bend K65 90° male/female	3/4"
47-32716-K5001-022	bend K65 90° male/female	7/8"
47-32716-K5001-028	bend K65 90° male/female	1 1/8"
47-32716-K5001-035	bend K65 90° male/female	1 3/8"
47-32716-K5001-042	bend K65 90° male/female	1 5/8"
47-32716-K5002-010	bend K65 90° female/female	3/8"
47-32716-K5002-012	bend K65 90° female/female	1/2"
47-32716-K5002-016	bend K65 90° female/female	5/8"
47-32716-K5002-019	bend K65 90° female/female	3/4"
47-32716-K5002-022	bend K65 90° female/female	7/8"
47-32716-K5002-028	bend K65 90° female/female	1 1/8"
47-32716-K5002-035	bend K65 90° female/female	1 3/8"
47-32716-K5002-042	bend K65 90° female/female	1 5/8"
47-32716-K5040-019	bend K65 45° male/female	3/4"
47-32716-K5040-022	bend K65 45° male/female	7/8"
47-32716-K5040-028	bend K65 45° male/female	1 1/8"
47-32716-K5040-035	bend K65 45° male/female	1 3/8"
47-32716-K5040-042	bend K65 45° male/female	1 5/8"
47-32716-K5041-010	bend K65 45° female/female	3/8"
47-32716-K5041-012	bend K65 45° female/female	1/2"
47-32716-K5041-016	bend K65 45° female/female	5/8"
47-32716-K5041-019	bend K65 45° female/female	3/4"
47-32716-K5041-022	bend K65 45° female/female	7/8"
47-32716-K5041-028	bend K65 45° female/female	1 1/8"
47-32716-K5041-035	bend K65 45° female/female	1 3/8"
47-32716-K5041-042	bend K65 45° female/female	1 5/8"

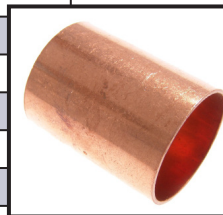
Code	Description	Dimensions
47-32716-K51301-101010	„T“ K65, male/male/male	3/8" - 3/8" - 3/8"
47-32716-K51301-121010	„T“ K65, male/male/male	1/2" - 3/8" - 3/8"
47-32716-K51301-121210	„T“ K65, male/male/male	1/2" - 1/2" - 3/8"
47-32716-K51301-121212	„T“ K65, male/male/male	1/2" - 1/2" - 1/2"
47-32716-K51301-161212	„T“ K65, male/male/male	5/8" - 1/2" - 1/2"
47-32716-K51301-161610	„T“ K65, male/male/male	5/8" - 5/8" - 3/8"
47-32716-K51301-161612	„T“ K65, male/male/male	5/8" - 5/8" - 1/2"
47-32716-K51301-161616	„T“ K65, male/male/male	5/8" - 5/8" - 5/8"
47-32716-K51301-191916	„T“ K65, male/male/male	3/4" - 3/4" - 5/8"
47-32716-K51301-191919	„T“ K65, male/male/male	3/4" - 3/4" - 3/4"
47-32716-K51301-222219	„T“ K65, male/male/male	7/8" - 7/8" - 3/4"
47-32716-K51301-222222	„T“ K65, male/male/male	7/8" - 7/8" - 7/8"
47-32716-K51301-282212	„T“ K65, male/male/male	1 1/8" - 7/8" - 1/2"
47-32716-K51301-282822	„T“ K65, male/male/male	1 1/8" - 1 1/8" - 7/8"

Code	Description	Dimensions
47-32716-K51301-282828	„T“ K65, male/male/male	1 1/8" - 1 1/8" - 1 1/8"
47-32716-K51301-353522	„T“ K65, male/male/male	1 3/8" - 1 3/8" 7/8"
47-32716-K51301-353535	„T“ K65, male/male/male	1 3/8" - 1 3/8" - 1 3/8"
47-32716-K51301-424235	„T“ K65, male/male/male	1 5/8" - 1 5/8" - 1 3/8"
47-32716-K51301-424242	„T“ K65, male/male/male	1 5/8" - 1 5/8" - 1 5/8"

Code	Description	Dimensions
47-32716-K5243-012010	fitting reducer K65, female/male	1/2" - 3/8"
47-32716-K5243-012012	fitting reducer K65, female/male	1/2" - 12 mm
47-32716-K5243-016010	fitting reducer K65, female/male	5/8" - 3/8"
47-32716-K5243-016012	fitting reducer K65, female/male	5/8" - 1/2"
47-32716-K5243-016015	fitting reducer K65, female/male	5/8" - 15 mm
47-32716-K5243-019010	fitting reducer K65, female/male	3/4" - 3/8"
47-32716-K5243-019012	fitting reducer K65, female/male	3/4" - 1/2"
47-32716-K5243-019016	fitting reducer K65, female/male	3/4" - 5/8"
47-32716-K5243-019018	fitting reducer K65, female/male	3/4" - 18 mm
47-32716-K5243-022010	fitting reducer K65, female/male	7/8" - 3/8"
47-32716-K5243-022016	fitting reducer K65, female/male	7/8" - 5/8"
47-32716-K5243-022019	fitting reducer K65, female/male	7/8" - 3/4"
47-32716-K5243-022022	fitting reducer K65, female/male	7/8" - 22 mm
47-32716-K5243-028016	fitting reducer K65, female/male	1 1/8" - 5/8"
47-32716-K5243-028019	fitting reducer K65, female/male	1 1/8" - 3/4"
47-32716-K5243-028022	fitting reducer K65, female/male	1 1/8" - 7/8"
47-32716-K5243-028028	fitting reducer K65, female/male	1 1/8" - 28 mm
47-32716-K5243-035028	fitting reducer K65, female/male	1 3/8" - 1 1/8"
47-32716-K5243-035035	fitting reducer K65, female/male	1 3/8" - 35 mm
47-32716-K5243-042028	fitting reducer K65, female/male	1 5/8" - 1 3/8"
47-32716-K5243-042042	fitting reducer K65, female/male	1 5/8" - 42 mm



Code	Description	Dimensions
47-32716-K5270-010	straight coupling K65, male/male	3/8"
47-32716-K5270-012	straight coupling K65, male/male	1/2"
47-32716-K5270-016	straight coupling K65, male/male	5/8"
47-32716-K5270-019	straight coupling K65, male/male	3/4"
47-32716-K5270-022	straight coupling K65, male/male	7/8"
47-32716-K5270-028	straight coupling K65, male/male	1 1/8"
47-32716-K5270-035	straight coupling K65, male/male	1 3/8"
47-32716-K5270-042	straight coupling K65, male/male	1 5/8"



Code	Description	Dimensions
47-32716-K5301-010	cap K65	3/8"
47-32716-K5301-012	cap K65	1/2"
47-32716-K5301-016	cap K65	5/8"
47-32716-K5301-019	cap K65	3/4"
47-32716-K5301-022	cap K65	7/8"
47-32716-K5301-028	cap K65	1 1/8"
47-32716-K5301-035	cap K65	1 3/8"
47-32716-K5301-042	cap K65	1 5/8"



**Fixing technology**

Code	Description
<b>clamping of steel piping - steel pipe clamps</b>	
47-8577011-12	single-screw pipe clamp, type M8 clamping head, 10-12 1/8"
47-8577011-16	single-screw pipe clamp, type M8 clamping head 12-16 1/4"
47-8577011-19	single-screw pipe clamp, type M8 clamping head 17-19 3/8"
47-8577011-23	single-screw pipe clamp, type M8 clamping head 20-23 1/2"
47-8577011-30	single-screw pipe clamp, type M8 clamping head 25-30 3/4"
47-8577011-38	single-screw pipe clamp, type M8 clamping head 31-38 1"
47-8577011-46	single-screw pipe clamp, type M8 clamping head 40-46 5/4"
47-8577011-53	single-screw pipe clamp, type M8 clamping head 48-53 6/4"
47-8577011-64	single-screw pipe clamp, type M8 clamping head 60-64 2"
47-8577011-78	single-screw pipe clamp, type M8/M10 clamping head 72-78 2 1/2"
47-8577011-92	single-screw pipe clamp, type M8/M10 clamping head 87-92 3"
47-8577011-116	single-screw pipe clamp, type M8/M10 clamping head 102-116 4"



47-8577010-50	two-screw pipe clamp without rubber lining, M8 44-46
47-8577010-58	two-screw pipe clamp without rubber lining, M8/M10 50-56
47-8577010-65	two-screw pipe clamp without rubber lining, M8 60-65* (48-53)**
47-8577010-71	two-screw pipe clamp without rubber lining, M8/M10 63-67
47-8577010-76	two-screw pipe clamp without rubber lining, M8/M10 70-73
47-8577010-83	two-screw pipe clamp without rubber lining M8/M10 78-80
47-8577010-90	two-screw pipe clamp without rubber lining M8/M10 83-91
47-8577010-98	two-screw pipe clamp without rubber lining M8/M10 93-98* (81-86)**
47-8577010-104	two-screw pipe clamp without rubber lining M8/M10 101-106
47-8577010-118	two-screw pipe clamp without rubber lining M8/M10 108-114
47-8577010-128	two-screw pipe clamp without rubber lining M8/M10 118-125
47-8577010-137	two-screw pipe clamp without rubber lining M8/M10 131-135
47-8577010-151	two-screw pipe clamp without rubber lining M8/M10 140-144



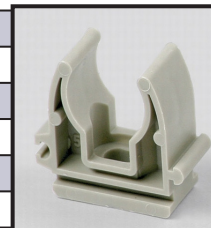
47-8577012-16	two-screw pipe clamp, type M8 clamping head 12-16 1/4"
47-8577012-19	two-screw pipe clamp, type M8 clamping head 17-19 3/8"
47-8577012-23	two-screw pipe clamp, type M8 clamping head 20-23 1/2"
47-8577012-30	two-screw pipe clamp, type M8 clamping head 25-30 3/4"
47-8577012-38	two-screw pipe clamp, type M8 clamping head 31-38 1"
47-8577012-46	two-screw pipe clamp, type M8 clamping head 40-46 5/4"
47-8577012-53	two-screw pipe clamp, type M8 clamping head 48-53 6/4"
47-8577012-58	two-screw pipe clamp, type M8/M10 clamping head 54-59
47-8577012-63	two-screw pipe clamp, type M8/M10 clamping head 60-64 2"
47-8577012-73	two-screw pipe clamp, type M8/M10 clamping head 67-71
47-8577012-80	two-screw pipe clamp, type M8/M10 clamping head 72-78 2 1/2"
47-8577012-86	two-screw pipe clamp, type M8/M10 clamping head 81-86
47-8577012-91	two-screw pipe clamp, type M8/M10 clamping head 87-92 3"
47-8577012-103	two-screw pipe clamp, type M8/M10 clamping head 95-103
47-8577012-116	two-screw pipe clamp, type M8/M10 clamping head 102-116 4"
47-8577012-141	two-screw pipe clamp, type M8/M10 clamping head 133-141 5"
47-8577012-168	two-screw pipe clamp, type M8/M10 clamping head 159-168 6"



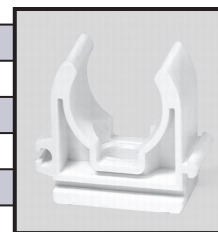
Code	Description
<b>clamping of steel piping - steel pipe clamps</b>	
47-8577036-M10-70	U-bolt for less exacting applications ZnZ 2 1/4" M10 zinc-plated 60–70
47-8577036-M10-76	U-bolt for less exacting applications ZnZ 2 1/2" M10 zinc-plated 66–76
47-8577036-M10-82	U-bolt for less exacting applications ZnZ 2 3/4" M10 zinc-plated 70–82
47-8577036-M10-90	U-bolt for less exacting applications ZnZ 3" M10 zinc-plated 80–90
47-8577036-M12-102	U-bolt for less exacting applications ZnZ 3 1/2" M12 zinc-plated 90–102
47-8577036-M12-108	U-bolt for less exacting applications ZnZ 3 3/4" M12 zinc-plated 100–108
47-8577036-M6-17	U-bolt for less exacting applications ZnZ 3/8" M6 zinc-plated 12–17
47-8577036-M6-21	U-bolt for less exacting applications ZnZ 1" M6 zinc-plated 15–21
47-8577036-M8-27	U-bolt for less exacting applications ZnZ 3" M8 zinc-plated 20–27
47-8577036-M8-34	U-bolt for less exacting applications ZnZ 1" M8 zinc-plated 26–34
47-8577036-M8-42	U-bolt for less exacting applications ZnZ 5/4" M8 zinc-plated 33–42
47-8577036-M8-49	U-bolt for less exacting applications ZnZ 6/4" M8 zinc-plated 40–49
47-8577036-M8-60	U-bolt for less exacting applications ZnZ 2" M8 zinc-plated 50–60



<b>pipe clamping - plastic pipe clips</b>	
47-8577021-20	gray single plastic pipe clip, diameter 20
47-8577021-25	gray single plastic pipe clip, diameter 25
47-8577021-32	gray single plastic pipe clip, diameter 32
47-8577021-40T	gray single plastic pipe clip, diameter 40
47-8577021-50T	gray single plastic pipe clip, diameter 50
47-8577021-75T	gray single plastic pipe clip, diameter 75
47-8577021-110T	gray single plastic pipe clip, diameter 110
47-8577021-216	gray double plastic pipe clip, diameter 2 × 16
47-8577021-220	gray double plastic pipe clip, diameter 2 × 20
47-8577021-225	gray double plastic pipe clip, diameter 2 × 25
47-8577021-232	gray double plastic pipe clip, diameter 2 × 32
47-8577021-233	gray double plastic pipe clip, diameter 2 × 32



47-8577022-008	white single plastic pipe clip, diameter 8.5 for copper pipes
47-8577022-010	white single plastic pipe clip, diameter 10 for copper pipes
47-8577022-012	white single plastic pipe clip, diameter 12 for copper pipes
47-8577022-015	white single plastic pipe clip, diameter 15 for copper pipes
47-8577022-022	white single plastic pipe clip, diameter 22 for copper pipes
47-8577022-028	white single plastic pipe clip, diameter 28 for copper pipes
47-8577022-035	white single plastic pipe clip, diameter 35 for copper pipes
47-8577022-212	white double plastic pipe clip, diameter 2 × 12 for copper pipes
47-8577022-215	white double plastic pipe clip, diameter 2 × 15 for copper pipes
47-8577022-218	white double plastic pipe clip, diameter 2 × 18 for copper pipes
47-8577022-222	white double plastic pipe clip, diameter 2 × 22 for copper pipes
47-8577022-228	white double plastic pipe clip, diameter 2 × 28 for copper pipes



47-857702C-058	Cpr plastic pipe clip 8
47-857702C-060	Cpr plastic pipe clip 10
47-857702C-062	Cpr plastic pipe clip 12
47-857702C-065	Cpr plastic pipe clip 15–16
47-857702C-068	Cpr plastic pipe clip 16–18
47-857702C-072	Cpr plastic pipe clip 20–22
Code	Description
47-857702C-078	Cpr plastit pipe clip 28



47-857702C-082	Cpr plastic pipe clip 35
47-857702C-158	Cpr double plastic pipe clip 2 × 8
47-857702C-160	Cpr double plastic pipe clip 2 × 10
47-857702C-162	Cpr double plastic pipe clip 2 × 12
47-857702C-165	Cpr double plastic pipe clip 2 × 15–16
47-857702C-168	Cpr double plastic pipe clip 2 × 16–18
47-857702C-178	Cpr double plastic pipe clip 2 × 28
47-857702C-182	Cpr double plastic pipe clip 2 × 35



47-8577013-12	perforated tape 12 mm x 10 m, zinc-plated
47-8577013-17	perforated tape 17 mm x 10 m, zinc-plated
<b>mounting accessories</b>	
47-857703182-50	saddle clamp 27/18,28/30 UNIVERSAL
47-857703182-55	saddle clamp 38/40,40/60 UNIVERSAL

47-8577031S-10	rail connector for fixing rail 27/18, 28/30
47-8577031S-15	rail connector for fixing rail 38/40, 40/60

47-8577031P-3	universal side support for cantilever arm 45°, 300 mm
47-8577031P-5	universal side support for cantilever arm 45°, 500 mm

47-85770318-083	slide T-bolt assembly M8 × 30 mm 27/18+28/30
47-85770318-085	slide T-bolt assembly M8 × 50 mm 27/18+28/30
47-85770318-303	slide T-bolt assembly M10 × 30 mm 38/40+40/60
47-85770318-305	slide T-bolt assembly M10 × 50 mm 38/40+40/60



47-857703189-8	descriptive plaque M8 set (plate, self-adhesive tape,
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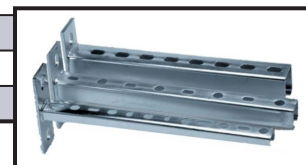
47-85770317-21	removable plastic cap 27/18
47-85770317-23	removable plastic cap 28/30
47-85770317-34	removable plastic cap 38/40, 41/41

<b>special anchoring</b>	
47-8577032-8120	hinge pin for trapezoidal sheet hanger type TZ M8 × 120 mm

<b>fixing rails, cantilever arms and supporting galvanized channels</b>	
47-8577041-21-20	fixing rail 27/18 × 2000 mm 1.25 zinc-plated
47-8577041-21-30	fixing rail 27/18 × 3000 mm 1.25 zinc-plated
47-8577041-23-20	fixing rail 28/30 × 2000 mm 1.75 zinc-plated
47-8577041-23-30	fixing rail 28/30 × 3000 mm 1.75 zinc-plated
47-8577041-34-30	fixing rail 38/40 × 3000 mm 2.00 zinc-plated



47-8577042-21-20	cantilever arm 27/18 × 200(220) mm 1.25 zinc-plated
47-8577042-21-30	cantilever arm 27/18 × 300(320) mm 1.25 zinc-plated
47-8577042-21-50	cantilever arm 27/18 × 500 mm 1.25 zinc-plated
47-8577042-23-30	cantilever arm 28/30 × 300(320) mm 1.75 zinc-plated
47-8577042-23-40	cantilever arm 28/30 × 440 mm 1.75 zinc-plated
47-8577042-23-50	cantilever arm 28/30 × 500 mm 1.75 zinc-plated



Code	Description	
<b>fixing rails, cantilever arms and supporting galvanized channels</b>		
47-8577042-23-60	cantilever arm 28/30 × 600 mm 1.75 zinc-plated	
47-8577042-34-30	cantilever arm 38/40 × 300(320) mm 2.00 zinc-plated	
47-8577042-34-40	cantilever arm 38/40 × 400(410) mm 2.00 zinc-plated	
47-8577042-34-50	cantilever arm 38/40 × 500 mm 2.00 zinc-plated	
47-8577042-34-60	cantilever arm 38/40 × 600 mm 2.00 zinc-plated	

47-8577031K-26	cantilever arm KLS 28/30-600
47-8577031K-36	cantilever arm KLS 38/40-600

47-8577045-020	supporting galvanized channel 20 x 2 m - zinc-plated	
47-8577045-025	supporting galvanized channel 25 x 2 m - zinc-plated	
47-8577045-032	supporting galvanized channel 47-32x 2 m - zinc-plated	
47-8577045-040	supporting galvanized channel 40 x 2 m - zinc-plated	

<b>gas meter spacer</b>		
47-8577051-25-1	long flat spacer 1" 250	
47-8577051-25-54	long flat spacer 5/4"250	
47-8577052-1-1	short flat spacer 1" 100	
47-8577052-1-54	short flat spacer 5/4"100	

47-8577053-240-1	long regulation spacer 1"	
47-8577053-240-54	long regulation spacer 5/4"	
47-8577054-100-1	short regulation spacer 1"	
47-8577054-100-54	short regulation spacer 5/4"	

<b>anchor components</b>		
47-85770331-06	NYLON wall plug, brown H6	
47-85770331-08	NYLON wall plug, brown H8	
47-85770331-10	NYLON wall plug, brown H10	
47-85770331-12	NYLON wall plug, brown H12	
47-85770331-14	NYLON wall plug, brown H14	

47-85770861-06	wall plug TX-PA 6	
47-85770861-08	wall plug TX-PA 8	
47-85770861-10	wall plug TX-PA 10	
47-85770861-12	wall plug TX-PA 12	

47-857708K-08	drop-in anchor type ZK M8 with collar	
47-857708K-10	drop-in anchor type ZK M10 with collar	
47-857708K-12	drop-in anchor type ZK M12 with collar	

47-857708S-081	anchor bolt 8/100+113/166	
47-857708S-083	anchor bolt 8/30+43/96	
47-857708S-085	anchor bolt 8/50+63/116	
47-857708S-100	anchor bolt 10/5/69	
47-857708S-101	anchor bolt 10/15+23/89	
47-857708S-103	anchor bolt 10/35+43/109	
47-857708S-105	anchor bolt 10/50+58/124	



Code	Description
47-857709-000	chemical mortar polyester R-Kem 175 ml
47-857709-001	chemical mortar polyester R-Kem 300 ml
47-857709-002	static mixer

47-857709-005	brush for cleaning the holes UNI M8-M20
47-857709-007	pump for cleaning the holes

47-857709-010	steel sifters for chemical mortar, d = 12,5 x 1000 mm for M8/M10
47-857709-011	steel sifters for chemical mortar d = 15 x 1000 mm for M12
47-857709-012	steel sifters for chemical mortar, d = 20,5 x 1000 mm for M16

47-857709-020	plastic sifters for chemical mortar, d = 10 x 50 mm, for M6
47-857709-021	plastic sifters for chemical mortar, d = 15 x 80 mm, for M8/M10
47-857709-022	plastic sifters for chemical mortar, d = 15 x 130 mm, for M8/M10

47-857709-030	bolt for chemical anchoring M8x110
47-857709-031	bolt for chemical anchoring M10x130
47-857709-032	bolt for chemical anchoring M12x130

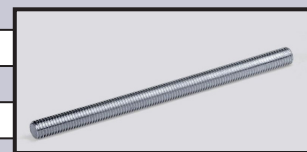
**fasteners**

47-857703-08-050	wood screw COMBI M8 × 50 mm TORX
47-857703-08-060	wood screw COMBI M8 × 60 mm TORX
47-857703-08-070	wood screw COMBI M8 × 70 mm TORX
47-857703-08-080	wood screw COMBI M8 × 80 mm TORX
47-857703-08-100	wood screw COMBI M8 × 100 mm TORX
47-857703-08-120	wood screw COMBI M8 × 120 mm TORX
47-857703-08-140	wood screw COMBI M8 × 140 mm TORX
47-857703-10-100	wood screw COMBI M10 × 100 mm TORX
47-857703-10-120	wood screw COMBI M10 × 120 mm TORX
47-857703-10-140	wood screw COMBI M10 × 140 mm TORX




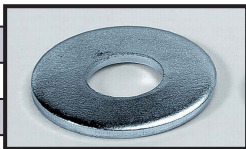
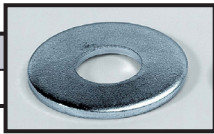
47-8577039-A08	mounting tool for AKU M8
47-8577039-A10	mounting tool for AKU M10

47-8577032-08-1	threaded rod M8 × 1000 mm zinc-plated 4.6
47-8577032-08-2	threaded rod M8 × 2000 mm zinc-plated 4.6
47-8577032-10-1	threaded rod M10 × 1000 mm zinc-plated 4.6
47-8577032-12-1	threaded rod M12 × 1000 mm zinc-plated 4.6
47-8577032-14-1	threaded rod M14 × 1000 mm zinc.plated 4.6

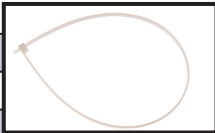


47-85770841-06	hexagon nut M6 DIN 934 ZB
47-85770841-08	hexagon nut M8 DIN 934 ZB
47-85770841-10	hexagon nut M10 DIN 934 ZB
47-85770841-12	hexagon nut M12 DIN 934 ZB
47-85770841-14	hexagon nut M14 DIN 934 ZB
47-85770841-16	hexagon nut M16 DIN 934 ZB



Code	Description	
<b>fasteners</b>		
47-85770842-06	selflocking hexagon nut M6 DIN 985 ZB	
47-85770842-08	selflocking hexagon nut M8 DIN 985 ZB	
47-85770842-10	selflocking hexagon nut M10 DIN 985 ZB	
47-85770842-12	selflocking hexagon nut M12 DIN 985 ZB	
47-85770843-08	hexagon nut, toothed collar M8	
47-85770843-10	hexagon nut, toothed collar M10	
47-85770843-12	hexagon nut, toothed collar M12	
85 770313-08-30	connecting nut M8 × 13 × 30 DIN 6334	
85 770313-10-20	connecting nut M10 × 13 × 25 DIN 6334	
85 770313-10-30	connecting nut M10 × 17 × 30 DIN 6334	
47-85770832-06	washer M 6 DIN440 ZB	
47-85770832-08	washer M 8 DIN440 ZB	
47-85770832-10	washer M10 DIN440 ZB	
47-85770832-12	washer M12 DIN440 ZB	
47-85770832-14	washer M14 DIN440 ZB	
47-85770837-08	serrated washer M8, DIN 6798-A	
47-85770837-10	serrated washer M10, DIN 6798-A	
47-85770837-12	serrated washer M12, DIN 6798-A	
47-85770838-08	spring washer M8, DIN 7980	
47-85770838-10	spring washer M10, DIN 7980	
47-85770838-12	spring washer M12, DIN 7890	
47-85770836-03	large washer 10,5 × 30 × 1,5 ZB	
47-85770836-83	large washer 8,4 × 30 × 1,5 ZB	
47-85770835-08	washer for fixing rails 8,5 × 27 × 2 ZB	
47-85770835-10	washer for fixing rails 10,3 × 27 × 2 ZB	
47-857708-50045	wood screw 5,0 × 45 ZH PZ ZZ	
47-857708-50050	wood screw 5,0 × 50 ZH PZ ZZ	

## Nylon straps

Code	Description	
47-301002-10	nylon strap mm 100-2,5	
47-301002-11	nylon strap mm 160-2,5	
47-301002-15	nylon strap mm 190-4,8	
47-301002-12	nylon strap mm 200-3,6	
47-301002-17	nylon strap mm 292-3,6	
47-301002-13	nylon strap mm 300-3,5	
47-301002-14	nylon strap mm 370-3,5	
47-301002-16	nylon strap mm 370-3,6	

