

Technical Data Sheet

Compressor model **GP14CB**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R134a**

APPLICATION

Application Low Back Pressure
 Refrigerant R134a
 Evaporating Temp. -35,0 °C to -10,0 °C
 Expansion Capillar
 Comp. Cooling Fan cooled
 Max. ambient temp. 43,0 °C
 Compatible refriger. R1234yf

COMPRESSOR

Displacement 14,17 cm³
 Diameter 31,19 mm
 Stroke 18,54 mm
 Net Weight 10,21 Kg
 Oil type ISO VG 32 ESTER
 Oil charge 470 cm³

MOTOR

Nominal Power 3/8 hp
 Voltage/Frequency 220-240V 50Hz
 Voltage range 187-255 V
 Type RSIR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 16,50 A
 Max. Cont. Current (MCC) 3,20 A
 Main W. resist. at 25°C 8,50 Ω
 Start W. resist. at 25°C 29,00 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	270 kCal/h	228 W
COP	1,16 W/W	0,90 W/W
EER	1,00 kCal/Wh	0,78 kCal/Wh
Input Power	270 W	254 W
Current	1,80 A	1,75 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Relay	Option 1			
Reference	2014 145.			
Pick-Up	7,10 A			
Drop-Out	6,00 A			
Protector	Option 1	Option 2		
Reference	MRT40AMK	T0137		
Current	9,50 A	9,50 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 61,00 °C	110,00 / 61,00 °C		

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	126	174	1,52	0,84	0,72
40	-30	192	209	1,61	1,07	0,92
40	-25	270	247	1,73	1,27	1,09
40	-23,3	299	261	1,77	1,33	1,15
40	-20	360	288	1,86	1,45	1,25
40	-15	463	333	2,02	1,62	1,39
40	-10	578	380	2,22	1,77	1,52

45	-35	119	171	1,51	0,81	0,70
45	-30	183	209	1,61	1,02	0,88
45	-25	260	249	1,73	1,21	1,04
45	-23,3	289	264	1,78	1,28	1,10
45	-20	350	293	1,88	1,39	1,19
45	-15	451	340	2,05	1,54	1,33
45	-10	565	390	2,26	1,69	1,45

50	-35	112	168	1,51	0,78	0,67
50	-30	175	208	1,61	0,98	0,84
50	-25	251	251	1,74	1,16	1,00
50	-23,3	280	267	1,79	1,22	1,05
50	-20	339	298	1,90	1,32	1,14
50	-15	440	347	2,08	1,47	1,27
50	-10	553	400	2,31	1,61	1,38

55	-35	105	165	1,50	0,74	0,64
55	-30	167	208	1,61	0,94	0,80
55	-25	242	254	1,75	1,11	0,95
55	-23,3	270	270	1,80	1,16	1,00
55	-20	329	303	1,91	1,26	1,09
55	-15	428	355	2,11	1,40	1,21
55	-10	540	410	2,35	1,53	1,32

60	-35	98	162	1,49	0,70	0,60
60	-30	159	207	1,61	0,89	0,77
60	-25	233	256	1,75	1,06	0,91
60	-23,3	260	273	1,81	1,11	0,95
60	-20	318	307	1,93	1,20	1,04
60	-15	417	362	2,14	1,34	1,15
60	-10	527	420	2,40	1,46	1,26

65	-35	91	159	1,49	0,67	0,57
65	-30	151	207	1,61	0,85	0,73
65	-25	223	258	1,76	1,01	0,87
65	-23,3	251	276	1,82	1,06	0,91
65	-20	308	312	1,95	1,15	0,99
65	-15	405	370	2,17	1,27	1,10
65	-10	515	430	2,44	1,39	1,20

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	137	174	1,52	0,79	0,68
40	-30	212	209	1,61	1,02	0,88
40	-25	299	247	1,73	1,21	1,05
40	-23,3	331	261	1,77	1,27	1,10
40	-20	398	288	1,86	1,38	1,19
40	-15	508	333	2,02	1,53	1,32
40	-10	629	380	2,22	1,66	1,43