**Ester oils for compressors**
**R134a, R-404A, R-507**

Code	Producer	Type	Package [l]
47-326500-100-025	FUCHS	Fuchs Reniso PAG 100, R134, for A/C	0,25
47-326500-46-025	FUCHS	Fuchs Reniso PAG 46, R134, for A/C	0,25
47-326501-22-1	FUCHS	TRITON – SEZ 22	1
47-326501-22-5	FUCHS	TRITON – SEZ 22	5
47-326501-32-1	FUCHS	TRITON – SEZ 32	1
47-326501-32-5	FUCHS	TRITON – SEZ 32	5
47-326501-55-1	FUCHS	TRITON – SE 55	1
47-326501-68-1	FUCHS	TRITON – SEZ 68	1
47-326501-68-5	FUCHS	TRITON – SEZ 68	5
47-326501-80-1	FUCHS	TRITON – SEZ 80 for A/C	1
47-326501-80-10	FUCHS	TRITON - SEZ 80	10
47-326501-170-1	FUCHS	TRITON – SEZ 170	1
47-326501-170-5	FUCHS	TRITON – SEZ 170	5
47-326501-170-10	FUCHS	TRITON - SEZ 170	10
47-326501-170-20	FUCHS	TRITON - SEZ 170	20
47-326501-220-5	FUCHS	TRITON - SEZ 220	5
47-326501-C85E	FUCHS	C85E, pro CO2	10
47-326501-KC68-20	FUCHS	KC68V, for cooling ammonia compressors	20
47-326503-22-5	MOBIL	Mobil Eal Arctic 22	5
47-326503-32-5	MOBIL	Mobil Eal Arctic 32	5
47-326503-46-5	MOBIL	Mobil Eal Arctic 46	5
47-326503-68-5	MOBIL	Mobil Eal Arctic 68	5
47-326503-22CC-5	MOBIL	Mobil Ale Arctic 22 CC	5
47-326504-2000-1	EMKARATE	Emkarate RL 2000 for A/C	1
47-326504-22H-1	EMKARATE	Emkarate RL 22H	1
47-326504-32H-1	EMKARATE	Emkarate RL 32H	1
47-326504-32-3MAF	EMKARATE	Emkarate RL 32-3MAF	1
47-326504-32-3MAF-5	EMKARATE	Emkarate RL 32-3MAF	5
47-326504-46H-1	EMKARATE	Emkarate RL 46H	1
47-326504-68H-1	EMKARATE	Emkarate RL68H	1
47-326504-68H-20	EMKARATE	Emkarate RL68H	20
47-326504-100H-1	EMKARATE	Emkarate RL 100H	1
47-326504-170H-1	EMKARATE	Emkarate RL 170H	1
47-326506-160PZ-2,5	MANEUROP	160PZ, for compressors Maneurop	2,5
47-326506-160SZ	MANEUROP	oil for compressors Maneurop SZ	2
47-326506-160Z	MANEUROP	oil for compressors Maneurop Z	1
47-326505-032	CASTROL	Castrol Icematic SW 47-32EU	1
47-326501-SL22-4	SUNISO	Suniso SL22	4
47-326501-SL32-4	SUNISO	Suniso SL32	4
47-326507-032-5	BITZER	BSE32	5
47-326507-170-10	BITZER	BSE170	10
47-326508-PVE	Tecumseh / L'Unite	BIDON Huile	1



## Mineral oils for compressors

R-22

Code	Producer	Type	Package [l]
47-326500-3GS-4	SUNISO	Suniso 3GS	4
47-326500-4GS-4	SUNISO	Suniso 4GS	4
47-326501-KM32-1	FUCHS	Fuchs Reniso KM 32	1
47-326501-KS46-1	FUCHS	Fuchs Reniso KS 46	1
47-326500-SP46-1	FUCHS	Fuchs Reniso SP 46	1
47-326500-SP46-5	FUCHS	Fuchs Reniso SP 46	5
47-326500-SP46-20	FUCHS	Fuchs Reniso SP 46	20
47-326506-160P	MANEUROP	oil for compressors Maneurop 160P	2



Compressors or systems	RENISO TRITON							
	SEZ 15	SEZ 22	SEZ 32	SE 55	SEZ 68	SEZ 80	SEZ 100	SE 170
Refrigerant R 134a								
Fridges	1	1	2	4	4	4	4	4
Cooling furniture	2	1	1	3	4	4	4	4
Semi-hermetic and hermetic compressors	4	2	1	2	2	3	3	4
Open compressors	4	3	1	1	1	2	2	4
Screw compressors	4	3	3	3	3	3	2	1
Turbo-compressors	4	4	4	1	1	2	2	4
A/C systems	4	4	4	1	1	2	2	4
Refrigerant R23								
Reciprocating and screw compressors	2	1	1	4	4	4	4	4

Rating: 1 - very good, 4 - not recommended

## Oils for vacuum pumps

Code	Producer	Description	Package (l)
47-326502-01	MASTERCOOL	oil for vacuum pump Mastercool, 0,3 l	0,3
47-326502-02	MASTERCOOL	oil for vacuum pump Mastercool, 0,53 l	0,53
47-326502-03	MASTERCOOL	oil for vacuum pump Mastercool, 0,71 l	0,71
47-326502-10	ERRECOM	oil for vacuum pump Errecom 68, 0,25 l	0,25
47-326502-11	ERRECOM	oil for vacuum pump Errecom 68, 0,50 l	0,5
47-326502-12	ERRECOM	oil for vacuum pump Errecom 68, 1,0 l	1,0
47-326502-20	VALUE	oil for vacuum pump Value VPO-46, mineral, 0,5 l	0,5
47-326502-21	VALUE	oil for vacuum pump Value VPO-68, ester, 0,5 l	0,5
47-326502-DV-46	REFCO	oil for vacuum pump Refco DV-46, 1l	1,0
47-326502-K1	WIGAM	oil for vacuum pump Wigam, K1 mineral, 1 l	1,0

### Brazing fluxes

Code	Description
47-329016-119	brazing flux AG4 0,1 kg - powder
47-329016-15	brazing flux AG4 0,25 kg - powder
47-329016-11	brazing flux AG4 0,5 kg - powder
47-329016-16	brazing flux AG4 1,0 kg - powder
47-329016-49	brazing flux AG4 1,0 kg - paste FH10

### Valve for bottles

Code	Type	Description
47-323006-01	BVR - 4 / 750 ml	1/4" SAE
47-323006-04	R – 600, R-134a, 1/4" SAE	reduktion 750 ml

## Alloys

Code	Ø [mm]	Length [mm]	Composition %						Activity range [°C]	Standards						
			P	Sn	Ag	Cu	Zn	Al		EN 1044	EN 1774	ISO 3677	AWS 5.8	DIN 8513	DIN 8513/1	
<b>Uncoated alloys</b>																
47-329016-00	2,0	500	6,4-7,2	6,5-7,5		87,1-85,3		650-700	CP 302		B-Cu86SnP-650/700					
47-329016-03	2,0	500	5,9-6,5			94,1-93,5		710-890	CP 203		B-Cu94P-710/890			L-CuP6		
47-329016-04	2x2,0	500	5,9-6,5			94,1-93,5		710-890	CP 203		B-Cu94P-710/890			L-CuP6		
47-329016-17	2,0	500	6,8-7,5			93,2-92,5		710-820	CP 202		B-Cu93P-710/890			L-CuP7		
47-329016-08	1,5	500		2,5	34	36	27,5	630-730	Ag 106		B-Cu36AgZnSn 630/730					L-Ag34Sn
47-329016-10	1,5	500		2	40	30	28	650-710	Ag 105		B-Ag40CuZnSn 650/710					L-Ag40Sn
47-329016-18	2,0	500		2,5	34	36	27,5	630-730	Ag 106		B-Cu36AgZnSn 630/730					L-Ag34Sn
47-329016-05	1,5	500	5,7-6,3		4,5-5,5	89,8-88,2		645-815	CP 104		B-Cu89Ag/645/815			L-Ag5P		
47-329016-12	2,0	500	5,7-6,3		4,5-5,5	89,8-88,2		645-815	CP 104		B-Cu89Ag/645/815			L-Ag5P		
47-329016-13	2x2,0	500	5,7-6,3		4,5-5,5	89,8-88,2		645-815	CP 104		B-Cu89Ag/645/815			L-Ag5P		
47-329016-14	2,0	500	4,7-5,3		14,5-15,5	80,8-79,2		645-800	CP 102		B-Cu80AgP-645-800			L-Ag15P		
47-329016-35	2,0	500	6,5		2	91,5		645-825	CP 105					L-Ag2P		
47-329016-36	2x2,0	500	6,5		2	91,5		645-825	CP 105					L-Ag2P		
<b>Coated alloys</b>																
47-329016-30	2,0	500		2	30	36	32	665-755	Ag 107		B-Cu36ZnAgSn665/755					L-Ag30Sn
47-329016-31	2,0	500		2,5	45	27	25,5	640-680	AG 104		B-Ag45CuZnSn640/680					L-Ag45Sn
47-329016-32	2,0	500		2,5	34	36	27,5	630-730	Ag 106		B-Cu36AgZnSn 630/730					L-Ag34Sn
47-329016-33	2,0	500		2	40	30	28	650-710	Ag 105		B-Ag40CuZnSn 650/710			B-Ag-28		L-Ag40Sn
47-329016-34	1,5	500		2,5	45	27	25,5	640-680	Ag 104		B-Ag45CuZnSn 640/680					L-Ag45Sn
47-329016-37	2,0	500		2	25	40	33	680-760	Ag 108		B-Cu40ZnAgSn 680/760					L-Ag25Sn
47-329016-40	2,0	500					96	385-402		ZnA14	S-Zn96A14/385/400					

**Refrigerants**

Refrigerant - Product Name	R-134a Solkane 134a	R-413A Isceon 49	R-417A Isceon 59	R-404A Solkane 404A	R-507 Solkane 507	R-407C Solkane 407C	R-422D Isceon 29	R-410A Solkane 410A
Synonyms	tetrafluorethan	oktafluorpropan/ tetrafluorethan / iso-butan	tetrafluoroethan/ pentafluoroethan/ iso-butan	pentafluoroethan/ trifluorethan / tetrafluorethan	Trifluoroethan/ pentafluorethan	difluormethan/ pentafluoroethan/ tetrafluorethan	pentafluoroethan/ tetrafluoroethan/ iso-butan	difluormethan/ pentafluorethan
Compositon of he mixture		R-218 9% R-134a 88% R-600a 3%	R-134a 50% R-125 46,6% R-600a 3,4%	R 125 44% R 143a 52% R 134a 4%	R-125 50% R-143a 50%	R-47-32 23% R-125 25% R-134 52%	R-125 63,1% R-134a 31,5% R-600a 3,4%	R-47-32 50% R-125 50%
Chemical formula	$CF_3CH_2F$	$CF_3CF_2CF_3$ $CF_3CH_2F$ $C_4H_{10}$	$CF_3CH_2F$ $CHF_2CF_3$ $C_4H_{10}$	$CHF_2CF_3$ $CH_3CF_3$	$CHF_2CF_3$ $CH_3CF_3$ $CF_3CH_2F$	$CH_2F_2$ $CHF_2CF_3$ $CF_3CH_2F$	$CHF_2CF_3$ $CF_3CH_2F$ $C_4H_{10}$	$CHF_2CF_3$ $CHF_2CF_3$
Molecular weight kg/kmol	102,0	103,96	106,8	98,9	97,6	86,2	109,94	72,6
Boiling Point °C	-26,3	-35,0	-39,1	-46,5	-46,4	-43,8	-43,2	-51,5
Critical temperature °C	101,1	101,3	87,1	70,8	72,7	86,4	79,56	71,8
Critical pressure bar	40,6	41,1	40,4	37,2	37,32	46,2	39,03	48,9
Liquid Density* kg/m <sup>3</sup>	1 208	1 188	1 152	1 057	1 045	1 135	1 144	1 068
Vapour Density** kg/m <sup>3</sup>	32,633	39,0	46,6	68,25	64,033	43,77	59,3	65,138
Oil mixing	POE	M, AB, POE	M, AB, POE	POE	POE	POE	M, AB, POE	POE
Replacement for	R-12	R-12	R-22	R-22 a R-502	R-22 a R-502	A/C + heat pumps	R-22	A/C
Bottle volume	12 / 40	12	11,5 / 35 / 40	10 / 30 / 34	10	10 / 35	10 / 35	10 / 30
Type of packaging	backed up	backed up	backed up	backed up	backed up	backed up	backed up	backed up
Code	47-326001-134	47-326001-437- IS49	47-326001-417- IS59	47-326001-404	47-326001-507	47-326001-407- 10	47-326001-422D	47-326001-410
Note - (*) at 25°C, (**) at 25°C/1,013 bar POE - polyester oil, M - mineral oil, AB - alkylbenzol oil								

## Refrigerants

Refrigerant - Product Name	R600a izobutan	R290 propan	R422a Isceon 79	R407F	R1234YF Opteon YF	R 32	RS44 R424A
Synonyms	izobutan	propan	isobutan/ tetrafluorethan/ pentafluorethan	pentafluorethan/ tetrafluorethan/ difluormethan	tetrafluoropropan	difluormethan	tetrafluorethan/ pentafluorethan/ isobutan/ isopentan/ butan
Compositon of he mixture	R600a 99,5%	R290 99,5%	R-600a 3,4% R134a 11,5% R125 85,1%	R125 30% R134a 40% R47-32 30%	R1234yf 99,9%		R134a 47% R-125 50,5% N-Butan 1% Izobutan 0,9%
Chemical formula	C <sub>4</sub> H <sub>10</sub>	C <sub>3</sub> H <sub>8</sub>	C <sub>2</sub> HF <sub>5</sub>	F <sub>3</sub> CCHF <sub>2</sub> F <sub>3</sub> CCH <sub>2</sub> F CH <sub>2</sub> F <sub>2</sub>	C <sub>3</sub> H <sub>2</sub> F <sub>4</sub>	CH <sub>2</sub> F <sub>2</sub>	
Molecular weight kg/kmol	58,12	44,1	120,02	102,03	114	52,024	108,1
Boiling Point °C	-11,7	-42,0	-48,5	-26,6	-29,4	-51,7	-38,7
Critical temperature °C	134,9	96,6		100,9		78,4	88,8
Critical pressure bar	36,48	42,5		40,6		58,1	40,4
Liquid Density* kg/m <sup>3</sup>				512			1169
Vapour Density** kg/m <sup>3</sup>							43,6
Oil mixing							MO, AB, POE
Replacement for							R22
Bottle volume	0,42	0,42	10	50	5	9	12
Type of packaging	not backed up	not backed up	backed up	backed up	backed up	backed up	backed up
Code	47-3260-IN600	47-326001-290	47-326001-422A-IS79	47-326001-407F	47-326001-1234YF	47-326001-32-09	47-3260-044-12
Note - (*) at 25°C, (**) at 25°C/1,013 bar POE - polyester oil, M - mineral oil, AB - alkylbenzol oil							



**Chemical accessories -  
leak detection**

Code	Description
47-326710-10	standard universal dye MASTERCOOL, 10 doses
47-326710-04	standard universal dye, 240 ml, application: motors: 1 dose (7 ml) for 150 ml oil, cooling and A/C: 1 dose for 1,8 kg refrigerant
47-326710-05	concentrated universal dye cartridge, replaceable cartridge - 25 doses, application: motors: 1 dose for 300 ml oil, cooling and A/C: 1 dose for 3,2 kg refrigerant
47-326710-03	standard universal dye, 62 ml bottle - 25 doses, application: motors: 1 dose (2,5 ml) for 300 ml oil, cooling and A/C: 1 dose for 3,2 kg refrigerant
47-326710-07	standard universal dye, BRILIANT, 250 ml, yellow
47-326710-08	standard universal dye, BRILIANT, 90 ml, 12 cartridges x 7,5 ml, 2x hoses
47-326710-09	standard universal dye, BRILIANT, 90 ml, 12 cartridges x 7,5 ml, without hoses
47-326710-01	spray leak detector GAS CONTROL, volume: 400 ml, for all refrigerants
47-326710-02	leak detector SURE CHECK, volume: 473 ml, fluorescent, temperature range: up -50°C to +95°C
47-326710-00	leak detector TRACE 2, volume: 118 ml, compatible with all refrigerant and lubricants, application: 8 ml for 1 kg refrigerant
47-326710-11	leak detector, FOAM-LEAK, volume: 400 ml, long lasting bubbles
47-326710-06	service labels, 25 per pack

47-326710-1	47-326710-04	47-326710-05	47-326710-03
			
47-326710-07	47-326710-08	47-326710-09	47-9392-043
			
47-326710-01	47-326710-02	47-326710-00	47-326710-11
			

## Chemical accessories - cleaning




Code	Description
47-326720-03	CLEAN-AIR, sanitizer for air conditioning systems, volume: 400 ml
47-326720-00	DYE CLEANER, cleans dye, oil, dirt, volume: 960 ml
47-9392-062	flushing gun for cleaner Flush 0,6 l
47-326720-21	cleaner for filter of indoor units, volume 1l
47-326720-22	drain tubes cleaner 1l
47-329014-53314	dye remover, Mastercool 53314, 120 l, DYE REMOVER
47-326720-11	CLEAN PUMP, condenser pump treatment, 400 ml aerosol can
47-326720-20	BELNET, A/C system flushing fluid, metal container 1l, flammable
47-326720-19	SUPER BELNET, A/C system flushing fluid, metal container 1l, non flammable
47-326720-08	A/C system flushing fluid, Flush, 30 kg
47-326720-10	BELNET, A/C system flushing fluid, metal tank 5l, flammable
47-326720-09	SUPER BELNET, A/C system flushing fluid, metal tank 5l, non flammable
47-326720-06	A/C system flushing fluid, Flush, 6 l
47-9392-061	BELNET AEROSOL, A/C system flushing fluid, 0,6 l, flammable, with thread
47-9392-060	BELNET AEROSOL, A/C system flushing fluid, 0,6 l, flammable, with rubber cone
47-326720-12	BRILLIANT REMOVER, UV dyes remover, 400 ml - spray bottle
47-326720-13	BRILLIANT REMOVER, UV dyes remover, 400 ml - aerosol can
47-326720-05	universal detergent for filters, condensators and evaporators, WIGAM, 5l
47-326720-16	COND CLEANER, cleaner concentrated 1:4 for AC/R condensers, ERRECOM, 5 l
47-326720-17	BEST COND CLEANER, cleaner concentrated 1:6 for AC/R condensers, ERRECOM, 5 l
47-326720-18	BEST ACID COND CLEANER, cleaner concentrated 1:6 for AC/R deoxidizer, ERRECOM, 5 l
47-326720-15	COND CLEANER, cleaner concentrated 1:4 for AC/R condensers, ERRECOM, 10 l
47-326720-30	SnowPlow, cleaner for ice machines, bottle 1l
47-326720-23	Kill Tabs, sanitizing tablets for split and fan-coil, 18 pcs

47-326720-03 	47-326720-00 	47-9392-062 	47-326720-21 
47-326720-22 	47-329014-53314 	47-326720-11 	47-326720-20 
47-326720-19 	47-326720-08 	47-326720-10 	47-326720-09 

47-326720-0€ 	93 92-061 	47-9392-060 	47-326720-12 
47-326720-05 	47-326720-15 	47-326720-30 	47-326720-23 

**Chemical accessories -  
adhesives, sealing, drying**

Code	Description
47-326720-01	heat dissipating spray COOL GEL, volume 960 ml, helps prevent heat damage to components and surrounding materials during soldering
47-326730-00	epoxy sealer Heat- Seal HST, 11.7 g, resist up to 41 bar
47-326730-01	repair kit ST 115, for sealing evaporators, 57 g, temperature resistant from -35 up to 120°C
47-326730-02	aluminium flux and solder kit Al x Al, Al x Cu, volume: 28,3 g
47-326700-00	dehydrating fluid, TAWZONE 30 ml, (1 cap) neutralizes water and acid inside the cooling system, forming neutral compounds, applicator: 8 ml for 1 kg refrigerant
47-326720-02	thread locker LEAK LOCK, volume: 39 ml
47-326720-04	thread sealer LOCTITE volume: 50 ml
47-326730-03	EXTREME vehicle A/C system leak Stop in cartridge, EXTREME + adapter, 60 ml
47-326700-01	SUPER DRY anti-humidity cartridge 30 ml
47-326700-02	NO-ACID vehicle A/C system acid neutralizer 30 ml

47-326720-01 	47-326730-00 	47-326730-01 	47-326730-02 
47-326700-00 	47-326720-02 	47-326720-04 	47-326730-03 

**Chemical accessories -  
hygienizer treatment**

ERRECOM

Code	Description
47-9392-50	cockpit hygienizer treatment A/C ERRECOM, aerosol can 100 ml talc
47-9392-51	cockpit hygienizer treatment A/C ERRECOM, aerosol can 100 ml strawberry
47-9392-52	cockpit hygienizer treatment A/C ERRECOM, aerosol can 100 ml peach
47-9392-53	cockpit hygienizer treatment A/C ERRECOM, aerosol can 100 ml mint
47-9392-54	cockpit hygienizer treatment A/C ERRECOM, aerosol can 100 ml citron
47-9392-55	cockpit hygienizer treatment A/C ERRECOM, aerosol can 100 ml vanilla
47-9392-56	cockpit hygienizer treatment A/C ERRECOM, aerosol can 200 ml talc
47-9392-57	cockpit hygienizer treatment A/C ERRECOM, aerosol can 200 ml strawberry
47-9392-58	cockpit hygienizer treatment A/C ERRECOM, aerosol can 200 ml peach
47-9392-59	cockpit hygienizer treatment A/C ERRECOM, aerosol can 200 ml mint
47-9392-60	cockpit hygienizer treatment A/C ERRECOM, aerosol can 200 ml citron
47-9392-61	cockpit hygienizer treatment A/C ERRECOM, aerosol can 200 ml vanilla
47-9392-62	cockpit hygienizer treatment A/C ERRECOM, aerosol can 400 ml talc
47-9392-63	cockpit hygienizer treatment A/C ERRECOM, aerosol can 400 ml strawberry
47-9392-64	cockpit hygienizer treatment A/C ERRECOM, aerosol can 400 ml peach
47-9392-65	cockpit hygienizer treatment A/C ERRECOM, aerosol can 400 ml mint
47-9392-66	cockpit hygienizer treatment A/C ERRECOM, aerosol can 400 ml citron
47-9392-67	cockpit hygienizer treatment A/C ERRECOM, aerosol can 400 ml vanilla
47-9392-008	complete hygienizer treatment A/C ERRECOM - foam + aerosol 200 ml + 200 ml talc
47-9392-009	complete hygienizer treatment A/C ERRECOM - foam + aerosol 200 ml + 200 ml strawberry
47-9392-010	complete hygienizer treatment A/C ERRECOM - foam + aerosol 200 ml + 200 ml peach
47-9392-011	complete hygienizer treatment A/C ERRECOM - foam + aerosol 200 ml + 200 ml mint
47-9392-012	complete hygienizer treatment A/C ERRECOM - foam + aerosol 200 ml + 200 ml citron
47-9392-013	complete hygienizer treatment A/C ERRECOM - foam + aerosol 200 ml + 200 ml vanilla
47-9392-018	complete hygienizer treatment A/C ERRECOM - foam + aerosol 100 ml + 100 ml talc
47-9392-019	complete hygienizer treatment A/C ERRECOM - foam + aerosol 100 ml + 100 ml strawberry
47-9392-020	complete hygienizer treatment A/C ERRECOM - foam + aerosol 100 ml + 100 ml peach
47-9392-021	complete hygienizer treatment A/C ERRECOM - foam + aerosol 100 ml + 100 ml mint
47-9392-022	complete hygienizer treatment A/C ERRECOM - foam + aerosol 100 ml + 100 ml citron
47-9392-023	complete hygienizer treatment A/C ERRECOM - foam + aerosol 100 ml + 100 ml vanilla
47-9392-004	air-conditioner cleaner, WAECO, Aircon Refresh, 100 ml
47-9392-002	air-conditioner cleaner, WAECO, Aircon Refresh, 300 ml
47-9392-024	air-conditioner cleaner, WAECO, Aircon Refresh, 1 l
47-9392-26	hygienizer foam A/C ERRECOM, 100 ml, Killer Bact Foam
47-9392-27	hygienizer foam A/C ERRECOM, 200 ml, Killer Bact Foam
47-9392-007	hygienizer foam A/C ERRECOM, 400 ml, Killer Bact Foam
47-9392-005	hygienizer aerosol A/C ERRECOM, 400 ml, Killer Bact No-Foam
47-9392-030	hygienizer liquid treatment A/C ERRECOM, KillerBact, 10 l
47-9392-035	ultrasonic nebulizer ATOM MACHINE + 48 doses

**Chemical accessories -  
heat transfer fluids**

Code	Description
47-326750-L-030	heat transfer fluid ANTIFROGEN L, -25 [°C], 30 l
47-326750-L-060	heat transfer fluid ANTIFROGEN L, -25 [°C], 60 l
47-326750-N-030	heat transfer fluid ANTIFROGEN N, -35 [°C], 30 l
47-326750-N-060	heat transfer fluid ANTIFROGEN N, -35 [°C], 60 l
47-326750-KF-010	heat transfer fluid ANTIFROGEN KF, -50 [°C], 10 l
47-326750-KF-030	heat transfer fluid ANTIFROGEN KF, -50 [°C], 30 l
47-326750-KF-060	heat transfer fluid ANTIFROGEN KF, -50 [°C], 60 l

**Chemical accessories -  
oil tests**

Code	Description
47-326740-00	acid test - test the acid level of A/C lubricant, REFCO 9881446
47-326740-01	acid test - test the acid level of A/C lubricant for ABZ, PAG, POE, PAO and mineral oils
47-326740-06	acid test - test the acid level of A/C lubricant, for ester oils POE, Parker - ETK
47-326740-08	oil test - test of verifi the type of oil into A/C system, POE, ABZ, mineral oil
47-326740-07	oil test - test residual mineral oil during the transition to POE

**PUR wallpanel**
**MARCEGAGLIA**

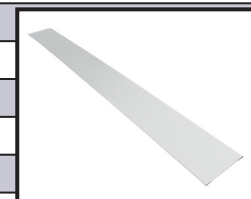
Code	Description
47-3296-560	polyuretane insulated wallpanel 60 - panel width 1000 mm
47-3296-580	polyuretane insulated wallpanel PUR 80 - panel width 1000 mm
47-3296-5100	polyuretane insulated wallpanel PUR 100 - panel width 1000 mm
47-3296-5120	polyuretane insulated wallpanel PUR 120 - panel width 1000 mm

Code	Description
<b>PUR 50</b>	
47-3296-550-2,7	polyuretane insulated wallpanel PUR 50 - cut L = 2700 mm, panel width 1000 mm
47-3296-550-3	polyuretane insulated wallpanel PUR 50 - cut L = 3000 mm, panelu width 1000 mm
<b>PUR 60</b>	
47-3296-560-2	polyuretane insulated wallpanel PUR 60 - cut L = 2000 mm, panel width 1000 mm
47-3296-560-2,1	polyuretane insulated wallpanel PUR 60 - cut L = 2100 mm, panel width 1000 mm
47-3296-560-2,2	polyuretane insulated wallpanel PUR 60 - cut L = 2200 mm, panel width 1000 mm
47-3296-560-2,3	polyuretane insulated wallpanel PUR 60 - cut L = 2300 mm, panelu width 1000 mm
47-3296-560-2,4	polyuretane insulated wallpanel PUR 60 - cut L = 2400 mm, panel width 1000 mm
47-3296-560-2,5	polyuretane insulated wallpanel PUR 60 - cut L = 2500 mm, panel width 1000 mm
47-3296-560-2,6	polyuretane insulated wallpanel PUR 60 - cut L = 2600 mm, panel width 1000 mm
47-3296-560-2,7	polyuretane insulated wallpanel PUR 60 - cut L = 2700 mm, panel width 1000 mm
47-3296-560-2,8	polyuretane insulated wallpanel PUR 60 - cut L = 2800 mm, panel width 1000 mm
47-3296-560-2,9	polyuretane insulated wallpanel PUR 60 - cut L = 2900 mm, panel width1000 mm
47-3296-560-3	polyuretane insulated wallpanel PUR 60 - cut L = 3000 mm, panel width 1000 mm
47-3296-560-3,2	polyuretane insulated wallpanel PUR 60 - cut L = 3200 mm, panel width 1000 mm
47-3296-560-3,5	polyuretane insulated wallpanel PUR 60 - cut L = 3500 mm, panel width 1000 mm

Code	Description
<b>PUR 80</b>	
47-3296-580-2,0	polyuretane insulated wallpanel PUR 80 - cut L = 2000 mm, panel width 1000 mm
47-3296-580-2,1	polyuretane insulated wallpanel PUR 80 - cut L = 2100 mm, panel width 1000 mm
47-3296-580-2,2	polyuretane insulated wallpanel PUR 80 - cut L = 2200 mm, panel width 1000 mm
47-3296-580-2,3	polyuretane insulated wallpanel PUR 80 - cut L = 2300 mm, panel width 1000 mm
47-3296-580-2,4	polyuretane insulated wallpanel PUR 80 - cut L = 2400 mm, panel width 1000 mm
47-3296-580-2,5	polyuretane insulated wallpanel PUR 80 - cut L = 2500 mm, panel width 1000 mm
47-3296-580-2,6	polyuretane insulated wallpanel PUR 80 - cut L = 2600 mm, panel width 1000 mm
47-3296-580-2,7	polyuretane insulated wallpanel PUR 80 - cut L = 2700 mm, panel width 1000 mm
47-3296-580-3,5X	polyuretane insulated wallpanel PUR 80 - cut L = 3500 mm, panel width 1000 mm
47-3296-580-3,6	polyuretane insulated wallpanel PUR 80 - cut L = 3600 mm, panel width 1000 mm
47-3296-580-4,0	polyuretane insulated wallpanel PUR 80 - cut L = 4000 mm, panel width 1000 mm
<b>PUR 100</b>	
47-3296-5100-02000	polyuretane insulated wallpanel PUR 100 - cut L = 2000 mm, panel width 1000 mm
47-3296-5100-02100	polyuretane insulated wallpanel PUR 100 - cut L = 2100 mm, panel width 1000 mm
47-3296-5100-02200	polyuretane insulated wallpanel PUR 100 - cut L = 2200 mm, panel width 1000 mm
47-3296-5100-02300	polyuretane insulated wallpanel PUR 100 - cut L = 2300 mm, panel width 1000 mm
47-3296-5100-02400	polyuretane insulated wallpanel PUR 100 - cut L = 2400 mm, panel width 1000 mm
47-3296-5100-02500	polyuretane insulated wallpanel PUR 100 - cut L = 2500 mm, panel width 1000 mm
47-3296-5100-02600	polyuretane insulated wallpanel PUR 100 - cut L = 2600 mm, panel width 1000 mm
47-3296-5100-02700	polyuretane insulated wallpanel PUR 100 - cut L = 2700 mm, panel width 1000 mm
47-3296-5100-02800	polyuretane insulated wallpanel PUR 100 - cut L = 2800 mm, panel width 1000 mm
47-3296-5100-02900	polyuretane insulated wallpanel PUR 100 - cut L = 2900 mm, panel width 1000 mm
47-3296-5100-03000	polyuretane insulated wallpanel PUR 100 - cut L = 3000 mm, panel width 1000 mm
47-3296-5100-03100	polyuretane insulated wallpanel PUR 100 - cut L = 3100 mm, panel width 1000 mm
47-3296-5100-03200	polyuretane insulated wallpanel PUR 100 - cut L = 3200 mm, panel width 1000 mm
47-3296-5100-03300	polyuretane insulated wallpanel PUR 100 - cut L = 3300 mm, panel width 1000 mm
47-3296-5100-03400	polyuretane insulated wallpanel PUR 100 - cut L = 3400 mm, panel width 1000 mm
47-3296-5100-03500	polyuretane insulated wallpanel PUR 100 - cut L = 3500 mm, panel width 1000 mm

### Accessories - metal channel

Code	Description
47-3295-50-060U	aluminium white channel, U-type, 40/60/40 mm, L = 2 m
47-3295-50-080U	aluminium white channel, U-type, 40/80/40 mm, L = 2 m
47-3295-50-100U	aluminium white channel, U-type, U 40/100/40 mm, L = 2 m
47-3295-50-120U	aluminium white channel, U-type, 40/120/40 mm, L = 2 m
47-3295-50-150U	aluminium white channel, U-type, 40/150/40 mm, L = 2 m
47-3295-060	metal white channel - straight 60 mm, L = 2,0 m
47-3295-25-060	metal white channel - straight 60 mm, L = 2,5 m
47-3295-100	metal white channel - straight 100 mm, L = 2,0 m
47-3295-25-100	metal white channel - straight 100 mm, L = 2,5 m
47-3295-150	metal white channel - straight 150 mm, L = 2,0m
47-3295-25-150	metal white channel - straight 150 mm, L = 2,5 m

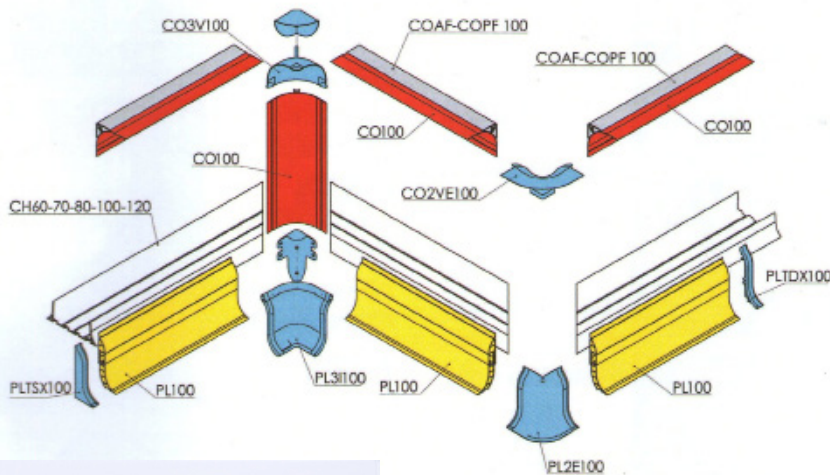


Code	Description
47-3295-040L	metal white channel - external L 40 x 40 mm, L = 2,0 m
47-3295-25-040L	metal white channel - external L 40 x 40 mm, L = 2,5 m
47-3295-100L-2	metal white channel - external L 100 x 100 mm, L = 2,0 m
47-3295-25-100L-2	metal white channel - external L 100 x 100 mm, L = 2,5 m
47-3295-100L	metal white channel - external L 100 x 40 mm, L = 2,0 m
47-3295-25-100L	metal white channel - external L 100 x 40 mm, L = 2,5 m
47-3295-25-120	metal white channel - external L 120 x 40 mm, L = 2,0 m
47-3295-25-120-1	metal white channel - external L 120 x 40 mm, L = 2,5 m
47-3295-150L	metal white channel - external L 150 x 40 mm, L = 2,0 m
47-3295-25-150L	metal white channel - external L 150 x 40 mm, L = 2,5 m
47-3295-200L-2	metal white channel - external L 200 x 200 mm, L = 2,0 m
47-3295-200L	metal white channel - external L 200 x 40 mm, L = 2,0 m
47-3295-25-200L	metal white channel - external L 200 x 40 mm, L = 2,5 m
47-3295-25-220L	metal white channel - external L 220 x 40 mm, L = 2,5 m
47-3295-230L	metal white channel - external L 230 x 40 mm, L = 2,0 m
47-3295-080L	metal white channel - external L 80 x 40 mm, L = 2,0 m
47-3295-040L-1	metal white channel - internal L 40 x 40 mm, L = 2,0 m
47-3295-25-040L-1	metal white channel - internal L 40 x 40 mm, L = 2,5 m
47-3295-100L-1	metal white channel - internal L 100 x 40 mm, L = 2,0 m
47-3295-25-100L-1	metal white channel - internal L 100 x 40 mm, L = 2,5 m
47-3295-150L-1	metal white channel - internal L 150 x 40 mm, L = 2,0 m
47-3295-100U	metal white channel U-type 40/100/40 mm, L = 2,0 m
47-3295-120U	metal white channel U-type 40/120/40 mm, L = 2,0 m
47-3295-150U	metal white channel U-type 40/150/40 mm, L = 2,0 m
47-3295-170U	metal white channel U-type U 40/170/40 mm, L = 2,0 m
47-3295-220U	metal white channel U-type 40/220/40 mm, L = 2,0 m
47-3295-040-U	metal white channel U-type 40/40/40 mm, L = 2,0 m
47-3295-060U	metal white channel U-type 40/60/40 mm, L = 2,0 m
47-3295-080U	metal white channel U-type 40/80/40 mm, L = 2,0 m
47-3295-ALST4012	aluminium rivet - painted AL 4,0 x 12mm (1 package=1000 ks)

### Accessories - plastic channel

Code	Description
47-3296-PLTSX-100	end cap - left, white, RAL 9010
47-3296-PLTDX-100	end cap - right, white, RAL 9010
47-3296-CO3V-100	corner cap PVC H = 100 mm white, RAL 9010
47-3296-CO3V-65	corner cap PVC H = 65 mm white, RAL 9010
47-3296-CO-65	cover strip - corner PVC, H = 65 mm, L = 4 m, white RAL 9010
47-3296-PL-100	hygiene cover strip L = 4 m, white, RAL 9010

Code	Description
47-3296-COAF-100-65	aluminium anchor strip L = 4 m
47-3296-COPF-100-65	anchor strip PVC, L = 4 m, black
47-3295-200U	metal channel white U-type U 40/200/40 mm, L = 2 m
47-3296-CO-100	cover strip - corner PVC, H = 100 mm, L = 4 m, white, RAL 9010
47-3296-CU-060	channel U-type PVC for wallpanels PUR 060, 30x60x30 mm, L = 4 m
47-3296-CU-080	channel U-type PVC for wallpanels PUR 080, 30x80x30 mm, L = 4 m
47-3296-CH100	channel U-type PVC for wallpanels PUR 100 white, L = 4 m, RAL 9010
47-3296-CU-100	channel U-type PVC for wallpanels PUR 100, 30x100x30 mm, L = 4 m
47-3296-CH120	channel U-type PVC for wallpanels PUR 120 white, L = 4 m, RAL 9010
47-3296-CH60	channel U-type PVC for wallpanels PUR 60 white, L = 4 m, RAL 9010
47-3296-PL2E-100	2-way external corner for hygiene strip, white, RAL 9010
47-3296-CO2VE65	external corner for hygiene strip H = 65 mm, white, RAL 9010
47-3296-PL2I-100	2-way internal corner for hygiene strip, white, RAL 9010
47-3296-PL3I-100	3-way internal corner for hygiene strip, white, RAL 9010
47-3296-CO2VE100	internal corne for hygiene strip H = 100 mm, white RAL 9010



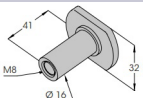
		<b>CU 60</b> Material hard pvc Colour Ral 9010 / 9002 Length 4.000 mm Packing 2 pcs./ bundle
		<b>CU 80</b> Material hard pvc Colour Ral 9010 / 9002 Length 4.000 mm Packing 2 pcs./ bundle
		<b>CU 100</b> Material hard pvc Colour Ral 9010 / 9002 Length 4.000 mm Packing 2 pcs./ bundle

		<b>CH 60</b> Material coextruded pvc Colour Ral 9010 / 9002 Lung. 4.000 mm Packing 2 pcs./ bundle
		<b>CH 70</b> Material coextruded pvc Colour Ral 9010 / 9002 Lung. 4.000 mm Packing 2 pcs./ bundle
		<b>CH 80</b> Material coextruded pvc Colour Ral 9010 / 9002 Lung. 4.000 mm Packing 2 pcs./ bundle
		<b>CH 100</b> Material coextruded pvc Colour Ral 9010 / 9002 Lung. 4.000 mm Packing 2 pcs./ bundle
		<b>CH 120</b> Material coextruded pvc Colour Ral 9010 / 9002 Lung. 4.000 mm Packing 2 pcs./ bundle

Supplier's code	Our code
CU 60	47-3296-CU-060
CU 80	47-3296-CU-080
CU 100	47-3296-CU-100
400CH10040010	47-3296-CH100
400CH12040010	47-3296-CH120
400CH6040010	47-3296-CH60



**Other accessories**

Code	Description	Picture
47-32962-BEST80	end bumper BE80	
47-32961-TH	threaded rod cover, Ral 9010	
47-32961-TM5	threaded rod cover, Ral 9010	
47-32961-TM12	threaded rod cover, Ral 9010, d = 20 mm	
47-32962-BEC80	bumper cover strip BE80	
47-32961-M12	fixing plastic nut M12	
47-32961-M12H	fixing plastic nut M12, with a hole	
47-32961-M12-1	plastic nut M12	
47-32962-BE80	flexible plastic bumper, 80 mm, RAL 9006,	
47-32961-R60	fixing plastic washer = 60 mm	
47-32961-R90	fixing plastic washer d = 90 mm	
47-32961-RON12	plastic washer d = 33 mm	
47-32962-BEJ80	bumper connector BE80	
47-32961-ROD-M12	plastic threaded rod M12, L = 500 mm	

### Floors for boxes

Code	Description
47-3296-A0-12	nonskid waterproof plywood, h = 12 mm, 1250 x 2500 mm
47-3296-A0-15	nonskid waterproof plywood, h = 15 mm, 1250 x 2500 mm
47-3296-A0-18	nonskid waterproof plywood, h = 18 mm, 1250 x 2500 mm
47-3296-A0-24	nonskid waterproof plywood, h = 24 mm, 1250 x 2500 mm
47-3296-A0-27	nonskid waterproof plywood, h = 27 mm, 1250 x 2500 mm
47-3296-AL2	walkable diamond floorplate AL - 2 mm, 1000 x 2000 mm
47-3296-AL3	walkable diamond floorplate AL - 3 mm, 1000 x 2000 mm

### Cold storage hinged door

### SEVEN FRIGO

Code	Type	Dimensions [mm]
<b>Seven frigo</b>		
47-32980-0700-1900L	without threshold PUR 60	700 x 1900
47-32980-0700-1900P	without threshold PUR 60	700 x 1900
47-32980-0700-2000L	without threshold PUR 60	700 x 2000
47-32980-0700-2000P	without threshold PUR 60	700 x 2000
47-32980-0800-1800L	without threshold PUR 60	800 x 1800
47-32980-0800-1900L	without threshold PUR 60	800 x 1900
47-32980-0800-1900P	without threshold PUR 60	800 x 1900
47-32980-0800-2000L	without threshold PUR 60	800 x 2000
47-32980-0800-2000P	without threshold PUR 60	800 x 2000
47-32980-0900-1800L	without threshold PUR 60	900 x 1800
47-32980-0900-1800P	without threshold PUR 60	900 x 1800
47-32980-0900-1900L	without threshold PUR 60	900 x 1900
47-32980-0900-1900P	without threshold PUR 60	900 x 1900
47-32980-0900-2000L	without threshold PUR 60	900 x 2000
47-32980-0900-2000P	without threshold PUR 60	900 x 2000
47-32980-1000-2000L	without threshold PUR 60	1000 x 2000
47-32980-1000-2000P	without threshold PUR 60	1000 x 2000
47-32980-1200-2000L	without threshold PUR 60	1200 x 2000
47-32980-1200-2000P	without threshold PUR 60	1200 x 2000
47-32980-0700-2000LP	with threshold PUR 60	700 x 2000
47-32980-0700-2000PP	with threshold PUR 60	700 x 2000
47-32980-0800-1900LP	with threshold PUR 60	800 x 1900
47-32980-0800-1900PP	with threshold PUR 60	800 x 1900
47-32980-0800-2000LP	with threshold PUR 60	800 x 2000
47-32980-0800-2000PP	with threshold PUR 60	800 x 2000
47-32980-0900-2000LP	with threshold PUR 60	900 x 2000
47-32980-0900-2000PP	with threshold PUR 60	900 x 2000
47-32980-1000-2000LP	with threshold PUR 60	1000 x 2000

Code	Type	Dimensions [mm]
<b>Seven frigo</b>		
47-32980-1000-2000PP	with threshold PUR 60	1000 x 2000
47-32980-1200-2000LP	with threshold PUR 60	1200 x 2000
47-32980-1200-2000PP	with threshold PUR 60	1200 x 2000
<b>MTH</b>		
47-32981-600-1900L	without threshold PUR 60	600 x 1900
47-32981-600-1900P	without threshold PUR 60	600 x 1900
47-32981-700-1800P	without threshold PUR 60	700 x 1800
47-32981-700-1900L	without threshold PUR 60	700 x 1900
47-32981-700-1900P	without threshold PUR 60	700 x 1900
47-32981-750-1900P	without threshold PUR 60	750 x 1900
47-32981-800-1700P	without threshold PUR 60	800 x 1700
47-32981-800-1750P	without threshold PUR 60	800 x 1750
47-32981-800-1900L	without threshold PUR 60	800 x 1900
47-32981-800-1900P	without threshold PUR 60	800 x 1900
47-32981-800-2000L	without threshold PUR 60	800 x 2000
47-32981-800-2000P	without threshold PUR 60	800 x 2000

**Freezer  
hinged door**
**SEVEN FRIGO**

Code	Type	Dimensions [mm]
<b>Seven frigo</b>		
47-32985-0700-1900L	with threshold PUR 100	700 x 1900
47-32985-0700-1900P	with threshold PUR 100	700 x 1900
47-32985-0700-2000L	with threshold PUR 100	700 x 2000
47-32985-0700-2000P	with threshold PUR 100	700 x 2000
47-32985-0800-2000L	with threshold PUR 100	800 x 2000
47-32985-0800-2000P	with threshold PUR 100	800 x 2000
47-32985-0900-2000L	with threshold PUR 100	900 x 2000
47-32985-0900-2000P	with threshold PUR 100	900 x 2000
47-32985-1000-2000L	with threshold PUR 100	1000 x 2000
47-32985-1000-2000P	with threshold PUR 100	1000 x 2000
47-32985-1200-2000L	with threshold PUR 100	1200 x 2000
47-32985-1200-2000P	with threshold PUR 100	1200 x 2000
47-32986-0900-2000L	with threshold PUR 120	900 x 2000
47-32986-0900-2000P	with threshold PUR 120	900 x 2000
47-32986-1000-2000L	with threshold PUR 120	1000 x 2000
47-32986-1000-2000P	with threshold PUR 120	1000 x 2000

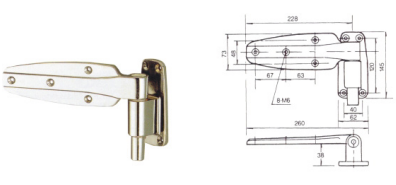
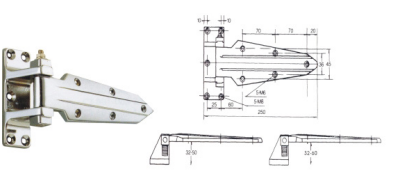
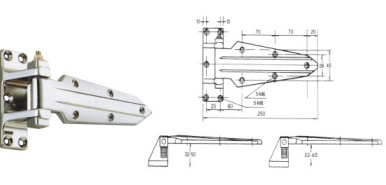
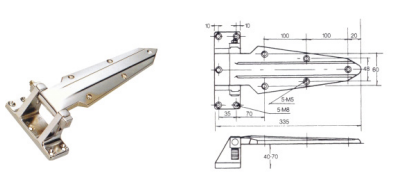
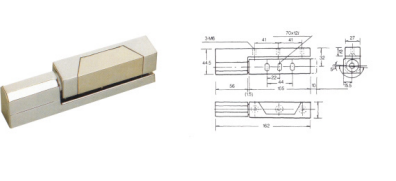
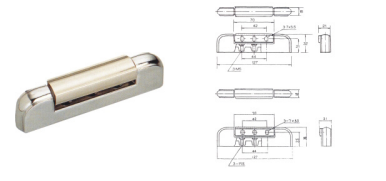
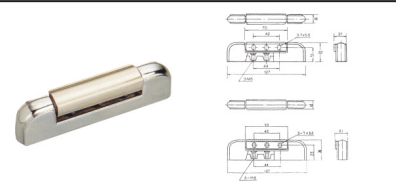


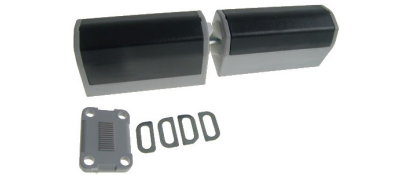



Door frames can be expanded via profiles see page 350

Metal / plastic handles

Universal

<p>47-323832-2200</p>	<p>47-323832-2201</p>	<p>47-323832-2202</p>
<p>47-323832-2203</p>	<p>47-32987-00</p>	<p>47-32987-01</p>
<p>47-32987-02</p>	<p>47-32987-03</p>	
<p>47-32987-10</p>	<p>47-32987-11</p>	<p>47-32987-12</p>
<p>57/72 mm</p>	<p>72/87 mm</p>	<p>87/102 mm</p>

**Metal / plastic hinges**
**Universal**

<p><b>47-323832-2204</b></p> 	<p><b>47-323832-2205</b></p> 	<p><b>47-323832-2206</b></p> 
<p><b>47-323832-2207</b></p> 	<p><b>47-323832-2208</b></p> 	<p><b>47-323832-2209</b></p> 
<p><b>47-323832-2210</b></p> 	<p><b>47-32987-40</b></p> 	<p><b>47-32987-41</b></p> 
<p><b>47-32987-42</b></p> 	<p><b>47-32987-43</b></p> 	<p><b>47-32987-44</b></p> 
<p><b>47-32987-46</b></p> 		

**Compensation valve**

Code	Description
47-3296-CO-001	compensation valve Mini Elebar, 7W, 220V
47-3296-CO-002	compensation valve Elebar, 16W, 220V
47-3296-CO-003	compensation valve Maxi Elebar, 36W, 220V

### Other accessories



Code	Description
47-3298-1200-03-03200	PVC profile 20 mm
47-3298-1200-03-03250	PVC profile 30 mm
47-3298-1200-03-03300	PVC profile 40 mm
47-32987-13	handle spacer, thickness of the door leaf 102/130 mm
47-32987-20	mounting accessories - thickness of the door leaf 50/69 mm
47-32987-21	mounting accessories - thickness of the door leaf 70/89 mm
47-32987-22	mounting accessories - thickness of the door leaf 90/109 mm
47-32987-23	mounting accessories - thickness of the door leaf 110/129 mm
47-32987-30	door gasket
47-32987-45	connecting rod for fastener, 146mm, 13068 (for door leaf 60 and 80 mm)
47-3298-XXX-ZASLEPKA	threshold blanking - profile PVC, 2 pcs

### Strip curtains


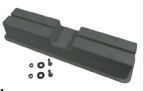
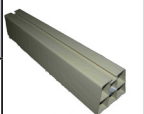



Code	Description
47-3299-00	strip curtain - roll, 200 x 2,0 mm, - 40 °C (sale in meters)
47-3299-01	strip curtain, 200 x 2,7 mm, L = 50 m, - 15 °C
47-3299-02	strip curtain, 200 x 3,0 mm, L = 50 m, - 40 °C
47-3299-10	rail for curtain, L = 1 m
47-3299-20	clips for curtain, L = 20 cm
47-32988-0720-1900	complete strip curtain PVC for door dimension 720 x 1900 mm + strip
47-32988-0800-1800	complete strip curtain PVC for door dimension 800 x 1800 mm + strip
47-32988-0800-2000	complete strip curtain PVC for door dimension 800 x 2000 mm + strip
47-32988-0800-2100	complete strip curtain PVC for door dimension 800 x 2100 mm + strip
47-32988-0900-1900	complete strip curtain PVC for door dimension 900 x 1900 mm + strip
47-32988-0900-2000	complete strip curtain PVC for door dimension 900 x 2000 mm + strip
47-32988-0930-2080	complete strip curtain PVC for door dimension 930 x 2080 mm, COLD
47-32988-1000-2000	complete strip curtain PVC for door dimension 1000 x 2000 mm + strip
47-32988-1000-2100	complete strip curtain PVC for door dimension 1000 x 2100 mm + strip
47-32988-1000-2200	complete strip curtain PVC for door dimension 1000 x 2200 mm + strip
47-32988-1200-2000-M	complete strip curtain PVC for door dimension 1200 x 2000 mm + strip
47-32988-1200-2100	complete strip curtain PVC for door dimension 1200 x 2100 mm + strip
47-32988-1300-2200	complete strip curtain PVC for door dimension 1300 x 2200 mm + strip
47-32988-1500-2000	complete strip curtain PVC for door dimension 1500 x 2000 mm + strip
47-32988-1500-2300	complete strip curtain PVC for door dimension 1500 x 2300 mm + strip
47-32988-1550-2550	complete strip curtain PVC for door dimension 1550 x 2550 mm + strip
47-32988-1930-2190	complete strip curtain PVC for door dimension 1930 x 2190 mm + strip
47-32988-2100-2800-300	complete strip curtain PVC for door dimension 2100 x 2800 mm + strip
47-32988-2300-2500	complete strip curtain PVC for door dimension 2300 x 2500 mm + strip

**Accessories for outdoor  
air conditioning units**

Code	Description	Picture
<b>welded bracket</b>		
47-3285-09-0533	welded bracket L=500 mm, H=500 mm, profile 30 x 30 mm	
47-3285-09-0633	welded bracket L=600 mm, H=600 mm, profile 30 x 30 mm	
47-3285-09-0653	welded bracket L=600 mm, H=600 mm, profile 50 x 30 mm	
47-3285-09-0733	welded bracket L=700 mm, H=700 mm, profile 30 x 30 mm	
47-3285-09-0753	welded bracket L=700 mm, H=700 mm, profile 50 x 30 mm	
47-3285-09-0853	welded bracket L=800 mm, H=800 mm, profile 50 x 30 mm	
47-3285-10-1401	welded bracket L=320 mm, H=315 mm, loading capacity 140 kg, white	
47-3285-10-1402	welded bracket L=420 mm, H=315 mm, loading capacity 140 kg, white	
47-3285-10-1403	welded bracket L=520 mm, H=420 mm, loading capacity 140 kg, white	
47-3285-10-1500	welded bracket L=750 mm, H=500 mm, loading capacity 140 kg, white	
47-3285-10-1501	welded bracket L=500 mm, H=500 mm, loading capacity 150 kg, white	
47-3285-10-1600	welded bracket L=620 mm, H=400 mm, loading capacity 160 kg, white	
47-3285-10-1601	welded bracket L=1100 mm, H=550 mm, loading capacity 160 kg, white	
47-3285-10-1800	welded bracket L=400 mm, H=400 mm, loading capacity 180 kg, white	
47-3285-10-1801	welded bracket L=450 mm, H=450 mm, loading capacity 180 kg, white	
47-3285-10-1802	welded bracket L=800 mm, H=520 mm, loading capacity 180 kg, white	
47-3285-10-2000	welded bracket L=400 mm, H=770 mm, zinc plated	
47-3285-10-1404G	welded bracket L=620 mm, H=400 mm, loading capacity 140 kg, zinc plated	
47-3285-10-2200	welded bracket L=800 mm, H=500 mm, loading capacity 220 kg, white	
47-3285-10-3000	welded bracket L=620 mm, H=400 mm, loading capacity 300 kg, white	
47-3285-10-3001	welded bracket L=1200 mm, H=700 mm, loading capacity 300 kg, white	
47-3285-10-4000	welded bracket L=1400 mm, H=800 mm, loading capacity 400 kg, white	
<b>premounted bracket</b>		
47-3285-11-0700	premounted bracket L=380 mm, H=400 mm, loading capacity 70 kg, white	
47-3285-11-0701	premounted bracket L=470 mm, H=400 mm, loading capacity 70 kg, white	
47-3285-11-0702	premounted bracket L=470 mm, H=400 mm, loading capacity 70 kg, inox	
47-3285-11-1000	premounted bracket L=450 mm, H=360 mm, loading capacity 100 kg, white	
47-3285-11-1001	premounted bracket L=500 mm, H=360 mm, loading capacity 100 kg, white	
47-3285-11-1201	premounted bracket L=470 mm, H=400 mm, loading capacity 120 kg, white	

Code	Description	Picture
<b>premounted bracket</b>		
47-3285-11-1202	premounted bracket L=420 mm, H=375 mm, loading capacity 100 kg, white	
47-3285-11-1400	premounted bracket L=465 mm, H=375 mm, loading capacity 140 kg, white	
47-3285-11-1401IX	premounted bracket L=520 mm, H=400 mm, loading capacity 140 kg, inox	
47-3285-11-1500	premounted bracket L=520 mm, H=400 mm, loading capacity 150 kg, white	
47-3285-11-1501	premounted bracket L=600 mm, H=400 mm, loading capacity 150 kg, white	
47-3285-11-2000	premounted bracket L=550 mm, H=375 mm, loading capacity 200 kg, white	
47-3285-11-2500	premounted bracket L=500 mm, H=500 mm, loading capacity 250 kg, white	
47-3285-11-2501	premounted bracket L=600 mm, H=500 mm, loading capacity 250 kg, white	
<b>premounted roof bracket</b>		
47-3285-11-5000	regular roof bracket, 80 kg, for skew roofs	
47-3285-11-5001	regular roof bracket, 200 kg, for flat roofs	
47-3285-11-5002	regular roof bracket, 180 kg, for flat roofs	













Code	Description	Picture
<b>adjustable brackets</b>		
47-3285-11-0703	adjustable brackets with level L=380 mm, H=400 mm, P=800 mm, loading capacity 70kg, white	
47-3285-11-0704	adjustable brackets with level L=470 mm, H=400 mm, P=800 mm, loading capacity 70kg, white	
47-3285-11-0905	adjustable brackets L=530 mm, H=400 mm, P=800 mm, loading capacity 90kg, white	
47-3285-11-0951	adjustable brackets L=420 mm, H=375 mm, P=800 mm, loading capacity 120kg, white	
47-3285-11-0952	adjustable brackets L=465 mm, H=375 mm, P=800 mm, loading capacity 140kg, white	
47-3285-11-0953	adjustable brackets L=550 mm, H=375 mm, P=800 mm, loading capacity 140 kg, white	
47-3285-11-0990IX	adjustable brackets L=465 mm, H=375 mm, P=800 mm, loading capacity 140kg, white	
47-3285-11-1503	adjustable brackets L=560 mm, H=400 mm, P=1000 mm, loading capacity 150 kg, white	
47-3285-11-1504	adjustable brackets L=600 mm, H=400 mm, P=1000 mm, loading capacity 150 kg, white	
47-3285-11-1506	adjustable brackets L=450 mm, H=360 mm, P=800 mm, loading capacity 150 kg, white	
47-3285-11-1507	adjustable brackets L=625 mm, H=500 mm, P=1000 mm, loading capacity 250 kg, white	
<b>ground supports + accessories</b>		
47-3285-12-00	polypropylene ground support L= 420 mm, H=72 mm, loading capacity 140 kg, white	
47-3285-12-01	polypropylene ground support, L=420 mm, H=72 mm, loading capacity 120 kg, black	
47-3285-12-02	PVC ground support L=450 mm, H=80 mm, loading capacity 140 kg, white	
47-3285-12-04	PVC ground support L=1000 mm, H=80 mm, loading capacity 140 kg white	
47-3285-12-03	PVC ground support L=450 mm, H=80 mm, loading capacity 140 kg, black	
47-3285-12-05	PVC ground support L=1000 mm, H=80 mm, loading capacity 140 kg, black	
47-3285-12-06	ground support, L=520 mm, H=300 mm, loading capacity 140 kg, white	
47-3285-12-12	ground support (2 pcs), L=425 mm, H=300 mm, loading capacity 140 kg, white	

Code	Description	Picture
<b>ground supports + accessories</b>		
47-3285-12-20	adjustable base block, d=100 mm, H=90/140 mm, white, 3000 kg	
47-3285-12-21	adjustable base block, d=100 mm, H=90/140 mm, gray, 3000 kg	
47-3285-12-22	adjustable base block, d=100 mm, H=90/140 mm, black, 3000 kg	
47-3285-12-10	closing cap for ground support - white	
47-3285-12-11	closing cap for ground support - black	
47-3285-12-23	supporting base, white	
47-3285-12-24	supporting base, gray	
47-3285-12-25	supporting base, black	
47-3285-12-26	spanner for base block	
<b>vibration dampers</b>		
47-3285-13-00	strong cone - shaped vibration dampers - set 35 x 50 mm, M = 85 kg	
47-3285-13-01	standard cone - shaped vibration dampers - set 22 x 39 mm, M = 50 kg	
47-3285-13-02	vibration dampers - set 30 x 22 mm, M = 50 kg	
47-3285-13-03	vibration dampers - set 40 x 40 mm, M = 100 kg	

Code	Description	Picture
<b>vibration dampers</b>		
47-3285-13-05	coned shape ground dampers - set 56 x 20 mm, M = 130 kg	
47-3285-13-06	coned shape ground dampers - set 48 x 20 mm, M = 90 kg	
47-3285-13-07	ground dampers - set 40 x 40 mm, M = 100 kg	
47-3285-13-08	vibration dampers - set 44 x 47-32mm, M = 150 kg	
47-3285-13-09	vibration dampers - set 47-32x 38 mm, M = 150 kg	
47-3285-13-10	high load capacity vibration dampers - set, M = 300 kg	
<b>trays for condensation water</b>		
47-3285-15-00	tray for condensation water, 790 x 390 x 30 mm, plastic	
47-3285-15-01	tray for condensation water, 940 x 420 x 30 mm, plastic	
47-3285-15-02	tray for condensation water, 790 x 390 x 30 mm, metal	
47-3285-15-03	tray for condensation water, 940 x 420 x 30 mm, metal	
<b>others</b>		
47-3285-14-00	instalation materials (plugs and screws), set	

### Accessories for indoor air conditioning units



Code	Description	Picture
47-3285-17-01	PVC drain hose d = 16 mm (package 25 m)	
47-3285-17-02	PVC drain hose d = 16/18 mm (package 50 m)	
47-3285-17-03	PVC drain hose d = 18 mm (package 25 m)	
47-3285-17-04	PVC drain hose d = 6 mm (package 50 m)	
47-3285-17-05	PVC drain hose d = 20 mm (package 25 m)	
47-3285-17-06	PVC drain hose d= 18/20 mm (package 50 m)	
47-3285-17-40	condensate waste d=19 mm	
47-3285-17-41	condesate waste d=47-32mm	
47-3285-17-42	condensate waste d=20 mm, vertical	
47-3285-17-43	condensate waste d=25 mm, vertical	
47-3285-17-44	condensate waste d=20 mm, horizontal	
47-3285-17-45	condensate waste d=25 mm, horizontal	
47-3285-17-50	Y connector for coiled hoses, d = 16 mm	
47-3285-17-51	Y connector for coiled hoses, d = 20 mm	
47-3285-17-60	connector for coiled hoses, d = 16 mm	
47-3285-17-61	connector for coiled hoses, d = 20 mm	
47-3285-17-62	reducing connector for coiled hoses, d=20/16 mm	
47-32MS209Y	3-way Y connector, d=16/18/20 mm	
47-3285-17-70	3-way Y connector, d=16/18 mm	
47-3285-17-71	3-way Y connector, d=18/20 mm	
47-3285-17-72	3-way T connector, d=16/18 mm	
47-3285-17-73	3-way T connector, d=18/20 mm	
47-3285-17-80	connector for coiled hoses, d = 16 mm	
47-3285-17-81	connector for coiled hoses, d = 20 mm	
47-3285-20-00	duct for pipe with upper cover, 90x65x2000 mm, self-extinguishing PVC	 säkka 2 m
47-3285-20-01	duct for pipe with upper cover, 125x75x2000 mm, self-extinguishing PVC	
47-3285-20-02	duct for pipe with upper cover, 65x50x2000 mm, self-extinguishing PVC	

Code	Description	Picture
47-3285-20-50	flexible joint 90x65 mm, white, self-extinguishing PVC	
47-3285-20-51	flexible joint 125x75 mm, white, self-extinguishing PVC	
47-3285-20-52	flexible joint 65x50 mm, white, self-extinguishing PVC	
47-3285-21-00	upper connector 90x65 mm, self-extinguishing PVC, white	
47-3285-21-01	upper connector 125x75 mm, self-extinguishing PVC, white	
47-3285-21-02	upper connector 65x50 mm, self-extinguishing PVC, white	
47-3285-21-10	tightening clamp - internal 90x65 mm	
47-3285-21-11	tightening clamp - internal 125x75 mm	
47-3285-21-12	tightening clamp - internal 65x50 mm	
47-3285-21-20	upper connector with seal 90x65 mm, self-extinguishing PVC, white	
47-3285-21-22	upper connector with seal 65x50 mm, self-extinguishing PVC, white	
47-3285-22-00	90° internal elbow 90x65 mm, white	
47-3285-22-01	90° internal elbow 125x75 mm, white	
47-3285-22-02	90° internal elbow 65x50 mm, white	
47-3285-23-00	90° external elbow 90x65 mm, white	
47-3285-23-01	90° external elbow 125x75 mm, white	
47-3285-23-02	90° external elbow 65x50 mm, white	
47-3285-24-00	90° flat bend 90x65 mm, white	
47-3285-24-01	90° flat bend 125x75 mm, white	
47-3285-24-02	90° flat bend 65x50 mm, white	
47-3285-25-00	end terminal 90x65 mm, white	
47-3285-25-01	end terminal 125x75 mm, white	
47-3285-25-02	end terminal 65x50 mm, white	
47-3285-26-00	wall bend 90x65 mm, white	
47-3285-26-01	wall bend 125x75 mm, white	
47-3285-26-02	wall bend 65x50 mm, white	
47-3285-27-00	wall duct 90x65 mm, white	
47-3285-27-01	wall duct 125x75 mm, white	
47-3285-27-02	wall duct 65x50 mm, white	





Code	Description	Picture
47-3285-28-00	T joint 90x65 mm, white	
47-3285-28-01	T joint 125x75 mm, white	
47-3285-28-02	T joint 65x50 mm, white	
47-3285-29-00	reduction for joining ducts of different sizes 90-125 mm, white	
47-3285-29-01	reduction for joining ducts of different sizes 90-65 mm, white	
47-3285-30-00	embedded box, 380 x 120 x 55 mm, Freebox	
47-3285-30-01	embedded box, 430 x 110 x 65 mm, Simple	
47-3285-30-02	embedded box, 485 x 125 x 60 mm, Universal	
47-3285-30-03	embedded box, 430 x 110 x 65 mm, Multibox	
47-3285-30-04	embedded box, 430 x 130 x 65 mm, Climabox	
47-327700-00	rubber insulating tape - adhesive, 3 x 50 mm, L=10 m, universal	
47-327780-00	aluminium insulating tape 10 m, smooth	
47-327780-01	aluminium insulating tape 10 m, square pattern	

**Accessories for air conditioning units - plastic pipe**






Code	Description	Picture
47-3285-31650	universal glue PVC-U / PVC-C	
47-3285-31652	surface cleaner, 125ml	
47-3285-400-005	thick-walled tube 1/2" PVC-U (SCH 40) - 3 m	
47-3285-400-007	thick-walled tube 3/4" PVC-U (SCH 40) - 3 m	
47-3285-400-010	thick-walled tube 1" PVC-U (SCH 40) - 3 m	
47-3285-401-005	T connector 1/2" PVC-U (SCH.40)	
47-3285-401-007	T connector 3/4" PVC-U (SCH.40)	
47-3285-401-010	T connector 1" PVC-U (SCH.40)	
47-3285-406-005	bend 90° - 1/2" PVC-U (SCH 40)	
47-3285-406-007	bend 90° - 3/4" PVC-U (SCH 40)	
47-3285-406-010	bend 90° - 1" PVC-U (SCH 40)	
47-3285-417-005	bend 45° - 1/2" PVC-U (SCH 40)	
47-3285-417-007	bend 45° - 3/4" PVC-U (SCH 40)	
47-3285-417-010	bend 45° - 1" PVC-U (SCH 40)	
47-3285-429-005	coupling 1/2" PVC-U (SCH.40)	
47-3285-429-007	coupling 3/4" PVC-U (SCH.40)	
47-3285-429-010	coupling 1" PVC-U (SCH.40)	
47-3285-437-101	reducer 3/4" x 1/2" PVC-U (SCH.40)	
47-3285-437-130	reducer 1" x 1/2" PVC-U (SCH.40)	
47-3285-437-131	reducer 1" x 3/4" PVC-U (SCH.40)	
47-3286-4700-005	pipe PVC-C 1/2" (length 3m) - use for hot water	
47-3286-4701-005	coupling PVC-C 1/2" (S/S) - use for hot water	
47-3286-4706-005	bend PVC-C 45°, 1/2" (S/S) - use for hot water	

Code	Description	Picture
47-3286-4707-005	bend PVC-C 90°, 1/2" (S/S) - use for hot water	
47-3286-4711-005	T connector PVC-C 1/2" (S/S/S) - use for hot water	

### Accessories for air conditioning units - drain pipe

Code	Description	Picture
47-857181-032-0150	drain pipe HT, d = 47-32mm, L = 150 mm	
47-857181-032-0250	drain pipe HT, d = 47-32mm, L = 250 mm	
47-857181-032-0500	drain pipe HT, d = 47-32mm, L = 500 mm	
47-857181-032-1000	drain pipe HT, d = 47-32mm, L = 1000 mm	
47-857181-032-2000	drain pipe HT, d = 47-32mm, L = 2000 mm	
47-857181-040-0150	drain pipe HT, d = 40 mm, L = 150 mm	
47-857181-040-0250	drain pipe HT, d = 40 mm, L = 250 mm	
47-857181-040-0500	drain pipe HT, d = 40 mm, L = 500 mm	
47-857181-040-1000	drain pipe HT, d = 40 mm, L = 1000 mm	
47-857181-040-1500	drain pipe HT, d = 40 mm, L = 1500 mm	
47-857181-040-2000	drain pipe HT, d = 40 mm, L = 2000 mm	
47-857281-032-15	bend HT, 47-32mm / 15°	
47-857281-032-30	bend HT, 47-32mm / 30°	
47-857281-032-45	bend HT, 47-32mm / 45°	
47-857281-032-67	bend HT, 47-32mm / 67°	
47-857281-032-87	bend HT, 47-32mm / 87°	
47-857281-040-15	bend HT, 40 mm / 15°	
47-857281-040-30	bend HT, 40 mm / 30°	
47-857281-040-45	bend HT, 40 mm / 45°	
47-857281-040-67	bend HT, 40 mm / 67°	
47-857281-040-87	bend HT, 40 mm / 87°	
47-857282-040-032	reducer HT, 40 x 32 mm	



Code	Description	Picture
47-857283-032-032-45	branch 45° HT, 32 x 32 mm	
47-857283-032-032-67	branch 67° HT, 32 x 32 mm	
47-857283-032-032-87	branch 87° HT, 32 x 32 mm	
47-857283-040-040-45	branch 45° HT, 40 x 40 mm	
47-857283-040-040-67	branch 67° HT, 40 x 40 mm	
47-857283-040-040-87	branch 87° HT, 40 x 40 mm	
47-8572861-032	sleeve socket HT, d = 47-32mm	
47-8572861-040	sleeve socket HT, d = 40 mm	
47-8572862-032	end cap HT, d = 32 mm	
47-8572862-040	end cap HT, d = 40 mm	
47-857289-0250	assembly lubricant 250g (KG, HT)	

### Nylon straps

Code	Description
47-301002-10	nylon strap mm 100-2,5
47-301002-11	nylon strap mm 160-2,5
47-301002-15	nylon strap mm 190-4,8
47-301002-12	nylon strap mm 200-3,6
47-301002-17	nylon strap mm 292-3,6
47-301002-13	nylon strap mm 300-3,5
47-301002-14	nylon strap mm 370-3,5
47-301002-16	nylon strap mm 370-3,6

**Condensate  
removal pump****Aspen**

Code	Type	Power supply	Max. flow [l/h]
47-325430-01	Mini Orange (FP2212)	230 V, 16 W	12
47-325430-02	Mini Lime (FP1500)	230 V, 15 W	12
47-325430-03	Maxi Orange (FP2210)	230 V, 15 W	35
47-325430-04	Mini Aqua (FP2406/2)	230 V, 16 W	12
47-325430-05	Hi-Flow 1L (FP2096/2)	230 V	288
47-325430-06	Hi-Flow 2L (FP2122/2)	230 V	288
47-325430-07	Hi-Lift 1L (FP2099/2)	230 V	11
47-325430-08	Hi-Lift 2L (FP2071/2)	230 V	11
47-325430-09	Mini Blanc (FP1080)	230 V, 16 W	12
47-325430-10	Universal (FP2082/2)	230 V	6,5
47-325430-11	Mini Tank (FP1056/2)	230 V, 16 W	35
47-325430-12	Heavy Duty 6m (FP2074/2)	230 V	900
47-325430-14	Hot Water Economy (FP2092)	230 V	900
47-325430-20	Standard (FP2081/2)	230 V	6,5
47-325430-30	ERRP (FP2318)	230 V	225
47-325430-31	Low Profile ERRP (FP2597)	230 V	190
47-325430-32	Macerator 4L (FP2305)	230 V	780
47-325430-33	Macerator 10L (FP2307)	230 V	780
47-325430-S12	Silent+ Mini Lime (FP3312)	230 V, 15 W	12
47-325430-S13	Silent+ Mini Orange (FP3313)	230 V, 16 W	10
47-325430-S26	Silent+ Mini Aqua (FP2406/2)	230 V, 16 W	12

Code	Type	Sound level [dBA @1m]	Max. rec. head [m]	Dimension [mm] l x w x h
47-325430-01	Mini Orange (FP2212)	23	10	116 x 39 x 51
47-325430-02	Mini Lime (FP1500)	23	10	99 x 44 x 114
47-325430-03	Maxi Orange (FP2210)	35	15	122 x 44 x 66
47-325430-04	Mini Aqua (FP2406/2)	21	10	183 x 28 x 28
47-325430-05	Hi-Flow 1L (FP2096/2)	55	5	244 x 148 x 132
47-325430-06	Hi-Flow 2L (FP2122/2)	55	4	244 x 148 x 164
47-325430-07	Hi-Lift 1L (FP2099/2)	51	12	244 x 148 x 132
47-325430-08	Hi-Lift 2L (FP2071/2)	51	12	244 x 148 x 164
47-325430-09	Mini Blanc (FP1080)	21	10	182 x 55 x 115
47-325430-10	Universal (FP2082/2)	47	12	135 x 77 x 115
47-325430-11	Mini Tank (FP1056/2)	35	15	210 x 89 x 69
47-325430-12	Heavy Duty 6m (FP2074/2)	60	6	300 x 150 x 205
47-325430-14	Hot Water Economy (FP2092)	60	6	300 x 150 x 205
47-325430-20	Standard (FP2081/2)	47	12	135 x 77 x 115
47-325430-30	ERRP (FP2318)	60	35	590 x 100 x 405
47-325430-31	Low Profile ERRP (FP2597)	60	21	530 x 75 x 240
47-325430-32	Macerator 4L (FP2305)	64	8,5	335 x 150 x 230
47-325430-33	Macerator 10L (FP2307)	64	8,5	335 x 310 x 230
47-325430-S12	Silent+ Mini Lime (FP3312)	21	10	99 x 44 x 114
47-325430-S13	Silent+ Mini Orange (FP3313)	19	10	116 x 39 x 51
47-325430-S26	Silent+ Mini Aqua (FP2406/2)	19	8	183 x 28 x 34

<p>47-325430-01</p> 	<p>47-325430-02</p> 	<p>47-325430-03</p> 	<p>47-325430-04</p> 
<p>47-325430-05</p> 	<p>47-325430-06</p> 	<p>47-325430-07</p> 	<p>47-325430-08</p> 
<p>47-325430-09</p> 	<p>47-325430-10</p> 	<p>47-325430-11</p> 	<p>47-325430-12</p> 
<p>47-325430-14</p> 	<p>47-325430-20</p> 	<p>47-325430-30</p> 	<p>47-325430-31</p> 
<p>47-325430-32</p> 	<p>47-325430-33</p> 	<p>47-325430-S12</p> 	<p>47-325430-S13</p> 
<p>47-325430-S26</p> 			

**Accessories for condensate removal pumps**

Aspen

Code	Description
47-325430-91	Mini Orange replacement, 230 V, 12 l/h, sound level 21 [dBA], max. rec. head 10 [m], dimension 116 x 39 x 51 [mm]
47-325430-92	Mini Lime replacement, 230 V, 12 l/h, sound level 23 [dBA], max. rec. head 10 [m], dimension 99 x 44 x 114 [mm]
47-326720-90	anti bacterial tablets Aspen - 50 pcs
47-3285-17-10	hose for peristaltic condensate removal pumps Aspen FP1282
47-3285-18-00	non-return valve Aspen FP2628, 5 pcs
47-3285-18-01	non-return valve Aspen FP2630, 5 pcs
47-3285-18-10	adaptor / straight connector 6, 10, 12 mm x 16 mm, Aspen FP2632, 5 pcs
47-3285-18-11	adaptor / straight connector 6 x 10 mm, Aspen FP2020, 5 pcs
47-3285-19-02	pipe clamp Aspen - metal hanger - 2, 10 pcs
47-3285-19-03	pipe clamp Aspen - metal hanger - 3, 10 pcs
47-3285-19-04	pipe clamp Aspen - metal hanger - 4, 10 pcs
47-3285-19-11	pipe clamp Aspen - grip lock - 1, 10 pcs
47-3285-19-12	pipe clamp Aspen - grip lock - 2, 10 pcs
47-3285-19-13	pipe clamp Aspen - grip lock - 3, 10 pcs
47-3285-19-14	pipe clamp Aspen - grip lock - 4, 10 pcs



**Condensate removal pumps**

Sauermann

Code	Type	Power supply	Max flow [l/h]
47-325440-SI2100	Sauermann Si2100	230 V, 18 W	10
47-325440-SI2750	Sauermann Si2750	230 V, 18 W	10
47-325440-SI3100	Sauermann Si3100	230 V, 18 W	10
47-325440-SI10	Sauermann Si10	230 V, 14 W	20
47-325440-SI30	Sauermann Si30	230 V, 14 W	20
47-325440-SI33	Sauermann Si33	230 V, 22 W	30
47-325440-SI82	Sauermann Si82	230 V, 70 W	500
47-325440-SI93	Sauermann Si93	230 V, 60 W	360

Code	Type	Sound level [dBA]	Max. rec. head [m]	Dimension [mm] l x w x h
47-325440-SI2100	Sauermann Si2100	32	6	85 x 42 x 55
47-325440-SI2750	Sauermann Si2750	32	6	16 x 38 x 76
47-325440-SI3100	Sauermann Si3100	30	6	66 x 44 x 59
47-325440-SI10	Sauermann Si10	23	10	96 x 44 x 76
47-325440-SI30	Sauermann Si30	20	10	86 x 43,5 x 60
47-325440-SI33	Sauermann Si33	34	13	86 x 43,5 x 60
47-325440-SI82	Sauermann Si82	45	5	279 x 130 x 174,5
47-325440-SI93	Sauermann Si93	60	20	366 x 112 x 89

47-325440-SI2100	47-325440-SI2750	47-325440-SI3100	47-325440-SI10
			
47-325440-SI30	47-325440-SI33	47-325440-SI82	47-325440-SI93
			

## KAISAI

Series	Model	Description	Model designation
KAISAI FOCUS Wall-mounted units A ++ WiFi Standard R410A	KWF-09HRD	Wall-mounted unit (indoor/outdoor), 2,6/2,9 kW, Only cooling -15+50 / heating -15+30°C	KWF-09HRDI
			KWF-09HRDO
		R410A , A++, SEER 6,1 / SCOP 4,0	Interface WiFi 17310900A01321
	KWF-12HRD	Wall-mounted unit (indoor/outdoor) 3,5/3,8 KW Only cooling -15+50 / heating -15+30°C	KWF-12HRDI
			KWF-12HRDO
		R410A , A++, SEER 6,1 / SCOP 4,0	Interface WiFi 17310900A01321
	KWF-18HRD	Wall-mounted unit (indoor/outdoor) 5,3 / 5,5 kW, Only cooling -15+50 / heating -15+30° CKWF-18HRDO	KWF-18HRDI
			KWF-18HRDO
		R410A , A++, SEER 6,5 / SCOP 4,0	Interface WiFi 17310900A01321
	KWF-24HRD	Wall-mounted unit (indoor/outdoor) 7,0/7,3 kW, Only cooling -15+50 / heating -15+30°C	KWF-24HRDI
			KWF-24HRDO
		R410A , A++, SEER 6,3 / SCOP 4,0	Interface WiFi 17310900A01321
KAISAI FLY Wall- mounted units A ++ Wifi Standard R32	KWX-09HRD	Wall-mounted unit (indoor/outdoor), 2,6/2,9 kW, Only cooling -15+50 / heating -15+30°C	KWX-09HRDI
			Interface WiFi 17310900A01321
		R32 , A++, SEER 6,2 / SCOP 4,0	KWX-09HRDO
	KWX-12HRD	Wall-mounted unit (indoor/outdoor) 3,5/3,8 KW Only cooling -15+50 / heating -15+30°C	KWX-12HRDI
			Interface WiFi 17310900A01321
		R32 , A++, SEER 6,1 / SCOP 4,0	KWX-12HRDO
	KWX-18HRD	Wall-mounted unit (indoor/outdoor) 5,3 / 5,6 kW, Only cooling -15+50 / heating -15+30°C	KWX-18HRDI
			Interface WiFi 17310900A01321
		R32 , A++, SEER 7,1 / SCOP 4,0	KWX-18HRDO
	KWX-24HRD	Wall-mounted unit (indoor/outdoor) 7,0/7,3 kW, Only cooling -15+50 / heating -15+30°C	KWX-24HRDI
			Interface WiFi 17310900A01321
		R32 , A++, SEER 6,1 / SCOP 4,0	KWX-24HRDO
KAISAI PRO Wall- mounted unit SCOP 4,6 A+++ WiFi Standard R410A	KS11M- 12HRF	Wall-mounted unit (indoor/outdoor) 3,5/4,1 KW Only cooling -15+50 / heating -25+30°C	KS11M-12HRFI
			Interface WiFi 17310900A01321
		R410A , A+++ , SEER 8,5 / SCOP 4,6	KS11M-12HRFO

**KAISAI**

Series	Model	Description	Model designation
Multi-Split air-conditioners R32	K20C-18HFN32	Multi-Split outdoor unit	K20C-18HFN32
		5,3/5,6 kW, R32, connection 1 to 2 indoor units	
	K30E-27HFN32	Multi-Split outdoor unit	K30E-27HFN32
		7,9/8,2 kW, R32, connection 1 to 3 indoor units	
	K40B-36HFN32	Multi-Split outdoor unit	K40B-36HFN32
		10,6/10,6 kW, R32, connection 1 to 4 indoor units	
	K50D-42HFN32	Multi-Split outdoor unit	K50D-42HFN32
		12,3/12,3 kW, R32, connection 1 to 4 indoor units	
	KWX-09HRDI	Indoor unit	KWX-09HRDI
		Wall-mounted unit, 2,6/2,9 kW, R32, WiFi Standard	Interface WiFi 17310900A01321
	KWX-12HRDI	Indoor unit	KWX-12HRDI
		Wall-mounted unit, 3,5/3,8 kW, R32, WiFi Standard	Interface WiFi 17310900A01321
	KWX-18HRDI	Indoor unit	KWX-18HRDI
		Wall-mounted unit, 5,3/5,6 kW, R32, WiFi Standard	Interface WiFi 17310900A01321
	KWX-24HRDI	Indoor unit	KWX-24HRDI
		Wall-mounted unit, 7,0/7,3 kW, R32, WiFi Standard	Interface WiFi 17310900A01321
KCA3I-09HRF32	Indoor unit	KCA3I-09HRF32	
	Cassette unit, 2,6/2,9 kW, R32	KCA3-HRF32 panel	
KCA3U-12HRF32	Indoor unit	KCA3U-12HRF32	
	Cassette unit, 3,5/4,1 kW, R32	KCA3-HRF32 panel	
KCA3U-18HRF32	Indoor unit	KCA3U-18HRF32	
	Cassette unit, 5,3/5,6 kW, R32	KCA3-HRF32 panel	
Kompakt Cassette indoor units R410A	KCA3U-12HRF47	Euro-Raster cassette unit with R410A, 3,5/4,1 kW	KCA3U-12HRF47
		SEER 6,1 / SCOP 4.0	KOB30U-12HFN4
			KCA3-HRF47 panel
	KCA3-18HRF47	Euro-grid cassette unit with R410A, 5,3/5,6 kW	KCA3-18HRF47
		SEER 6,3 / SCOP 4.0	KOB30U-18HFN4
			KCA3-HRF47 panel
KCD-24HRF47	Euro-grid cassette unit with R410A, 7,0/7,0 kW	KCD-24HRF47	
	SEER 6,1 / SCOP 4.0	KOCA30U-24HFN4	
		KCD-HRF47 panel	

## KAISAI

Series	Model	Description	Model designation	
Super Slim air-conditioners R32	KCD-24HRF32	Cassette indoor/outdoor unit with R32, 7,0/7,6 kW	KCD-24HRF32	
		SEER 6,1 / SCOP 4.0	KCD-HRF32 panel	
			KOCA30U-24HFN32	
	KCD-36HRF32	Cassette indoor/outdoor unit with R32, 10,6/11,1 kW	KCD-36HRF32	
		SEER 6,1 / SCOP 4.0	KCD-HRF32 panel	
			KOD30U-36HFN32	
	KCD-48HRF32	Cassette indoor/outdoor unit with R32, 14,0/16,1 kW	KCD-48HRF32	
		SEER 6,1 / SCOP 4.0	KCD-HRF32 panel	
			KOE30U-48HFN32	
	KCD-55HRF32	Cassette indoor/outdoor unit with R32, 15,8/18,2 kW	KCD-55HRF32	
		SEER 6,1 / SCOP 4.0	KCD-HRF32 panel	
			KOE30U-55HFN32	
Floor/ceiling air-conditioners R32	KUE-18HRF32	Floor/ceiling indoor/outdoor unit with R32, 5,3/5,6 kW	KUE-18HRF32	
		SEER 6,1 / SCOP 4.0	KOB30U-18HFN32	
	KUE-24HRF32	Floor/ceiling indoor/outdoor unit with R32, 7,0/7,6 kW	KUE-24HRF32	
		SEER 6,1 / SCOP 4.0	KOCA30U-24HFN32	
	KUE-36HRF32	Floor/ceiling indoor/outdoor unit with R32, 10,6/11,1 kW	KUE-36HRF32	
		SEER 6,1 / SCOP 4.0	KOD30U-36HFN32	
	KUE-48HRF32	Floor/ceiling indoor/outdoor unit with R32, 14,2/16,1 kW	KUE-48HRF32	
		SEER 6,1 / SCOP 4.0	KOE30U-48HFN32	
	KUE-55HRF32	Floor/ceiling indoor/outdoor unit with R32, 16,0/18,2 kW	KUE-55HRF32	
		SEER 6,1 / SCOP 4.0	KOE30U-55HFN32	
	Duct Slim air-conditioners R32	KTI-18HWF32	Duct indoor/outdoor unit with R32, 5,3/5,7 kW	KTI-18HWF32
			SEER 6,5 / SCOP 4.0	KOB30U-18HFN32
KTI-24HWF32		Duct indoor/outdoor unit with R32, 7,0/7,0 kW	KTI-24HWF32	
		SEER 6,1 / SCOP 4.0	KOCA30U-24HFN32	
KTI-36HWF32		Duct indoor/outdoor unit with R32, 10,6/11,1 kW	KTI-36HWF32	
		SEER 6,1 / SCOP 4.0	KOD30U-36HFN32	
KTI-48HWF32		Duct indoor/outdoor unit with R32, 14,1/16,4 kW	KTI-48HWF32	
		SEER 6,1 / SCOP 4.0	KOE30U-48HFN32	
KTI-55HWF32		Duct indoor/outdoor unit with R32, 15,8/18,2 kW	KTI-55HWF32	
		SEER 6,1 / SCOP 4.0	KOE30U-55HFN32	
Portable air-conditioners		KPC-09A	Portable air conditioner, R410A, Only cooling 2,64 kW	KPC-09A
		KPPD-12HRN	Portable air conditioner, R410A, cooling & heating, 3,5/2,9kW	KPPD-12HRN



**Dry contact  
beer coolers**

Lindr

Code	Type	Description
47-7040-SOUDEK-1-8	SOUDEK 1/8	1/8 HP, 15 l/h, 1x tap
47-7040-SOUDEK-30/K-CH-PL	SOUDEK 30/K (chrome), flat	1x tap
47-7040-SOUDEK-30/K-CHROM	SOUDEK 30/K (chrome)	1 tap
47-7040-SOUDEK-30/K-ZLATO	SOUDEK 30/K (gold)	1x tap
47-7040-SOUDEK-30/K-ZL-BAJ	SOUDEK 30/K (gold), bayonet	1x tap
47-7040-PYGMY-20	PYGMY 20 - 1	1x tap
47-7040-PYGMY-20-K	PYGMY 20K - 1	1x tap
47-7040-PYGMY-25	PYGMY 25 - 1	1x tap
47-7040-PYGMY-25-K	PYGMY 25K - 1	1x tap
47-7040-PYGMY-30KPROFI	PYGMY 30K PROFI	1x tap
47-7040-KONTAKT-40-1	KONTAKT 40-1	1x tap
47-7040-KONTAKT-40-2	KONTAKT 40-2	2x taps
47-7040-KONTAKT-40KPROFI	KONTAKT 40K - PROFI	2x taps
47-7040-KONTAKT-70	KONTAKT 70	2x taps
47-7040-KONTAKT-115	KONTAKT 115	2x taps



Type	Air compressor	Cooled beverages	Output [l/h] T <sub>0</sub> 0°C/T <sub>k</sub> 50°C	Unit power [Hp]	Cooling coils [m]	Weight [kg]	Dimensions l x w x h [mm]
47-7040-SOUDEK-1-8	x	1	20	1/8	6,8	15,2	200 x 375 x 515
47-7040-SOUDEK-30/K-CH-PL	automatic 2,6	1	35	1/8	15,5	22,1	291 x 372 x 460
47-7040-SOUDEK-30/K-CHROM	automatic 2,6	1	35	1/8	15,5	22,1	291 x 372 x 460
47-7040-SOUDEK-30/K-ZLATO	automatic 2,6	1	35	1/8	15,5	22,1	291 x 372 x 460
47-7040-SOUDEK-30/K-ZL-BAJ	automatic 2,6	1	35	1/8	15,5	22,1	291 x 372 x 460
47-7040-PYGMY-20	x	1	20	1/8	11,5	13,4	167 x 281 x 368
47-7040-PYGMY-20-K	automatic 2,3 - 2,6	1	20	1/8	11,5	15,2	167 x 281 x 368
47-7040-PYGMY-25	x	1	30	1/8	13,5	14,5	167 x 281 x 368
47-7040-PYGMY-25-K	automatic 2,3 - 2,6	1	30	1/8	13,5	16,4	167 x 281 x 368
47-7040-PYGMY-30KPROFI	regulation 1-3	1	35	1/8	15,5	19,7	182 x 341 x 388
47-7040-KONTAKT-40-1	x	1	50	1/5	28,0	26,8	227 x 331 x 468
47-7040-KONTAKT-40-2	x	2	50	1/5	14/14	26,8	227 x 331 x 468
47-7040-KONTAKT-40KPROFI	regulation 1-3	2	50	1/5	14/14	30,0	227 x 331 x 468
47-7040-KONTAKT-70	x	2	90	3/8	14/14	34,0	246 x 340 x 478
70 40-KONTAKT-115	x	2	140	3/4	2x20,9	45,2	263 x 380 x 538

**Overcounter  
beer coolers**

Lindr


Code	Type	Description
47-7040-AS-45-2	AS-45	1/5Hp, 45l/hour. 2x taps

Type	Output [l/h] $T_o$ 0°C/ $T_k$ 50°C	Air compressor [Hp]	Cooling coils [m]	Weight [kg]	Dimensions l x w x h [mm]	Tank capacity [l]	Ice bank [kg]
AS-45	50	1/5	8/8	25,5	440x270x430	14	4-Aug

### Undercounter beer coolers

Lindr

Code	Type	Description
47-7040-AS-40S2	AS40 30-40 l/h	2 cooling coils
47-7040-AS-80S2	AS80 50-70 l/h	2 cooling coils
47-7040-AS-80S4	AS80 50-70 l/h	4 cooling coils
47-7040-AS-110S4	AS110 75-110 l/h	4 cooling coils
47-7040-AS-110S6	AS110 75-110 l/h	6 cooling coils
47-7040-AS-160S2	AS160 110-160 l/h	2 cooling coils















Type	Output [l/h] $T_o$ 0°C/ $T_k$ 50°C	Air compressor [Hp]	Cooling coils [m]	Weight [kg]	Dimensions l x w x h [mm]	Tank capacity [l]	Ice bank [kg]	Displacement of water pump [m]
AS-40	40	1/6	2x8	18,8	440x270x395	14	4-8	1,2
AS-80	80	1/4	2x12 2x10	29,0	530x330x455	20	5-10	7,0
AS-110	110	3/8	2x14 2x12 2x10	34,0	610x420x475	38	10-20	7,0
AS-160	160	1/2	2x14 2x12 2x10	43,0	610x420x530	58	10-30	8,0











### Coolers for soda and water





Code	Type
47-7040-SODA-PYGMY	SODA PYGMY, 1/8 Hp, 18l/ hour, 1+1 taps
47-7040-SODA-AS45-2	SODA AS-45
47-7040-SODA-EL	SODA ELEGANCE
47-7040-SODA-EL-T	SODA ELEGANCE TOWER
47-7040-SODA-EL-PRI	Accessories for Soda Elegance
47-7040-SODA-PYGMY-PRI	Accessories for Soda Pygmy
47-7040-SODA-EL-FILTR	water filter AP3-C765S, SODA ELEGANCE




Type	Output [l/h] $T_o$ 0°C/ $T_k$ 50 °C	Water connection	Taps	Dimensions l x h x w [mm]	Weight [kg]
SODA-PYGMY	20	5/16	2	180x420x300	20,0
SODA-AS45-2	50	3/8	2	440x430x270	32,0
SODA-EL-T	20	5/16	2	215x1365x265	25,0
SODA-EL	20	5/16	2	215x650x265	17,0



**Accessories for dispensing system Linder**






Code	Description	
<b>dispense taps and accessories</b>		
47-3240-1921	dispense tap JG 9,5 mm	
47-3240-1704	plastic tap FAS 35 mm - chrome finish, long spout	
47-3240-1250	chrome plated tap with compensator FAS 35 mm - chrome, long spout	
47-3240-1139	key to the taps	
47-3240-2894	ring for the top of the tap - plastic	
47-3240-8061	top of the tap - plastic	
47-3240-8060	top of the tap Koh-LINDR (1) - stainless steel	
47-3240-022005	compensator lever Koh-LINDR, chrome (26)	
47-3240-1074	front spring Koh-LINDR (4)	
<b>dispence heads</b>		
47-3240-122456	adapter V for 5 l kegs	
47-3240-00186	filling for 5 L kegs	
47-3240-2990	dispense head BAYONET - DSI	
47-3240-3075	dispense head BAYONET - Lindr	

Code	Description	
47-3240-3547	dispense head BAYONET - MICROMATIC	
47-3240-24844	dispense head KOMBI - DSI	
47-3240-2116	dispense head KOMBI - Lindr	
47-3240-2693	dispense head KOMBI - MICROMATIC	
47-3240-3550	dispense head MICROMATIC	
47-3240-2806	dispense head FLAT - DSI	
47-3240-3076	dispense head FLAT - Lindr	
47-3240-2455	dispense head FLAT - MICROMATIC	
47-3240-00042	set of seals Koh-LINDR	
47-3240-00037	set of seals for dispense head DSI bajonet	
47-3240-00039	set of seals for dispense head MicroMatic - bayonet	
47-3240-00041	set of seals for dispense head MicroMatic - flat	
47-3240-251174	backflow valve (ball) - for dispence head DSI	
47-3240-174	autovalve V-587RGM	





Code	Description	
<b>party pumps</b>		
47-3240-01719	party pump - manually operated LINDR	
<b>tap stands</b>		
47-3240-STM00998	metal tap stand with 1 chrome tap	
47-3240-STM00999	metal tap stand with 2 chrome taps	
<b>drip trays</b>		
47-3240-02140	drip tray - stainless steel, 155 x 150 x 20 mm (PYGMY 15)	
<b>compressors</b>		
47-3240-01580	air compressor ABAC 020P, 2,012Hp, 1500W, 185 l/min, 0,0-8,0 Bar	
47-3240-00107	air compressor FIAC Leonardo 1Hp, 750W, 105 l/min, 0,0-8,0 Bar	
47-3240-01576	air compressor PUMA 1/2Hp, 370 W, 34 l/min, 0,0-4,0 Bar	
47-3240-01500	air compressor PUMA 1Hp, 750 W, 47 l/min, 0,0-4,0 Bar	
47-3240-01166	mini - air piston compressor 10 RAS, 2,1 bar	
47-3240-01167	mini - air piston compressor 15 RAS	
47-3240-2523	pressure reducer MICROMATIC, CO2, 1 st., G3/4	
<b>cooling coils</b>		
47-3240-SNEK-04	cooling coil 5,3 (15,5 x 15,5 cm)	
47-3240-SNEK-05	cooling coil 5,4 (18,2 x 18,2 cm)	
47-3240-SNEK-19	cooling coil 5,5 (21 x 21 cm)	
47-3240-SNEK-09	cooling coil for AS-110 - complete 2 x 11 m	
47-3240-SNEK-10	cooling coil for AS-110 - complete 2 x 14 m	
47-3240-SNEK-08	cooling coil for AS-110 - complete 2 x 8 m	
47-3240-SNEK-11	cooling coil for AS-160 / AS-200 - complete 2 x 10 m	
47-3240-SNEK-12	cooling coil for AS-160 / AS-200 - complete 2 x 14 m	
47-3240-SNEK-13	cooling coil for AS-160 / AS-200 - complete 2 x 19 m	
47-3240-SNEK-06	cooling coil for AS-40 - complete 2 x 8 m	
47-3240-SNEK-50	plastic handle for cooling coils, D=8mm	
<b>electropumps and motoagitatores</b>		
47-3240-961	electropump JR-800	
47-3240-892	motoagitatore with pump Samec, MID-7, 49 W	



Code	Description	
<b>glass washer and brushes</b>		
47-3240-91402	cleaner DOPILINE LUX, 5 l	
47-3240-00137	stainless steel sink for glass washer DUNETIC	
47-3240-00763	glass washer DUNETIC Compact	
47-3240-144	brush for dispensing tap 10 mm	
47-3240-160	brush for dispensing head KEG	

<b>sanitation</b>		
47-3240-3461	cleaning equipment SWING 400	
47-3240-3462	cleaning equipment SWING 400 - accessories	
47-3240-2456	plastic bottle 5l - MICROMATIC	
47-3240-2474	plastic bottle bayonet 5 l, MICROMATIC	
47-3240-3451	sanitizing adapter - bayonet	
47-3240-3452	sanitizing adapter - flat	
47-3240-3450	sanitizing adapter for beer taps LINDR, 5/8	
47-3240-3465	sanitizing solution HABLA CIP, 1kg	
47-3240-2459	sanitizing balls 8 mm	

<b>fittings</b>		
47-3240-1007-1	hard hose for drink, (6,7x9,5 mm)	
47-3240-1007-2	hard hose for air, (6 x 8 mm)	
47-3240-921	hexagon nut 1/2"	
47-3240-920	hexagon nut 5/8"	
47-3240-2051	speed fit bulkhead connector JG, with nut 3/8" (9.5mm)	

Code	Description	
47-3240-0487	speed fit bulkhead connector, with nut 5/16" (8 mm)	
47-3240-224	straight connector DM 1/2" x 9,5 mm nar, AFAB0607F	
47-3240-1032	Y connector JG - 3 x 3/8" (3 x 9,5 mm)	
47-3240-4125	cross connector JG 9,5x9,5x9,5mm (3/8")	
47-3240-1031	equal „T“ connector JG - 3/8" (9,5 mm)	
47-3240-1940	equal „T“ connector JG - 5/16" (8mm)	
47-3240-3489	reducing straight connector JG F 1/2" x 3/8" (9,5 mm)	
47-3240-3490	reducing straight connector JG F 1/2" x 5/16" (8 mm)	
47-3240-4041	reducing straighs connector JG F 1/4" x 3/8" (9,5 mm)	
47-3240-3477	straight connector JG F 3/8" x 3/8" (9,5 mm)	
47-3240-1041	reducing straight connector JG F 5/8" x 9,5mm	
47-3240-1948	reducing straight connector JG F 5/8"x 5/16" (8mm)	
47-3240-222	straight adaptor JG M 1/4" x 8 mm	
47-3240-1942	straight adaptor JG M 1/4" x 9,5mm	
47-3240-223	straight adaptor JG M 3/8" x 9,5mm	
47-3240-1926	reducing straight connector JG 1/2" x 3/8" (9,5 x 12,7 mm)	
47-3240-1038	equal straight connector JG 1/4" x 1/4" (6 x 6 mm)	
47-3240-1039	equal straight connector JG 3/8" x 3/8" (9,5 x 9,5 mm)	
47-3240-1208	reducing straight connector JG 3/8" x 6mm	
47-3240-1924	equal straight connector JG 5/16" x 5/16" (8 x 8 mm)	
47-3240-2469	equal straight connector JG, internal thread F1/4 - 8mm	
47-3240-1030	equal elbow JG 3/8" (9.5x9.5mm)	
47-3240-1692	equal elbow JG 5/16" (8 x 8 mm)	
47-3240-1029	stem elbow JG 3/8"x3/8" (9,5 x 9,5 mm)	
47-3240-0488	stem elbow JG 5/16" x 5/16" (8 x 8 mm)	

Code	Description	
47-3240-1034	straight connector JG superseal x speedfit 5/16"x3/8"	
47-3240-1042	female adaptor JG with BSP thread F7/16 x 8mm	
47-3240-1040	female adaptor JG with BSP thread F7/16 x 9.5mm	
47-3240-3146	stem adaptor DM M1/4"x D8mm, ASAB0804M	

service material		
47-3240-2354	pressure switch 1-10 bar 412.010,1 BHV	
47-3240-1127	pressure switch LF 08 (2,3 - 2,6 BAR)	

### Light bulbs

Code	Description
47-301001-01	light bulb for fridge 15 W E14, T20 x 52 mm
47-30001-02	light bulb for fridge 15 W E14, T20 x 54 mm

### Switches

Code	Description
47-328300-25	light switch IBERNA, V5 IB, 70080000

### Panels for fridges

Code	Description
47-328010-01	presssure sitch for fridge Metalflex HL 403 AE-T
47-328010-02	pressure sitch for fridge Metalflex HL 403 HB-D
47-328010-03	pressure sitch for fridge Metalflex HL 403 HB-4
47-328010-04	pressure sitch for fridge Metalflex HL 403 AA-3
47-328300-13	control panel OP 1

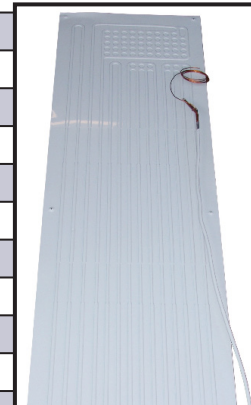
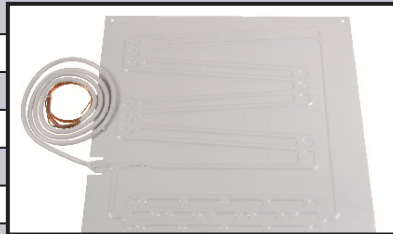
### Pumps for icemakers

Code	Description
47-325432-01	icemaker pump 481936178138
47-325432-02	icemaker pump



**Plate evaporators**

Code	Dimensions [mm]	Description
47-32KT600-024	370 x 275	Indesit
47-328300-37	320 x 1240	Calex, C275
47-32KT600-036	450 x 340	Candy
47-32KT600-038	460 x 300	Bosch
47-32KT600-047	440 x 300	
47-32KT600-200	370 x 275	Polar
47-32KT600-201	390 x 420	Polar TS177
47-32KT600-202	390 x 460	Polar
47-32KT600-203	400 x 750	Polar
47-32KT600-204	330 x 390	Polar TS137
47-32KT600-205	340 x 630	Polar
47-32KT600-1022	210 x 585	Vitfrigo PT3
47-32KT600-1020	295 x 215	Vitfrigo PT1
47-32KT600-1021	350 x 250	Vitfrigo PT2
47-32KT600-1023	350 x 350	Vitfrigo PT4
47-32KT600-1026	250 x 210 x 80	Vitfrigo S1
47-32KT600-1027	342 x 230 x 90	Vitfrigo S2
47-32KT600-099	410 x 425	Whirlpool, capillary outlet
47-32KT600-006	460 x 425	Whirlpool, capillary outlet
47-32KT600-037	320 x 440	pipe youlet 1,5 m
47-32KT600-007	430 x 1400	
47-32KT600-008	430 x 1600	
47-32KT600-020	430 x 1800	capillary outlet
47-32KT600-027	440 x 300	pipe outlet
47-328300-33	450 x 410	IBERNA CCB 305-355 920449700
47-328300-34	450 x 1030	IBERNA CV370 10074200

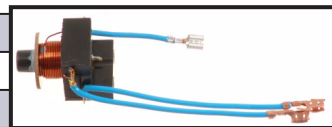

**Relay**

Code	Description
47-321300-02	relay 103N0002 DANFOSS, 230V, 25 Ohm
47-321300-11	relay 103N0011 DANFOSS, 230V, 25 Ohm
47-321300-15	relay 103N0015 DANFOSS, 230V, 25 Ohm
47-321300-16	relay 103N0016 DANFOSS, 230V, 25 Ohm
47-321300-18	relay 103N0018 DANFOSS, 230V, 25 Ohm
47-321300-21	relay 103N0021 DANFOSS, 230V, 25 Ohm
47-321300-50	relay 103N0050 DANFOSS, 230V, 25 Ohm
47-321300-117U6021	relay 117U6021, DANFOSS, HST/LST



Code	Description
47-32MTZ-RELE	relay Maneurop MT/MTZ 18, 22, 28, LZ, LTZ 22,28 - CSR28/5

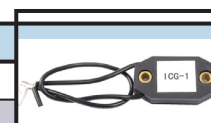
Code	Description
47-321301-04A	relay CALEX MR, 4 A - new type
47-321301-02,4	relay CALEX, MR 2,4 - old type
47-321301-02,4A	relay CALEX, MR 2,4 A - new type
47-321301-04	relay CALEX, MR 4 - old type
47-321301-06,5	relay CALEX, SR 6,5



Code	Description
47-321302-30	relay NECCHI, ES 3
47-321302-40	relay NECCHI, ES 4 - 3,5
47-321302-50	relay NECCHI, ES 5
47-321302-12	relay NECCHI, universal 1/12 - 1/2 HP



Code	Description
47-321303-02	relay universal, ICG 220, UR222
47-321303-03	relay universal, SPP 220
47-321303-04	relay universal, T.S. 6A /220-240V/, 1/12 - 1/2 HP



## Handles

Code	Description	Distance [mm]
47-323832-03	universal white handle	135
47-323832-00	universal green handle	160
47-323832-02	universal white handle	165
47-323832-01	universal white handle	270
47-323832-21	universal silver handle AEG	155
47-323832-18	universal black handle Ardo	160
47-323832-19	universal brown handle Ardo	155
47-328300-19	handle CALEX 160, 270, 290	150
47-328300-20	grey handle CALEX C175 - 275, (9500029)	180
47-328300-21	white handle CALEX C175 - 275, (9500029)	180
47-323832-04	universal white handle Candy	140
47-323832-05	universal brown handle Candy	155
47-323832-20	universal white handle Philco	150
47-323832-11	universal white handle OCEAN	110
47-323832-09	universal handle OCEAN	160
22 91609859	handle Zerowatt RZSC 051	155
47-323832-30	handle Polar	120
47-323832-31	handle Polar, CZW-250	135
47-323832-32	handle Whirlpool (48123101993)	175
47-323832-33	universal white handle for fridge	95 - 165
47-323832-34	universal white handle for fridge	165
47-323832-35	universal white handle for fridge	175
47-323832-36	universal white handle for fridge Bosch (483078)	175
47-323832-37	universal white handle for fridge Bosch (480720)	175

Code	Description	Distance [mm]
47-323832-38	universal white handle for fridge Bosch (096110)	103
47-323832-39	universal white handle for fridge Bosch (490705)	198
47-323832-40	universal white handle for fridge Bosch (093613)	160
47-323832-41	universal white handle for fridge Bosch (093347)	160
47-323832-42	white handle for fridge Bosch (369542)	310
47-323832-43	white handle for fridge Bosch (354911)	370
47-323832-44	white handle for fridge Bosch (369547)	318
47-323832-45	white handle for fridge Bosch (490442)	293
47-323832-46	white handle for fridge Bosch (498031)	365
47-323832-48	white handle for fridge Candy (9160872)	155
47-212062404039	handle Zanussi, ZRT154BO	133
47-212062728015	handle for fridge Electrolux, ERB 3044	
47-212425193196	handle for fridge Zanussi	133
47-212251199036	handle for fridge Zanussi ZC244BO, ZT164R	133
47-212063368019	handle Zanussi, ZFC140T, ZVC44LE	133
47-212062808015	handle Zanussi (2062808015, 2236268013, 2062808007)	
47-212082648086	handle Zanussi	
47-212425191018	handle Zanussi	
47-212425193105	handle Zanussi	130
47-214055048989	handle Zanussi	
47-23481246268876	handle Whirlpool	175
47-23481246268883	handle Whirlpool (481949878405, 481246268878)	
47-32322038500	handle Ardo	
47-11322066200	handle Ardo (651001843)	
47-11322079600	handle Ardo	
47-11322082100	handle Ardo	
47-11322082200	handle Ardo	
47-11322144000	handle Ardo (651002043)	
47-12271389	aluminium handle Indesit, 816 x 40 mm	
47-14488920	handle Bosch	
47-14490442	handle Bosch	
47-16169350	handle Gorenje, RF4205-W	
47-16314497	handle Gorenje (105457, 380376, 448418)	
47-16528180	handle Gorenje, K33BAD	
47-16544321	handle Gorenje, RM 53 Euro	
47-16544322	handle Gorenje, RM 53 Euro	
47-16597272	handle Gorenje, Euro short 99	
47-16597275	handle Gorenje, PM55, rounded (315168, 380373)	
47-16662417	handle Gorenje, K337/2MELA (315190, 315192, 613870, 187858)	
47-16662420	handle Gorenje, K337/2MELA (187859, 315191)	
47-16662447	white handle Gorenje, RM60, right upper (315026, 380374)	
47-16662448	handle Gorenje, RM60, right lower (315027, 380375)	
47-454326390500	handle Beko, lower (4326392600)	
47-454326391000	handle Beko, CHA, CSA, right upper (4326392700)	
47-32322030400	handle for fridge Ardo (Calex) CMR 220-2H (651001761)	

47-11322066200	47-11322079600	47-11322082100	47-11322082200
			
47-11322144000	47-12271389	47-14488920	47-14490442
			
47-16169350	47-16314497	47-16528180	47-16544321
			
47-16544322	47-16597272	47-16597275	47-16662417
			
47-16662420	47-16662447	47-16662448	47-212062404005
			
47-212062404039	47-212062728015	47-212062808015	47-212063368019
			
47-212082648086	47-212251199036	47-212425191018	47-212425193105
			
47-212425193196	47-214055048989	47-2291609859	47-23481246268876
			
47-23481246268883	47-32322038500	47-323832-00	47-323832-01
			

47-323832-02	47-323832-03	47-323832-04	47-323832-05
			
47-323832-09	47-323832-11	47-323832-18	47-323832-19
			
47-323832-20	47-323832-21	47-323832-30	47-323832-31
			
47-323832-32	47-323832-33	47-323832-34	47-323832-35
			
47-323832-36	47-323832-37	47-323832-38	47-323832-39
			
47-323832-40	47-323832-41	47-323832-42	47-323832-43
			
47-323832-44	47-323832-45	47-323832-46	47-323832-48
			
47-328300-19	47-328300-20	47-328300-21	47-454326390500
			
47-454326391000	47-32322030400		
			

## Water filters

Code	Description
47-12094414	water filter for fridge ARISTON / BOSCH / DAEWOO
47-12287147-32	water filter for fridge ARISTON / BOSCH / DAEWOO / WHIRLPOOL
47-155231JA2002A	internal water filter for fridge LG
47-155231JA2006F	internal water filter for fridge LG
47-15ADQ32617701	internal water filter for fridge LG
47-15ADQ36006101	water filter for fridge LG, FL-340, SIDE BY SIDE
47-2150292624009	water filter for fridge ZANUSSI / ELECTROLUX / AEG
47-23480181700086	water filter for fridge WHIRLPOOL
47-23480181700844	water filter for fridge WHIRLPOOL / BEKO, FL 300
47-23481248088024	water filter for fridge WHIRLPOOL
47-23481281718406	water filter for fridge WHIRLPOOL, replaceable filter element WF004
47-23481281718629	water filter for fridge WHIRLPOOL / SAMSUNG / LG
47-23481281729632	water filter for fridge WHIRLPOOL, replaceable filter element SBS002
47-23481931039257	water filter for fridge WHIRLPOOL
47-328200-00	universal water filter, D = 50 mm, L = 255 mm
47-328200-01	water filter for fridge GENERAL ELECTRIC
47-328200-02	water filter for fridge GENERAL ELECTRIC FL 310, MWF, 1136 l
47-328214-00	water filter for fridge BOSCH / SIEMENS / WHIRLPOOL
47-328214-01	water filter for fridge BOSCH / SIEMENS (740572, 643046)
47-328214-02	water filter for fridge BOSCH / SIEMENS FL-320, (664845)
47-328214-03	water filter for fridge BOSCH / SIEMENS / WHIRLPOOL, FL 370
47-328222-00	water filter for fridge CANDY / HOOVER, FL 294
47-328223-00	water filter for fridge WHIRLPOOL (481281718629)
47-328223-01	universal water filter for fridge, D = 45 mm, L = 260 mm / EF-9603
47-328230-00	water filter for fridge, PANASONIC, FL 330
47-46DA29-00003G	internal water filter for fridge SAMSUNG, small
47-46DA29-00105H	internal water filter for fridge SAMSUNG, WF-002
47-46DA29-10105J	internal water filter for fridge SAMSUNG

47-12094414	47-12287132	47-155231JA2002A	47-155231JA2006F
			
47-15ADQ32617701	47-15ADQ36006101	47-2150292624009	47-23480181700086
			
47-23480181700844	47-23481248088024	47-23481281718406	47-23481281718629
			
47-23481281729632	47-23481931039257	47-328200-00	47-328200-01
			
47-328200-02	47-328214-00	47-328214-01	47-328214-02
			
47-328214-03	47-328222-00	47-328223-00	47-328223-01
			
47-328230-00	47-46DA29-00003G	47-46DA29-00105H	47-46DA29-10105J
			

**Spare parts**  
**Calex**

Code	Description
47-321301-02,4	relay CALEX, MR 2,4 - old type
47-321301-02,4A	relay CALEX, MR 2,4 A - new type
47-321301-04	relay CALEX, MR 4 - old type
47-321301-04A	relay CALEX MR, 4 A - new type
47-321301-06,5	relay CALEX, SR 6,5
47-328300-13	front panel OP 1
47-328300-22	signalization panel TM130.1
47-328300-30	thermal protection MO 1.4 A
47-328320-00	magnetic gasket CALEX C65
47-328320-01	magnetic gasket 570 x 790 mm, CALEX C100, screw
47-328320-02	magnetic gasket 570 x 730 mm, CALEX C120, screw
47-328320-03	magnetic gasket 505 x 1180 mm, CALEX C210
47-328320-04	magnetic gasket 570 x 1180 mm, CALEX C230
47-328320-05	magnetic gasket 510 x 1040 mm, CALEX C250
47-328320-06	magnetic gasket 310 x 510 mm, CALEX CM180 - freezer
47-328320-07	magnetic gasket 675 x 1480 mm, CALEX C450
47-328320-08	magnetic gasket 538 x 795 mm, CALEX CCB(CM) 305,345, fridge
47-328320-09	magnetic gasket 538 x 604 mm, CALEX CCB(CM) 305, 355 freezer
47-328320-10	magnetic gasket 538 x 790 mm, CALEX CCB(CM) 345, freezer
47-328320-102	magnetic gasket 545 x 1635 mm, CALEX C370
47-328320-103	magnetic gasket 555 x 795 mm, CALEX CGR345, glass door
47-328320-11	magnetic gasket 538 x 973 mm, CALEX CCB(CM) 355, fridge
47-328320-12	magnetic gasket 550 x 1635 x 4 mm, CALEX CV370, glass door
47-328320-13	magnetic gasket 510 x 695 mm, CALEX CM180 - fridge
47-328320-14	magnetic gasket 520 x 765 mm, CALEX - SCR 150
47-328320-15	magnetic gasket 565 x 795 mm, CALEX SCR(C) 175, M130, screw
47-328320-16	magnetic gasket 570 x 1020 mm, CALEX - SCR (C) 225, SCV(M)180
47-328320-17	magnetic gasket 565 x 1240 mm, CALEX - SCR (C) 275, screw
47-328320-19	magnetic gasket 490 x 580 mm, CALEX M60
47-328320-20	magnetic gasket 580 x 565 mm, CALEX M70
47-328320-21	magnetic gasket 410 x 570 mm, CALEX M50
47-328320-22	magnetic gasket 565 x 960 mm, CALEX SCB 340 - fridge - screw
47-328320-23	magnetic gasket 565 x 765 mm, CALEX SCB 340 - freezer - screw
47-328320-231	magnetic gasket 560 x 780 mm, CALEX CV145
47-328320-97	magnetic gasket 565 x 1045 mm, CALEX SCB 350 - fridge
47-328322-00	magnetic gasket 510 x 580 mm, CALEX EL 65
47-328322-01	magnetic gasket 550 x 720 mm, CALEX EL 75
47-328322-02	magnetic gasket 510 x 810 mm, CALEX EL 100
47-328322-03	magnetic gasket 600 x 850 mm, CALEX IDEAL
47-328322-04	magnetic gasket 530 x 950 mm, CALEX H 171
47-328323-01	magnetic gasket 545 x 820 mm, CALEX L 150, LEHEL
47-328323-02	magnetic gasket 540 x 960 mm, CALEX L 175, LEHEL

We supply all types of specific spare parts for the brand Ardo, Beko, Indesit, Whirlpool, Zanussi and other. Complete range on our websites [www.kaeltpartner.net](http://www.kaeltpartner.net)



## Magnetic gasket

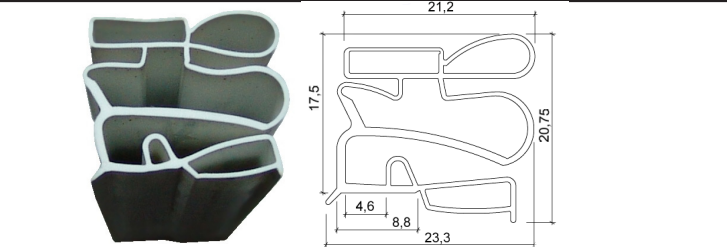
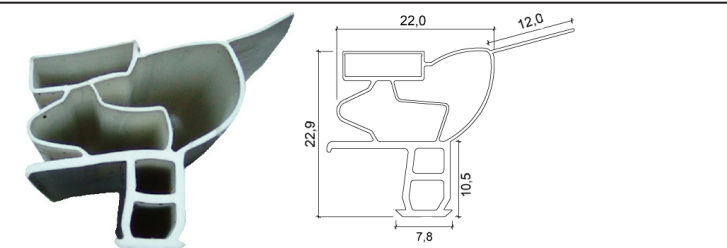
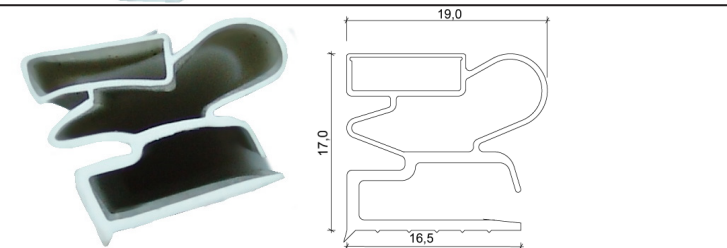
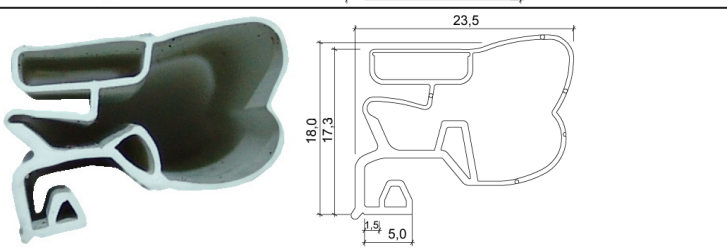
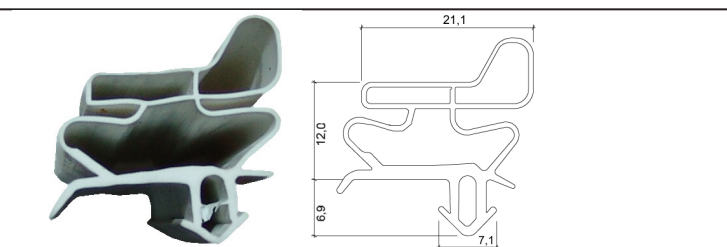
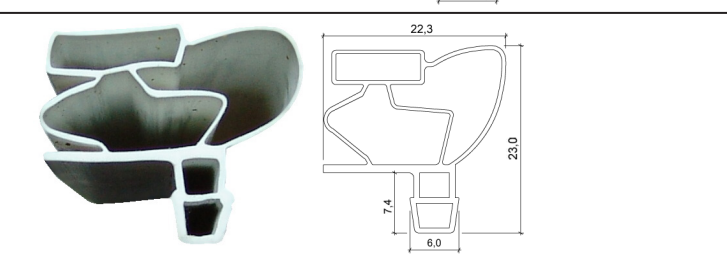
We offer the possibility of manufacturing the seal bespoke to your requirements.

Send us the size and type of the required seal profile.

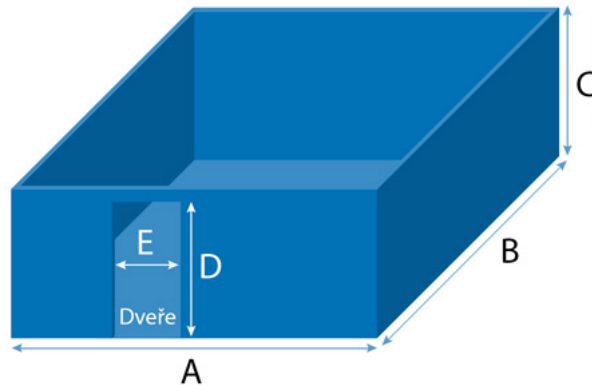
For screw profile gasket is measured by its external dimensions.

**For crimping profile measured external dimensions of the groove.**

Aproximate price without VAT is 100 CZK / m.

<p><b>47-3283-1-w x h [mm]</b></p> <p>Magnetic gasket</p> <p>Profile type: <b>P01 - sliding</b></p>	
<p><b>47-3283-2-w x h [mm]</b></p> <p>Magnetic gasket</p> <p>Profile type: <b>P02 - crimping</b></p>	
<p><b>47-3283-3-w x h [mm]</b></p> <p>Magnetic gasket</p> <p>Profile type: <b>P03 - screw</b></p>	
<p><b>47-3283-4-w x h [mm]</b></p> <p>Magnetic gasket</p> <p>Profile type: <b>P04 - sliding</b></p>	
<p><b>47-3283-5-w x h [mm]</b></p> <p>Magnetic gasket</p> <p>Profile type: <b>P05 - crimping</b></p>	
<p><b>47-3283-6-w x h [mm]</b></p> <p>Magnetic gasket</p> <p>Profile type: <b>P06 - crimping</b></p>	

# Calculation of technology



### Box

Width A [m]:\* .....  
 Length B [m]:\* .....  
 Height C [m]:\* .....  
 Ambient temperature [°C]: .....

Location:  overground floor  
 ground floor - with cellar  
 ground floor - without cellar

Type of floor  insulated floor pannels  
 insulation under concrete and floor layer  
 floor without any insulation

### Door

Height D [m]:\* .....  
 Width E [m]:\* .....  
 Threshold:\*  yes  no  
 Leading outside the building:  yes  no  
 Ambient temperature at the door [°C]: .....  
 Relative humidity at the door [%]: .....

### Insulation Materials

#### Floor

Thickness [mm]:\* .....  
 Ambient temperature [°C]:\* .....  
 Material:\*  PUR  
 Styrofoam  
 Glass or basalt wool  
 Mineral wool

#### Ceiling

Thickness [mm]:\* .....  
 Ambient temperature [°C]:\* .....  
 Material:\*  PUR  
 Styrofoam  
 Glass or basalt wool  
 Mineral wool

#### Walls

Thickness [mm]:\* .....  
 Ambient temperature [°C]:\* .....  
 Material:\*  PUR  
 Styrofoam  
 Glass or basalt wool  
 Mineral wool

**Operation of box**

Working hours [h]: .....  
 Operation intensity: .....

- Long-term storage
- Standard manipulation
- Intensive manipulation

**Evaporator**

Power of defrost [W]: .....  
 Fan power [W]: .....  
 No. of evaporators: .....  
 No. of derfost cycles in 24 hours: .....  
 Defrosting time [h]: .....

**Other equipment**

Power of other equipment [W]: .....  
 Working time of equipment [h]: .....  
 Power of lights [W]: .....  
 Working time of lights [h]: .....  
 No. of persons: .....  
 Working time of persons [h]: .....

**Refrigerated goods**

Type of goods:\* .....  
 .....  
 .....

Inlet temperature of goods [°C]:\* .....  
 Outlet temperature of goods [°C]:\* .....  
 Inside temperature (box) [°C]:\* .....  
 Volume of stored goods [kg]:\* .....  
 Daily turnover [kg]:\* .....

**Responsible person** .....

**Fields marked \* are required**

## Conversion table °C / °F

°C / °F = °C × 1,8 + 32 = °F

°F / °C = (°F - 32) : 1,8 = °C

## Conversion table for capacity

A	WATT	Kca/h	BTU/h
WATT	1	0.86	3.4
Kca/h	1.163	1	3.95
BTU/h	0.293	0.25	1

## Conversion table for pressures

	bar	mbar	Pa	kPa	psi
1 bar	1	1000	100,000	100	14.5
1 mbar	0.001	1	100	0.1	0.014
1 Pa	0.00001	0.01	1	0.001	0.000145
1 kPa	0.01	10	1000	1	0.145
1 psi	0.069	69	6900	69	1
1 Torr	0.00133	1.3	133.3	0.1333	0.0193

## Conversion table suction / discharge

	l/s	l/min	CFM	m³/h
l/s	1	60	2.12	3.6
l/min	0.0167	1	0.0353	0.06
CFM	0.472	28.32	1	1.7
m³/h	0.278	16.67	0.589	1

UNF	SAE	External Ø [mm]	Inner Ø [mm]	Number of teeth on 1"	Pitch of teeth in thread in mm
7/16" – 20 UNF	1/4" SAE	11.079	9.738	20	1.27
1/2" – 20 UNF	5/16" SAE	12.667	11.328	20	1.27
5/8" – 18 UNF	3/8" SAE	15.839	14.348	18	1.411
3/4" – 16 UNF	1/2" SAE	19.012	17.33	16	1.588
7/8" – 14 UNF	- SAE	22,184	20,262	14	1,814
7/8" – 14 UNF	5/8" SAE	22,184	20,262	14	1,814
1" – 14 UNF	3/4" SAE	25,357	23,437	14	1,814
1 1/16" – 14 UNF	- SAE	26,947	25,024	14	1,814
1 1/18" – 12 UNF	- SAE	28,529	26,284	12	2,117
1 1/14" – 12 UNF	7/8" SAE	31,704	29,459	12	2,117
1 3/8" – 12 UNF	- SAE	34,877	32,634	12	2,117
1 1/2" – 12 UNF	1" SAE	38,052	35,809	12	2,117

**Thermometers  
+ hygrometers**
**Hanging**

Code	Type	Temperature range [°C]
47-328001-00	hanging thermometer	-40 / +50 °C
47-328001-01	hanging thermometer	-40 / +40 °C
47-328001-02	liquid filled glass tube thermometer	-40 / +70 °C
47-328001-03	plastic thermometer with piercing probe, Ø = 53 mm	-40 / +20 °C
47-328003-31	bimetall hygrometer, Ø = 51 mm	0-100% RH

**Thermometers**
**Built-in**

Code	Type of shape	Temperature range [°C]	Capillary range [m]
47-328002-00	rectangular	-40 / +40 °C	1,5 m
47-328002-01	rectangular	-40 / +40 °C	
47-328002-52	round Ø 52	-40 / +40 °C	1,5 m
47-328002-60	round Ø 60	-40 / +40 °C	1,5 m
47-328002-80	round Ø 80	-40 / +40 °C	1,5 m
47-328002-100	round Ø 100	-40 / +40 °C	1,5 m

**Thermometers  
+ hygrometers**
**Digital**

Code	Type	Temperature range [°C]	Humidity range
47-328003-11	PHT 338	0 / +50 °C	2% / 98%
47-328003-12	DT 98 - probe 3 m	0 / +50 °C	25% / 95%
47-328003-15	DT - 2 probe 3m	-30 / +50°C	20% / 99%

**Thermometers**
**Digital**

Code	Type	Temperature range [°C]	Description
47-328003-00		-40 / +70°C	with probe
47-328003-01	DTE + SDTE	-40 / +50°C	with probe 3 m
47-328003-02	STE - 9290	-50 / +300°C	with piercing penetration probe
47-328003-03	FLICA PTI 510	-55 / +99°C	230 V
47-328003-05	Mastercool	-20 / +500°C	infrared with laser
47-328003-06		-50 / +300°C	with alarm
47-328003-07	SDT 310	-50 / +150°C	with piercing penetration probe
47-328003-11	WT1	-50 / +300°C	with piercing penetration probe
47-328003-14	ST1	-50 / +150°C	with piercing penetration probe
47-328003-16	TMP-2000B	-49 / +99°C	2x probe
47-328003-17	EBCO-TLC700	-40 / +250°C	folding
47-328003-20	WM-150	-50 / +150°C	with piercing penetration probe
47-328003-25	Mastercool	-50 / +500°C	infrared with dual laser
47-328003-40	T830-T1	-30 / +400°C	infrared with laser
47-328003-41	T830-T2	-30 / +400°C	infrared with laser
47-328003-50		-20 / +80°C	solar


**Thermometers**
**Testo**

Code	Description
47-328003-05607351	thermometer Testo 735-1, 0560 7351, 3 vstupy typ K/Pt 100,
47-328003-06020393	fast-action surface probe for uneven surfaces, Tmax short-term up to +500°C Testo
47-328003-06024592	pipe clamp probe, for pipe with a diameter 5- 65 mm, T max +280, Testo 0602 4592
47-328003-06091273	rugged, waterproof immersion / penetration Pt 100 probe Testo 0609 1273
47-328003-06280020	pipe wrap probe with velcro strip Testo 0628 0020, for pipe with a diameter 120 mm
47-328003-625	thermo/hygrometer TESTO 625

## Charging hose, reduction

Code	Length	Description
<b>Universal</b>		
47-327000-09	3 x 0,9 m	charging hose set SH (yellow, blue, red), 1/4" SAE
47-327000-12	3 x 1,2 m	charging hose set SH (yellow, blue, red), 1/4" SAE
47-327000-15	3 x 1,5 m	charging hose set SH (yellow, blue, red), 1/4" SAE
47-327000-18	3 x 1,8 m	charging hose set SH (yellow, blue, red), 1/4" SAE
47-327000-24	3 x 2,4 m	charging hose set SH (yellow, blue, red), 1/4" SAE
<b>Universal - with quick coupler</b>		
47-327000-09F	3 x 0,9 m	charging hose set SH (yellow, blue, red), 1/2" ACME x 1/4" SAE
<b>Mastercool</b>		
47-327001-14	1,5 m	charging hose 41602, 1/4" SAE, yellow
47-327001-15	1,5 m	charging hose 41601, 1/4" SAE, blue
47-327001-16	1,5 m	charging hose 41603, 1/4" SAE, red
47-327001-04	2,5 m	charging hose 41961, 1/4" SAE, blue
47-327001-05	2,5 m	charging hose 41962, 1/4" SAE, yellow
47-327001-06	2,5 m	charging hose 41963, 1/4" SAE, red
47-327001-30	2,5 m	charging hose 84961, 1/2" ACME-F x 14 mm M, blue
47-327001-20	5 m	charging hose 41961-200, 1/4" SAE, blue
47-327001-21	5 m	charging hose 41962-200, 1/4" SAE, yellow
47-327001-22	5 m	charging hose 41963-200, 1/4" SAE, red
47-327000-30	3 x 0,9 m	charging hose set 40336, 1/4" SAE (yellow, blue, red)
47-327000-31	3 x 1,8 m	charging hose set 40372, 1/4" SAE (yellow, blue, red)
47-327000-32	3 x 2,4 m	charging hose set 40396, 1/4" SAE (yellow, blue, red)
47-327000-65	3 x 0,9 m	charging hose set R410A, 49336-J, 5/16" - 5/16" (yellow, blue, red)
47-327000-66	3 x 1,8 m	charging hose set R410a, 49360-J, 5/16" - 5/16" (yellow, blue, red)
47-327000-67	3 x 1,5 m	charging hose set R410a, 49360-JT, red / blue 1/4" x 5/16", yellow 1/4" x 1/4"
47-327000-68	3 x 0,9 m	charging hose set R410a, 493336-JT, red / blue 1/4" x 5/16", yellow 1/4" x 1/4"
47-327000-71	1,8 m	charging hose R1234yF, 83372
<b>Mastercool - with quick coupler</b>		
47-327000-24F	3 x 2,4 m	charging hose set 1/2" ACME x 1/4" SAE
<b>Refco</b>		
47-327001-CL12B	0,3 m	charging hose 9881255 CL-12B, 1/4" SAE, blue
47-327001-CL12R	0,3 m	charging hose 9881264 CL-12R, 1/4" SAE, red
47-327001-CL12Y	0,3 m	charging hose 9881273 CL-12Y, 1/4" SAE, yellow
47-327001-CL60B	1,5 m	charging hose 9881251 CL-60B, 1/4" SAE, blue
47-327001-CL60R	1,5 m	charging hose 9881260 CL-60R, 1/4" SAE, red
47-327001-CL60Y	1,5 m	charging hose 9881269 CL-60Y, 1/4" SAE, yellow
47-327001-CA-CL72B	1,8 m	charging hose 4492979 CA-CL-72, with ball valve, blue
47-327001-CA-CL72R	1,8 m	charging hose 4492987 CA-CL-72, with ball valve, red

Code	Length	Description
<b>Refco</b>		
47-327001-CA-CL72Y	1,8 m	charging hose 4492995 CA-CL-72, with ball valve, yellow
47-327001-CL120B	3 m	charging hose 9881249 CL 120-B, 1/4" SAE, blue
47-327001-CL120R	3 m	charging hose 9881258 CL 120-R, 1/4" SAE, red
47-327001-CL120Y	3 m	charging hose 9881267 CL 120-Y, 1/4" SAE, yellow
47-327000-CL36	3 x 0,9 m	charging hose set 9881278, 1/4" SAE (yellow, blue, red)
47-327000-CL60	3 x 1,5 m	charging hose set 9881276, 1/4" SAE (yellow, blue, red)
47-327000-CL72	3 x 1,8 m	charging hose set 9881275, 1/4" SAE (yellow, blue, red)
47-327001-CPV72-B	1,8 m	charging hose 9881234 CPV-72B, 1/4" SAE, blue
<b>ERRECOM</b>		
47-327000-80	3 x 2,0 m	charging hose set (yellow, blue, red) 1/4" SAE

### Charging hose with ball valve

Code	Length	Description
<b>Universal</b>		
47-327000-40	3 x 0,9 m	charging hose set with ball valve R134a, 1/4" SAE
47-327000-41	3 x 1,8 m	charging hose set with ball valve R134a, 1/4" SAE
47-327000-42	3 x 2,4 m	charging hose set with ball valve R134a, 1/4" SAE
47-327000-53	3 x 0,15 m	charging hose set with ball valve R410A, 1/4" SAE - 5/16"
47-327000-50	3 x 1,5 m	charging hose set with ball valve R410A, 1/4" SAE - 5/16"
47-327000-51	3 x 1,8 m	charging hose set with ball valve R410A, 1/4" SAE - 5/16"
47-327000-52	3 x 2,4 m	charging hose set with ball valve R410A, 1/4" SAE - 5/16"
47-327000-60	3 x 1,8 m	charging hose set with ball valve R410A, 5/16" - 5/16" SAE
47-327001-07	3 x 1,8 m	charging hose set with ball valve R410A, 5/16" - 5/16" SAE
<b>Mastercool</b>		
47-327001-01	0,15 m	charging hose with ball valve 90265, 1/4" x 1/4" SAE, red
47-327001-02	0,15 m	charging hose with ball valve 90264, 1/4" x 1/4" SAE, yellow
47-327001-03	0,15 m	charging hose with ball valve 90263, 1/4" x 1/4" SAE, blue
47-327000-70	3 x 0,15 m	charging hose set with ball valve 49262-J 5/16" - 5/16" SAE



### Charging hose - accessories

Code	Type	Connection SAE		Description
		Male	Female	
47-327001-50	straight	5/16"	1/4"	swivel adapter R410A
47-327001-52	straight	1/4"	5/16"	swivel adapter R410A
47-327001-54	straight	1/4"	5/16"	swivel adapter R410A
47-327001-57	straight	5/16"	1/4"	swivel adapter R410A
47-327001-51	90°	1/4"	5/16"	swivel adapter R410A
47-327001-56	90°	1/4"	5/16"	swivel adapter R410A
47-327001-58	90°	5/16"	1/4"	swivel adapter R410A

Code	Description
47-323004-00	ball valve for hoses 1/4" M x 1/4" F S
47-323004-01	ball valve for hoses 1/4" M x 5/16 F S
47-323004-03	ball valve for hoses 5/16" M x 5/16" F
47-327001-23	ball valve for hoses Refco CA-1/4" SAE-B, 4493525
47-327001-24	ball valve for hoses Refco CA-1/4" SAE-R, 4493533
47-327001-25	ball valve for hoses Refco CA-1/4" SAE-Y, 4493738
47-327001-26	ball valve for hoses Refco CX-3/8" SAE-B, 9881181
47-327200-04	low pressure quick coupler with depressor, swivel female connection 1/4"
47-327200-05	high pressure quick coupler with depressor, swivel female connection 1/4"
47-327001-63	access control valve Refco A-33410, connection 1/4" SAE x 1/2" UNF, 4681645
47-323004-02	control valve Mastercool with swivel coupler 1/4" M x 1/4" F
47-323006-01	valve for refrigerant bottles R600a and R290, BVR-4, 7/16" SAE (F) - 1/4" SAE (M)
47-323006-04	connection for bottle 750 ml, R-600, 7/16" SAE (F) - 1/4" SAE (M)
47-327001-55	reducing coupler with ball valve R410A, 1/2" - 20 UNF x 1/4" SAE
47-327004-00	NBR gaskets for 1/4" SAE, 1/2" - 16 ACME hoses, set of 10 pcs
47-327004-01	PTFE gaskets for 1/4" SAE, 1/2" - 16 ACME hoses, set of 10 pcs
47-327004-02	valve openers for hoses, set of 10 pcs
47-327004-04	gaskets for 5/16" SAE hoses, set of 10 pcs

47-323004-00	47-323004-01	47-323004-03	47-327001-23	47-327001-24	47-327001-25
					
47-327001-26	47-327200-04	47-327200-05	47-327001-63	47-323004-02	47-323006-01
					
47-323006-04	47-327001-55	47-327004-00	47-327004-01	47-327004-02	47-327004-04
					



**Manifolds**
**WIGAM**

Code	Type	Ø [mm]	Refrigerants												
			R134a	R404A	R407C	R410A	R507A	R1234yf	R422A	R422D	R417A	R32	R407F	R290	R600a
<b>manifold body</b>															
47-327022-04	5-ways	-	X	X	X	X	X	X	X	X	X	X	X	X	
47-327022-06	4-ways	-													
47-327022-05	2-ways	-	X	X	X	X	X	X	X	X	X	X	X	X	
<b>without hoses</b>															
47-327022-00	2-ways	80	X	X	X										
47-327022-01	2-ways	80													X
47-327022-03	5-ways	80	X	X	X										
47-327022-10	2-ways	80							X						
47-327022-11	4-ways	80							X						
47-327022-08	4-ways	80	X	X	X										
<b>accessories</b>															
47-327022-51	gasket sets for knobs WIGAM														

47-327022-00		47-327022-01		47-327022-03		47-327022-04		47-327022-05		47-327022-06	
47-327022-08		47-327022-10		47-327022-11		47-327022-51					

Code	Type	Refrigerants										Accessories				
		R134a	R404A	R407C	R410A	R507A	R1234yf	R422A	R422D	R417A	R32	R407F	R290	R600a	clamp probe	case
47-327010-00	2-ways	x	x	x	x	x		x	x					x	1x	without
47-327010-01	2-ways	x	x	x	x	x		x	x					x	2x	without
47-327010-05	4-ways	x	x	x	x	x		x	x					x	1x	with
47-327010-06	4-ways	x	x	x	x	x		x	x					x	2x	with
47-327010-07	4-ways	x	x	x	x	x		x	x					x	1x	without
47-327010-08	4-ways	x	x	x	x	x		x	x					x	2x	with
<b>accessories</b>																
47-327011-00	NTC clamp probe for pipes from 6 to 35 mm, range -40.....+125 [°C]															
47-327011-01	pipe wrap NTC probe w/Velcro, range -50.....+70 [°C]															
47-327011-02	waterproof surface probe NTC for flat surfaces, range -50.....+150 [°C]															
47-327011-03	air probe NTC, range -50.....+125 [°C]															

47-327010-00		47-327010-01		47-327010-05		47-327010-06		47-327010-07		47-327010-08	
47-327011-00		47-327011-01		47-327011-02		47-327011-03					

**MASTERCOOL**
**Manifolds**

Code	Type	Ø [mm]	Refrigerants												Hoses			Quick couplers
			R134a	R404A	R407C	R410A	R507A	R1234yf	R422A	R422D	R417A	R32	R407F	R290	R600a	L [m]	1/4"	
<b>manifold body</b>																		
47-327020-29	2-ways	-	X	X	X	X	X	X				X	X	X	X			
47-327020-10	4-ways	-	X	X	X	X	X	X				X	X	X	X			
<b>without hoses</b>																		
47-327020-22	2-ways	63	X	X														
47-327020-24	2-ways	63	X	X	X	X												
47-327020-20	2-ways	80			X													
47-327020-26	2-ways	80						X	X									
47-327020-34	2-ways	80			X								X					
47-327020-35	2-ways	80	X	X										X				
47-327020-36	2-ways	80													X	X		
<b>with hoses</b>																		
47-327020-23	2-ways	63	X	X												0,9	3x	without
47-327020-27	2-ways	63	X	X		X										1,8	3	without
47-327020-30	2-ways	63	X	X												0,9	3x	without
47-327020-31	2-ways	63	X	X	X	X				X						1,5	3x	without
47-327020-32	2-ways	63	X	X		X				X						1,5	3x	without
47-327020-21	2-ways	80			X	X	X									1,8	3x	without
47-327020-25	2-ways	80			X	X	X									1,8	3x	without
47-327020-33	2-ways	80			X	X	X									1,5	3x	without
47-327020-40	2-ways	80							X							1,8	3x	with
47-327020-11	4-ways	80	X	X	X	X	X									1,5	3x	1x
47-327020-12	4-ways	80			X	X	X									1,8	3x	1x
47-327020-13	4-ways	80	X	X	X	X	X									1,8	4x	with
<b>accessories</b>																		
47-327020-50	seal and seat assembly, set of 2 pcs																	

47-327020-10		47-327020-11		47-327020-12		47-327020-13		47-327020-20		47-327020-21	
47-327020-22		47-327020-23		47-327020-24		47-327020-25		47-327020-26		47-327020-27	
47-327020-29		47-327020-30		47-327020-31		47-327020-32		47-327020-33		47-327020-34	
47-327020-35		47-327020-36		47-327020-40		47-327020-50					

**VALUE**
**Manifolds**

Code	Type	Ø [mm]	Refrigerant											Hose		Quick coupler		
			R134a	R404A	R407C	R410A	R507A	R1234yf	R422A	R422D	R417A	R32	R407F	R290	R600a		L [m]	1/4"
<b>without hoses</b>																		
47-327023-02	1-way	60	X		X													
47-327023-03	1-way	60																
<b>with hoses</b>																		
47-327023-00	2-way	80	X	X	X										1,2	3x		without
47-327023-01	2-way	80	X		X	X									1,5	3x		with
47-327023-10	2-way	80											X		1,5	3x		without
47-327023-11	2-way	80					X								1,5	3x		without



## Pressure gauges

## Universal



Code	Type	Type of connection	Ø [mm]	Range [bar]	Refrigerant			Connection
					R134a	R404A	R407C	
<b>low pressure</b>								
47-321100-00	with valve	lower						
47-321100-03	oil-filled	back	60	-1 / 15	x			1/4" SAE
47-321100-05	oil-filled	back	60	-1 / 9	x			1/4" SAE
47-321100-30	oil-filled	back	60	0 / 35	x	x		1/4" SAE
47-321100-32	oil-filled	back	60	0 / 35	x	x	x	1/4" SAE
47-321100-21	oil-filled	lower	60	0 / 35	x	x		1/8" NPT
47-321100-23	oil-filled	lower	60	0 / 35	x	x	x	1/8" NPT
47-321100-18	dry	lower	70	-1 / 24			x	1/8" NPT
47-321100-02	dry	lower	80	-1 / 15	x	x		1/8" NPT
47-321100-35	dry	lower	80	-1 / 15	x	x	x	1/8" NPT
<b>high pressure</b>								
47-321100-06	oil-filled	back	60	0 / 35	x			1/4" SAE
47-321100-31	oil-filled	back	60	0 / 55	x	x		1/4" SAE
47-321100-33	oil-filled	back	60	0 / 55	x	x	x	1/4" SAE
47-321100-22	oil-filled	lower	60	0 / 55	x	x		1/8" NPT
47-321100-24	oil-filled	lower	60	0 / 55	x	x	x	1/8" NPT
47-321100-04	dry	back	60	-1 / 35	x			1/4" SAE
47-321100-20	dry	lower	60		x	x		1/8" NPT
47-321100-19	dry	lower	70	0 / 55			x	1/8" NPT
47-321100-01	dry	lower	80	-1 / 35	x	x		1/8" NPT
47-321100-34	dry	lower	80	-1 / 35	x	x	x	1/8" NPT

Code	Type	Type of connection	Ø [mm]	Range [bar]	Refrigerant													Connection	
					R134a	R32	R404A	R407C	R410A	R507A	R422A	R427A	R422D	R417A	R1270	R290	R600a		R1234yf
<b>low pressure</b>																			
47-321110-00	dry	lower	63	-1 / 20			X		X										1/8" NPT
47-321110-02	dry	lower	63	-1 / 8	X		X		X										1/8" NPT
47-321110-04	dry	lower	80	-1 / 8	X		X		X										1/8" NPT
47-321110-06	dry	lower	80	-1 / 20			X		X										1/8" NPT
47-321110-08	dry	lower	80	-1 / 8							X	X							1/8" NPT
47-321110-10	dry	lower	80	-1 / 20										X	X				1/8" NPT
47-321110-12	dry	lower	80	-1 / 20		X			X										1/8" NPT
47-321110-14	dry	lower	80	-1 / 8													X		1/8" NPT
<b>high pressure</b>																			
47-321110-01	dry	lower	63	0 / 55			X		X										1/8" NPT
47-321110-03	dry	lower	63	0 / 35	X		X		X										1/8" NPT
47-321110-05	dry	lower	80	0 / 35	X		X		X										1/8" NPT
47-321110-07	dry	lower	80	0 / 55					X										1/8" NPT
47-321110-09	dry	lower	80	0 / 35							X	X							1/8" NPT
47-321110-11	dry	lower	80	0 / 55										X	X				1/8" NPT
47-321110-13	dry	lower	80	0 / 55		X			X										1/8" NPT
47-321110-15	dry	lower	80	0 / 35													X		1/8" NPT

Code	Type	Type of connection	Ø [mm]	Range [Mpa]	Refrigerants					Connection
					R134a	R32	R404A	R407C	R410A	
<b>low pressure</b>										
47-321120-04	oil-filled	back	60	-0,1 / 1,8	x		x	x		1/4" SAE
47-321120-06	oil-filled	back	60	-0,1 / 3,8						1/4" SAE
47-321120-02	oil-filled	lower	60	-0,1 / 1,8	x		x			1/4" SAE
47-321120-08	oil-filled	lower	60	-0,1 / 3,8				x		1/4" SAE
47-321120-00	dry	lower	80	-0,1 / 0,3						1/8" NPT
47-321120-10	dry	lower	80	-0,1 / 3,8		x		x		1/8" NPT
47-321120-12	dry	lower	80	-0,1 / 1,5	x		x	x		1/8" NPT
<b>high pressure</b>										
47-321120-05	oil-filled	back	60	-0,1 / 3,8	x		x	x		1/4" SAE
47-321120-07	oil-filled	back	60	-0,1 / 5,3				x		1/4" SAE
47-321120-03	oil-filled	lower	60	-0,1 / 3,8	x		x			1/4" SAE
47-321120-09	oil-filled	lower	60	-0,1 / 5,3				x		1/4" SAE
47-321120-01	dry	lower	80	-0,1 / 1,0						1/8" NPT
47-321120-11	dry	lower	80	-0,1 / 5,3		x		x		1/8" NPT
47-321120-13	dry	lower	80	-0,1 / 3,5	x		x	x		1/8" NPT



**Refco**
**Pressure gauges**

Code	Type	Type of connection	Ø [mm]	Refrigerants										NH <sup>3</sup>	Connection	
				R134a	R32	R404A	R407C	R507	R410A	R290	R600a	R600				
<b>low pressure</b>																
47-321130-00	dry	lower	76	x		x	x									1/8" NPT
47-321130-10	dry	lower	76								x		x			1/8" NPT
47-321130-02	oil-filled	lower	60	x		x	x									1/8" NPT
47-321130-08	oil-filled	lower	60				x			x						1/8" NPT
47-321130-04	oil-filled	lower	80	x		x	x									1/8" NPT
47-321130-06	oil-filled	lower	80	x		x		x								1/8" NPT
<b>high pressure</b>																
47-321130-01	dry	lower	76	x		x	x									1/8" NPT
47-321130-11	dry	lower	76									x		x		1/8" NPT
47-321130-20	dry	lower	100												x	1/2" GAS
47-321130-21	dry	lower	100												x	1/2" GAS
47-321130-03	oil-filled	lower	60	x		x	x									1/8" NPT
47-321130-12	oil-filled	lower	60	x		x		x								1/8" NPT
47-321130-09	oil-filled	lower	60				x			x						1/8" NPT
47-321130-05	oil-filled	lower	80	x		x	x									1/8" NPT
47-321130-07	oil-filled	lower	80	x		x		x								1/8" NPT

### Gauge accessories

Code	Description
47-321101-00	gauge protector Ø 63 mm - red
47-321101-01	gauge protector Ø 63 mm - blue
47-321101-02	gauge protector Ø 80 mm - red
47-321101-03	gauge protector Ø 80 mm - blue
47-321101-04	connector with valve for pressure gauge 1/8" NPT + 2x 1/4" SAE
47-321101-05	valve for pressure gauge, CASTEL 8320/21, 1/4" SAE x 1/8" NPT
47-321101-06	o-rings Mastercool 85215, 4 pcs
47-321101-07	seal and seat assembly Mastercool 85216



### Vacuum gauge

Code	Range [mbar]	Ø [mm]	Description
47-321150-60	0 / 1000	80	vacuum gauge Wigam, back connection 1/8" NPT
47-321150-80	0 / 1000	80	vacuum gauge Wigam, lower connection 1/8" NPT
47-321150-80V	0 / 1000	80	vacuum gauge Wigam, with valve, connection 1/4" SAE x 3/8"
47-321150-80VP	0 / 1000		vacuum gauge, with valve, connection 3x 1/4" SAE
47-329011-215	complete kit with solenoid valve, vacuum gauge and electrical cable Wigam K-EVC		
47-329011-402	digital vacuum gauge Mastercool 98061, 9V dc, connection: 1/4" SAE		
47-321150-05605520	digital vacuum gauge Testo 552		

### Hose + quick coupler

Code	Dimension [mm]	Description	
47-327003-00	450	LP	1/4" SAE + quick coupler
47-327003-01	450	LP	1/4" SAE 90° + quick coupler
47-327003-02	450	HP	1/4" SAE + quick coupler
47-327003-03	450	HP	1/4" SAE 90° + quick coupler
47-327003-06		connecting hose with quick coupling	

**Quick couplers A/C**

Code	Type	Description
47-327201-00	LP	R134a, 1/4" SAE x 13 mm
47-327201-01	LP + HP	1/4" x 13 mm, 1/4" x 16 mm
47-327201-02	LP	R134a, 14 mm-F x 13 mm
47-327201-03	HP	1/4" x 16 mm
47-327201-05	HP	1/2" ACME – F 1/4" x 16 mm
47-327201-06	LP	R134a, E-Z Snap™ 1/4" FL-M x 13 mm
47-327201-07	HP	R134a, E-Z Snap™ 1/4" FL-M x 16 mm
47-327201-08	LP	R134a, 1/4" FL-M x 13 mm
47-327201-09	HP	R134a, 1/4" FL-M x 16 mm
47-327201-10	LP	R134a, 3/8" FL-M x 13 mm
47-327201-11	HP	R134a, 3/8" FL-M x 16 mm
47-327201-13	HP	R134a, 14 mm-F x 16 mm
47-327201-24	LP + HP	R134a, R1234yf, 1/4" SAE
47-327201-25	LP + HP	R134a, R1234yf, M14 x 1,5
47-327201-48	HP	R-1234yf, M12 x 1,5
47-327201-49	LP	R-1234yf, M12 x 1,5
47-327201-AA	HP	R134a, A/C
47-9345-901		quick-lock fitting, G6, connection 5/8" - 18 UNF, hose 5/16"
47-9345-902		quick-lock fitting, G10, connection 7/8" - 14 UNF, hose 1/2"
47-9390-108	HP	special quick-lock fitting, + reducers (BMW, FORD, VOLVO)
47-3274-14-14M		reductive coupling 180° 1/4" SAE x M14 x 1,5 mm - M


**Quick connectors**

Code	Description
47-327200-00	quick connector Hansen, connection 1/4" NPT x 6 mm, WIGAM
47-327200-01	quick connector Hansen, connection 1/4" NPT x 8 mm, WIGAM
47-327200-02	quick connector Hansen, connection 1/4" NPT x 6 mm with valve, WIGAM
47-327200-03	quick connector Hansen, connection 1/4" NPT x 8 mm with valve, WIGAM

### Charging scales

Code	Type	Weighting range [kg]
47-329010-01	refrigerant charging scale	3
47-329010-50	refrigerant charging scale TIF 90 10 A	50
47-329010-100A	refrigerant charging scale Value VES-100A	100
47-329010-100B	refrigerant charging scale Value VES-100B	100
47-329010-80	refrigerant charging scale Mastercool 98 200 A	110
47-329010-90	wireless refrigerant charging scale Mastercool 98315 with solenoid valve	110
47-329010-00	charging solenoid module	
47-329010-10	support for refrigerant bottles for R600, connection 7/16" x 1/4" SAE	
47-329010-11	support for refrigerant bottles for R600, connection 1/4" x 1/4" SAE	

47-329010-01	47-329010-50	47-329010-100A
		
47-329010-100B	47-329010-80	47-329010-90
		
47-329010-00	47-329010-10	47-329010-11
		

### Refrigerant / recovery cylinders

Code	Description
47-326000-14	kit 2 adapters for freon cylinders w/gasket, 1/4" SAE
47-326000-516	kit 2 adapters for freon cylinders w/gasket, 5/16" SAE
47-326000-00	adapter for freon cylinders, 1/4" SAE
47-326000-1234YF	adapter for freon cylinders, 1/2" ACME R1234yf

Code	Description
47-323006-04	valve for bottles for gas R600a, 750 ml, 7/16" SAE (F) - 1/4" SAE (M)
47-326000-01	gasket for adapter, set of 10 pcs
47-3260-SERVISNI	12,5 l refillable bottle without refrigerant with liquid and vapour valve Wigam / Mastercool
47-3260-SERVISNI-27	27,2 l refillable bottle without refrigerant with liquid and vapour valve Mastercool
47-3260-SERVIS-TOP	heater with thermostat for cylinders, L = 700 mm, H = 80 mm, 400 W, 60°C

**Recovery units**

Code	Description	Motor	Dimensios [mm]	Weight [kg]
<b>recovery units</b>				
47-329013-00	recovery unit Mastercool, for all refrigerants	1/2 Hp	432x 254 x 305	16
47-329013-02	recoverymate Mastercool 69500, includes hoses		430 x 100 x 380	5,5
47-329013-01	recovery unit Value VRR12L, for all refrigerants	3/4 Hp	400 x 250 x 355	13,0
47-329013-08	recovery unit Value VRR24L, for all refrigerants	1 Hp	450 x 250 x 355	13,5
47-329013-09	recovery unit Value VRR24L-OS, with oil separator	1 Hp	450 x 250 x 355	14,7
47-329013-10	recovery unit Value VRR12M, R1234yF, R32	3/4 Hp	304 x 202 x 260	7,8
47-329013-11	recovery unit Value VRR24M, R1234yF, R32	1 Hp	380 x 250 x 360	10,0
<b>flushing station</b>				
47-329013-03	flushing station Wigam Flush 1 Plus			
47-329013-04	kit of adapters for flushing station Wigam Flush 1 Plus			
47-329013-05	flushing station Wigam			
47-329013-06	flushing station Mastercool			
47-329013-07	special cone adapter for flush gun Errecom			
47-9392-062	flush gun Errecom			
<b>accessories</b>				
47-329012-15	filter drier for recovery unit Wigam (Wurth), connection 1/4" SAE			
47-329012-17	filter drier „high capacity“ for recovery unit Wigam, EASYREC120R100, XH412			

Code		Recovery rate [kg/min]		
		R-12, R134a, R401C, R500	R401A, R407C, R407D, R408A, R409A, R412A	R402A, R404A, R407A, R407B, R410A, R507
47-329013-00	vapor	0,23	0,28	
	liquid	2,16	3,43	
	push/pull	5,30	8,30	
47-329013-01	vapor	0,20	0,25	0,25
	liquid	1,60	1,80	2,20
	push/pull	4,60	5,60	6,30
47-329013-08	vapor	0,40	0,50	0,50
	liquid	3,00	3,50	3,50
	push/pull	7,50	8,50	9,50
47-329013-09	vapor	0,40	0,50	0,50
	liquid	3,00	3,50	3,50
	push/pull	7,50	8,50	9,50
47-329013-10	vapor	0,20	0,25	0,25
	liquid	1,76	1,98	2,42
	push/pull	4,60	5,60	6,30
47-329013-11	vapor	0,40	0,50	0,50
	liquid	3,30	3,85	3,85
	push/pull	7,50	8,50	9,50

47-329012-15	47-329012-17	47-329013-00
		
47-329013-02	47-329013-01	47-329013-08
		
47-329013-09	47-329013-10	47-329013-11
		

47-329013-03	47-329013-04	47-329013-05
		
47-329013-06	47-329013-07	47-9392-062
		

### Double stage vacuum pumps

WIGAM

Code	Type	Vacuum gauge	Displacement [l/min]
47-329011-200	RS 3D	without	46
47-329011-201	DIP 402	without	90
47-329011-202	RS 3DE/V	with	46
47-329011-203	DIP 402E/V	with	90
47-329011-204	RS 9DE/V	with	180
<b>accessories</b>			
47-329011-215	K-EVC	kit for vacuum pump Wigam K-EVC, with solenoid valve, vacuum gauge and electrical cable	
47-329011-999	P2-DIP	sight glass for vacuum pump P2-DIP	

Type	Power supply	Nomin. power [W]	Protection degree	Oil charge [ml]	Connection	Dimensions [mm]	Weight [kg]
RS3D	230/1/150	120	IP54	400	1/4" NPT-F	267x150x250	6,40
DIP 402	230/1/150	240	IP54	300	1/4" NPT-F	285x150x260	10,00
RS3DE/V	230/1/150	120	IP54	300	1/4-5/16-3/8" SAE	267x150x250	6,9
DIP402E/V	230/1/150	240	IP54	300	1/4-5/16-3/8" SAE	285x150x260	10,5
RS9DE/V	230/1/150	370	IP54	450	1/4-5/16-3/8" SAE	350x150x280	12
<b>accessories</b>							
Kit K-EVC					1/4-5/16-3/8" SAE		0,8
P2-DIP						Ø 26	

47-329011-200	47-329011-201	47-329011-202	47-329011-203
			
47-329011-204	47-329011-215	47-329011-999	
			

**Double stage vacuum pumps**
**MASTERSCOOL**

Code	Type	Motor	Vacuum gauge	Displacement [l/min]
47-329011-300	90060-220	1/6 Hp	without	35
47-329011-302	90065-220	1/3 Hp	without	119
47-329011-303	90067-220	1/2 Hp	without	178
47-329011-305	90063-2V-220	1/4 Hp	without	71
47-329011-306	90066-2V-220	1/3 Hp	without	141
47-329011-307	90070-2V-220	1/2 Hp	without	236
<b>accessories</b>				
47-329011-402	digital vacuum gauge Mastercool 98061			

Type	Power supply	Connection	Dimensions l x w x h [mm]	Weight [kg]
90060-220	220/50Hz	1/4"SAE+ 1/2" ACME	295x115x215	5,4
90065-220	220/50Hz	1/4", 3/8"SAE+1/2ACME	370x155x275	15,0
90067-220	220/50Hz	1/4", 3/8"SAE+1/2ACME	410x155x275	15,4
90070-220	220/50Hz	1/4", 3/8"SAE+1/2ACME		16,3
90063-2V-220	110/220, 60/50Hz	1/4", 3/8"SAE+1/2ACME	350x143x265	10,7
90066-2V-220	110/220, 60/50Hz	1/4", 3/8"SAE+1/2ACME	350x143x265	11,2
90070-2V-220	110/220, 60/50Hz	1/4", 3/8"SAE+1/2ACME	380x160x285	14,8




### Double stage vacuum pumps

### VALUE

Code	Type	Vacuum gauge	Displacement [l/min]	Refrigerant
47-329011-503	V-i220SV	with	51	R410A, R407C, R134a, R12, R22
47-329011-500	V-i240SV	with	100	R410A, R407C, R134a, R12, R22
47-329011-501	V-i260SV	with	142	R410A, R407C, R134a, R12, R22
47-329011-502	V-i280SV	with	198	R410A, R407C, R134a, R12, R22
47-329011-507	VE280ND	without	226	R410A, R407C, R134a, R12, R22
47-329011-508	VE2100ND	without	283	R410A, R407C, R134a, R12, R22
47-329011-509	V-i2120	without	283	R32, R1234yf
47-329011-505	VRD-24	without	400	R410A, R407C, R134a, R12, R22
47-329011-506	VRD-30	without	500	R410A, R407C, R134a, R12, R22
47-329011-504	V-i215S-M	without	42	R410A, R407C, R134a, R12, R22
47-329011-511	V-i240Y-R32	with	100	R32, R1234yf
47-329011-512	V-i260Y-R32	with	142	R32, R1234yf
47-329011-513	V-i280Y-R32	with	198	R32, R1234yf
<b>accessories</b>				
47-329011-510	vacuum pump adapter „T“, connection: 1/4" - 3/8" SAE			

Type	Power supply	Oil charge [ml]	Connection	Dimensions l x w x h [mm]	Weight [kg]
V-i220SV	230V/50Hz	200	1/4"	318 x 124 x 265	9
V-i240SV	230V/50Hz	325	1/4"	338 x 138 x 275	11
V-i260SV	230V/50Hz	580	1/4"	395 x 145 x 318	16,6
V-i280SV	230V/50Hz	500	1/4"	395 x 145 x 318	17
VE280ND	110V/60Hz, 230V/50Hz	500	1/4"+ 3/8"	395 x 145 x 257	16,2
VE2100ND	110V/60Hz, 230V/50Hz	590	1/4"+ 3/8"	395 x 145 x 257	16,7
V-i2120	230V/50Hz	500	1/4"+ 3/8"	345 x 135 x 280	11,5
VRD-24	380V/50Hz	1,3 / 2	-	560 x 188 x 272	35
VRD-30	380V/50Hz	1,3 / 2	-	560 x 188 x 272	43
V-i215S-M	230V/50Hz	110	1/4"	240 x 88 x 183	4
V-i240Y-R32	230V/50Hz	325	7/16"	338 x 138 x 248	11
V-i260Y-R32	230V/50Hz	460	7/16"	395 x 145 x 270	16,6
V-i280Y-R32	230V/50Hz	500	7/16"	395 x 145 x 270	17



47-329011-500	47-329011-501	47-329011-502	47-329011-503
			
47-329011-504	47-329011-505	47-329011-506	47-329011-507
			
47-329011-508	47-329011-509	47-329011-510	47-329011-511
			
47-329011-512	47-329011-513		
			

**Leak detectors and accessories**

Code	Description
<b>TESTO</b>	
47-329015-00	leak detector TESTO 316-4
47-329015-02	battery for leak detector, NiMH HR03 AAA 7,2 V 1000 mAh
47-329015-01	heated sensor for leak detector TESTO 316-4
<b>TIF</b>	
47-329015-13	replacement sensor for leak detector TIF XP-2
<b>Wigam</b>	
47-329015-16	electronic leak detector WIGAM ELD-H, 09001081
47-329015-17	heated sensor WIGAM ELD-H, 09050073
47-329015-18	heated sensor electronic leak detector WIGAM Discovery, 09001084
47-329015-19	heated sensor with filter for WIGAM Discovery, 09050075
<b>Mastercool</b>	
47-329015-55100	electronic leak detector Mastercool 55100
47-329015-55200	electronic / UV leak detector Mastercool 55200
47-329015-55500	electronic / UV leak detector Mastercool 55500
47-329015-55750	combustible gas / UV leak detector Mastercool 55750
47-329015-55800	refrigerants leak detector Mastercool 55800
47-329015-55100-SEN	replacement sensor Mastercool 55100/55200-SEN
47-329015-55500-SEN	replacement sensor Mastercool 55500-SEN

47-329015-00	47-329015-01	47-329015-02
		
47-329015-13	47-329015-16	47-329015-17
		
47-329015-18	47-329015-19	47-329015-55100
		
47-329015-55200	47-329015-55500	47-329015-55750
		
47-329015-55800	47-329015-55100-SEN	47-329015-55500-SEN
		






### UV lights and accessories

Code	Description
47-329014-1230	UV light 9 LED
47-329014-53517-UV	UV light 17 LED
47-329014-53518-UV-220	rechargeable UV light 154-170 $\mu\text{W}/\text{cm}^2$ , LED, Mastercool 53518-UV
47-329014-53414	battery charger for UV light Mastercool 53411, 50W / 12V
47-329014-53500-C	compact UV leak locator kit 50W / 12V + accessories
47-329014-53100-C	compact UV leak locator kit 100W / 12V + accessories
47-329014-53515	UV light Mastercool, MACH IV, 4 LED + safety glasses
47-329014-53312	UV mini light 50W / 12 V + safety glasses
47-329014-53312-B	light bulb for UV light Mastercool 53312, 50W / 12V
47-329014-53012	UV swivel head light Mastercool, 100W / 12V
47-329014-53012-B	light bulb for UV lights Mastercool 53012 and 53100, 100W
47-329014-53012-L	lens for UV lights Mastercool 53012 and 53100
47-329014-32398	safety glasses for UV light
47-329014-1267	UV light flexible ERRECOM + safety glasses
47-329014-53314	refrigerant dye remover Mastercool 120 ml

47-329014-1230	47-329014-53517-UV	47-329014-53518-UV-220
		
47-329014-53414	47-329014-53500-C	47-329014-53100-C
		
47-329014-53515	47-329014-53312	47-329014-53312-B
		
47-329014-53012	47-329014-53012-B	47-329014-53012-L
		
47-329014-32398	47-329014-1267	47-329014-53314
		

**Dye / oil injectors**

Code	Description
47-329014-32376	dye / oil injector Mastercool
47-329014-90375	dye / oil injector Mastercool 1/4" SAE F x 1/4" SAE M
47-329014-53223	dye / oil injector Mastercool - including a replaceable cartridge with 25 apps of dye
47-329014-53322	refillable dye / oil injector Mastercool, 1/4" SAE Auto Shut-off valve connection, +25 apps of dye
47-329014-53123-A	refillable universal dye / oil injector Mastercool

47-329014-32376	47-329014-90375	47-329014-53223
		
47-329014-53322	47-329014-53123-A	
		

**Fixed gas leak detector**

Murco

Code	Producer	Description
47-329015-MGS	Murco	<p>fixed gas leak detector, Murco detect:</p> <p>all refrigerant gases including: Ammonia, Carbon Dioxide, Hydrocarbons, Halocarbons - HFCs, HCFCs, CFCs</p> <p>combustible gases: Methane, LPG, Propane, Butane and Hydrogen</p> <p>toxic gages: Carbon Dioxide and Ammonia, Hydrogen Sulphide in sewage treatment and Carbon Monoxide in underground car parks</p> <p>volatile organic compounds: Acetone, Benzene, Carbon Tetrachloride, Chloroform, Ethanol, Toluene, Trichloroethylene</p> <p>Power supply: 12/24V d.c./a.c.                      Analogue outputs: 4-20 mA, 2-10 V, 0-10 V, 1-5 V, 0-5 V                      Digital outputs – 1 relay 1A/24V d.c./a.c., selectable delay 0, 1, 5, 10 min                      IP41 or IP66                      dimensions: 86 x 142 x 53 mm                      weight: 180 g</p>

**Fixed gas leak detector**

Danfoss

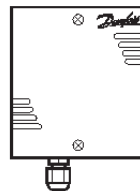
**080Zxxxx**

Fixed gas leak detectors with semiconductor technology refrigerant leak detection.  
 Alarm limits: 0-1000 ppm.  
 Analogue outputs: 0-5V, 1-5V, 0-10V, 2-10V, 4-20 mA.  
 Digital outputs: relay 1A / 24V DC / 120V AC, adjustable delay 0, 1, 5, 10 min



**148H5110**

Fixed gas leak detector.  
 Alarm limits: 0-1000 ppm.  
 Analogue outputs: 0-5V, 0-10V, 4-20 mA  
 Digital outputs: volt free contacts: load 1A, 24 V a.c./d.c.



Code	Type	Refrigerant	Temperature range [°C]	Enclosure rating	Supply voltage
47-32080Z2076	080Z2076	R407F	-20 to +50	IP41	12/24 V AC/DC
47-32080Z2077	080Z2077		-40 to +50	IP66	
47-32080Z2087	080Z2087	R410A	-20 to +50	IP41	
47-32080Z2088	080Z2088		-40 to +50	IP66	
47-32080Z2089	080Z2089	R134a	-40 to +50	IP66	
47-32080Z2092	080Z2092		-20 to +50	IP41	
47-32080Z2093	080Z2093	R407A	-20 to +50	IP41	
47-32080Z2094	080Z2094		-40 to +50	IP66	
47-32080Z2098	080Z2098	R404A, R507	-20 to +50	IP41	
47-32080Z2099	080Z2099		-40 to +50	IP66	
47-32148H5110	148H5110	R404A, R134a, R407C, R507	-20 to +50	IP30	12/24V V a.c. 12/30 V d.c.

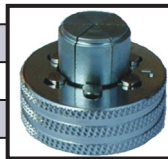
**Service tools -  
flaring tools**

Code	Description	Producer	Dimensions
47-329210-00	standard 45°flaring tool	Mastercool	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"
47-329210-03	45°flaring & swaging tool set	Mastercool	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4"
47-329210-04	45°flaring & swaging tool set	Champ-air	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4"
47-329210-05	flaring tool + tube cutter	Champ-air	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8"
47-329210-12	eccentric flaring tool	Champ-air	5/16", 1/4", 3/8", 1/2", 5/8", 3/4"
47-329210-01	standard 45°flaring tool	Mastercool	4, 6, 8, 10, 12, 15, 16 mm
47-329210-08	flaring & swaging tool set	Wigam	4, 6, 8, 10, 12, 14, 16, 22 mm
47-329210-10	eccentric flaring tool (70057-M)	Mastercool	6, 8, 10, 12, 14, 16, 18 mm
47-329210-11	eccentric flaring tool + tube cutter	Champ-air	6 - 19 mm, 1/4" - 3/4"
47-329210-13	eccentric flaring tool	Value	6 - 19 mm, 3/16" - 3/4"
47-329210-14	eccentric flaring tool + tube cutter	Champ-air	6 - 19 mm, 1/4" - 3/4"
47-329210-30	aku flaring tool VET-19-S	Value	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"
47-329210-31	bars for metric hoses for aku flaring tool VET- 19-S	Value	6, 8, 10, 12, 14, 16 mm

47-329210-00	47-329210-01	47-329210-03
		
47-329210-04	47-329210-05	47-329210-08
		
47-329210-10	47-329210-11	47-329210-12
		
47-329210-13	47-329210-14	47-329210-30
		

**Service tools -  
expanders**

Code	Type	Dimensions
<b>swaging punches</b>		
47-329240-00	swaging punch - inch	1/4", 5/16", 3/8", 3/4", 1/2, 5/8"
47-329240-30	swaging punch - metric	8, 10, 12, 14, 16 mm
47-329240-20	set of swaging punches - inch	1/4", 5/16", 3/8", 3/4", 1/2, 5/8"
47-329240-01	set of swaging punches - inch	1/4", 5/16", 3/8", 1/2", 5/8"
<b>expanders</b>		
47-329240-02	hydraulic flaring and expanding kit + heads	10, 12, 15, 16, 18, 22, 28mm
47-329240-03	hydraulic flaring and expanding kit + heads	3/8", 5/8", 3/4", 7/8", 1.1/8"
47-329240-17	mechanic flaring and expanding kit + heads	10, 12, 15, 16, 18, 22 mm
47-329240-22	mechanic tube expander SH + heads	3/8", 1/2", 3/4", 5/8", 7/8"
47-329240-25	mechanic tube expander Value	3/8", 1/2", 3/4", 5/8", 7/8"
<b>expander heads</b>		
47-329240-26	head for tube expander	6 mm
47-329240-23	head for tube expander	8 mm
47-329240-04	head for tube expander	10 mm
47-329240-05	head for tube expander	12 mm
47-329240-14	head for tube expander	14 mm
47-329240-06	head for tube expander	15 mm
47-329240-13	head for tube expander	16 mm
47-329240-07	head for tube expander	18 mm
47-329240-08	head for tube expander	22 mm
47-329240-09	head for tube expander	28 mm
47-329240-15	head for tube expander	35 mm
47-329240-16	head for tube expander	42 mm
47-329240-24	head for tube expander	54 mm
47-329240-10	head for tube expander	3/8"
47-329240-19	head for tube expander	1/2"
47-329240-11	head for tube expander	5/8"
47-329240-12	head for tube expander	3/4"
47-329240-21	head for tube expander	7/8"
47-329240-18	head for tube expander	1"



**Service tools -  
tube cutters**

Mastercool

Code	Range	
<b>tube cutters</b>		
47-329220-07	1/4" - 3 1/2"	6 - 89 mm
<b>replacement cutter wheels</b>		
47-329220-07CB	replacement cutter wheel 6 - 76 mm	

**Service tools -  
tube cutters**

Universal

Code	Range	
<b>tube cutters</b>		
47-329220-00	1/8" – 5/8"	
47-329220-03	1/8" – 1.1/8"	
47-329220-04	1/8" – 1.5/8"	
47-329220-05	3/8" – 2.5/8"	
<b>replacement cutter wheels</b>		
47-329220-08	replacement cutter wheel 18 mm	
47-329220-09	replacement cutter wheel 15 mm	
47-329220-10	replacement cutter wheel 18,6 mm	

**Service tools -  
tube cutters**

Refco

Code	Range
47-329220-11	3 - 16 mm
47-329220-12	3 - 22 mm
47-329220-13	10 - 28 mm
47-329220-14	3 - 28 mm
47-329220-15	7 - 41 mm
47-329220-16	10 - 62 mm
47-329220-19	3 - 25 mm

**Service tools -  
tube cutters**

Value

Code	Range
<b>tube cutters</b>	
47-329220-20	3 - 19 mm
47-329220-21	4 - 28 mm
47-329220-22	4 - 28 mm
47-329220-23	4 - 47-32mm
47-329220-24	6 - 42 mm
47-329220-25	6 - 67 mm
<b>replacement cutter wheels</b>	
47-329220-27	replacement cutter wheel 3 - 19 mm
47-329220-28	replacement cutter wheel 4 - 28 mm
47-329220-29	replacement cutter wheel 6 - 67 mm

### Service tools - reamers

Code	Description
47-329260-02	plastic inner / outer reamer SH, 3/16" - 1 1/2"
47-329260-08	metallic inner / outer reamer - zinc plated SH, 1/4" - 1 5/8"
47-329260-11	pen reamer, Wigam
47-329060-09	alu inner / outer reamer SH, 5/16" - 2 1/8"

### Service tools - tube benders







Code	Type	Dimensions
47-329230-14	spring style tube bender	1/4"
47-329230-516	spring style tube bender	5/16"
47-329230-38	spring style tube bender	3/8"
47-329230-12	spring style tube bender	1/2"
47-329230-58	spring style tube bender	5/8"
47-329230-34	spring style tube bender	3/4"
47-329230-14R	lever tube bender	1/4"
47-329230-516R	lever tube bender	5/16"
47-329230-38R	lever tube bender	3/8"
47-329230-12R	lever tube bender	1/2"
47-329230-34R	lever tube bender	3/4"
47-329230-58R	lever tube bender	5/8"
47-329230-00	lever tube bender 180°	1/4", 5/16", 3/8"
47-329230-06	lever tube bender 180°	6, 8, 10 mm
47-329230-03	ratchet metric tube bender 180°	8, 10, 12, 16 mm
47-329230-02	ratchet metric tube bender kit	6, 8, 10, 12, 14, 16 mm
47-329230-05	ratchet tube bender kit	3/8", 1/2", 5/8", 3/4", 7/8"
47-329230-10	ratchet tube bender kit	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
47-329230-01	ratchet metric tube bender Wigam	6, 8, 10, 12, 14, 16 mm
47-329230-04	ratchet metric tube bender Wigam	10, 12, 14, 16, 18, 22 mm
47-329230-0006	lever tube bender	6 mm
47-329230-0008	lever tube bender	8 mm
47-329230-0010	lever tube bender	10 mm
47-329230-0012	lever tube bender	12 mm
47-329230-0016	lever tube bender	16 mm
47-329230-0022	lever tube bender	22 mm







**Welding**








Code	Description
47-329016-50	complete autogen welding rack TURBOSET 90, include oxygen and maxigas cartridge, 3050 [°C]
47-329016-51	oxygen cartridge TURBOSET
47-329016-52	maxigas cartridge TURBOSET, 610 ml, 350 g
47-329016-54	cartridge TURBOSET - PROPAN - BUTAN (1450, CASTOLIN), 380 ml, 220 g
47-329016-55	accessories for TURBOSET 90, handgrip with head, face 80 lt, check valves and hoses WIGAM
47-329016-60	telescopic inspection mirror REFCO, L = 185 - 500 mm, d = 38 mm, 14225
47-329016-61	telescopic inspection mirror WIGAM, L = 220 - 490 mm, d = 38 mm
47-329016-62	telescopic inspection mirror WIGAM, L = 220 - 490 mm, 50 x 90 mm











**Service tools - wrenches**

Code	Type	Dimensions / description	Picture
47-329250-00	offset ratchet wrench	3/16", 1/4", 5/16", 3/8"	
47-329250-01	ratchet wrench	3/16", 1/4", 1/2", 9/16"	
47-329250-08	offset ratchet wrench Refco	1/4", 3/8", 3/16, 5/16"	
47-329250-09	ratchet wrench Refco	1/4", 3/8", 3/16, 5/16"	
47-329250-02	universal master kit	R-12, R-134a	
47-329250-07	core screwer tool WIGAM CTV1		

Code	Type	Dimensions / description	Picture
47-329250-03	valve core remover / installer	R-12, R-134a	
47-329250-04	universal valve core remover	R-12, R-134a	
47-329250-05	universal large bore remover	R-134a	
47-329250-06	universal valve core remover / installer kit	R410A	

### Service tools - the others

Code	Type	Picture
47-329260-05	fin comb metal SH	
47-329260-03	fin comb plastic SH	
47-329290-08	capillary tube cutter SH	
47-329290-07	capillary tube cutter Wigam	
47-329260-01	hose piercing plier Wigam, PT-109, 1/4 - 1/2"	
47-329260-06	hose piercing plier REFCO 14210	
47-329290-06	capillary tube cutter, SH	

Code	Type	Picture
47-329260-10	cutter for quadra hose Gomax	
47-329260-09	hand plier for quadra DN2 hose Gomax	
47-329260-00	pinch-off plier SH	
47-329290-13	capillary check Wigam	
47-329290-14	automotive refrigerant hose cutter Mastercool, 80013	
47-329290-17	pipe cutters PVC, up to 63 mm, SH	
47-329290-12	pipe cutters PVC SH, up to 35 mm	
47-329290-15	pipe cutters PVC SH, up to 42 mm	
47-329290-16	oil charging pump, for oil containers up to 19 l Wigam	
47-329280-91334	charging adapter repair kit, 55 pcs of replacement gaskets, o.-rings and depressors	



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