45	-35	125	171	1,51	0,73	0,63
45	-30	194	209	1,61	0,93	0,81
45	-25	276	249	1,73	1,11	0,96
45	-23,3	306	264	1,78	1,16	1,00
45	-20	369	293	1,88	1,26	1,09
45	-15	473	340	2,05	1,39	1,20
45	-10	589	390	2,26	1,51	1,31

50	-35	112	168	1,51	0,67	0,58
50	-30	176	208	1,61	0,85	0,73
50	-25	252	251	1,74	1,00	0,87
50	-23,3	280	267	1,79	1,05	0,91
50	-20	340	298	1,90	1,14	0,98
50	-15	439	347	2,08	1,26	1,09
50	-10	549	400	2,31	1,37	1,19

55	-35	99	165	1,50	0,60	0,52
55	-30	158	208	1,61	0,76	0,66
55	-25	228	254	1,75	0,90	0,78
55	-23,3	255	270	1,80	0,94	0,82
55	-20	310	303	1,91	1,03	0,89
55	-15	404	355	2,11	1,14	0,98
55	-10	509	410	2,35	1,24	1,07

60	-35	87	162	1,49	0,53	0,46
60	-30	140	207	1,61	0,67	0,58
60	-25	205	256	1,75	0,80	0,69
60	-23,3	230	273	1,81	0,84	0,73
60	-20	281	307	1,93	0,92	0,79
60	-15	369	362	2,14	1,02	0,88
60	-10	469	420	2,40	1,12	0,96

65	-35	74	159	1,49	0,47	0,40
65	-30	122	207	1,61	0,59	0,51
65	-25	181	258	1,76	0,70	0,61
65	-23,3	204	276	1,82	0,74	0,64
65	-20	252	312	1,95	0,81	0,70
65	-15	335	370	2,17	0,91	0,78
65	-10	429	430	2,44	1,00	0,86

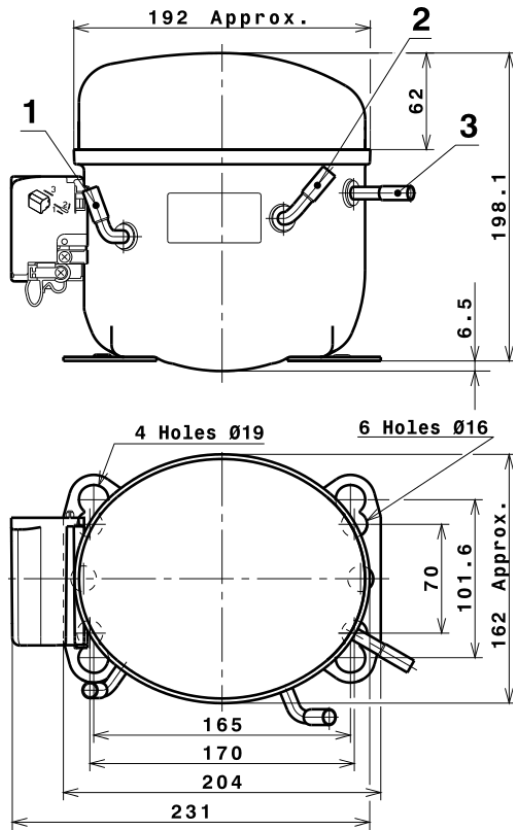
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.311,2379150490	371,8643004073	2,2400062925	23,130675497782
2	38,6288882731	7,1189994367	0,0417383174	0,75671711565323
3	-10,4748620639	3,1120700126	0,0134840162	-0,071493264201953
4	0,2265916648	0,0649455057	0,0006633742	0,0062174514587995
5	-0,2264579581	0,1064277635	0,0004284969	-0,0011056208537831

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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Technical Data Sheet

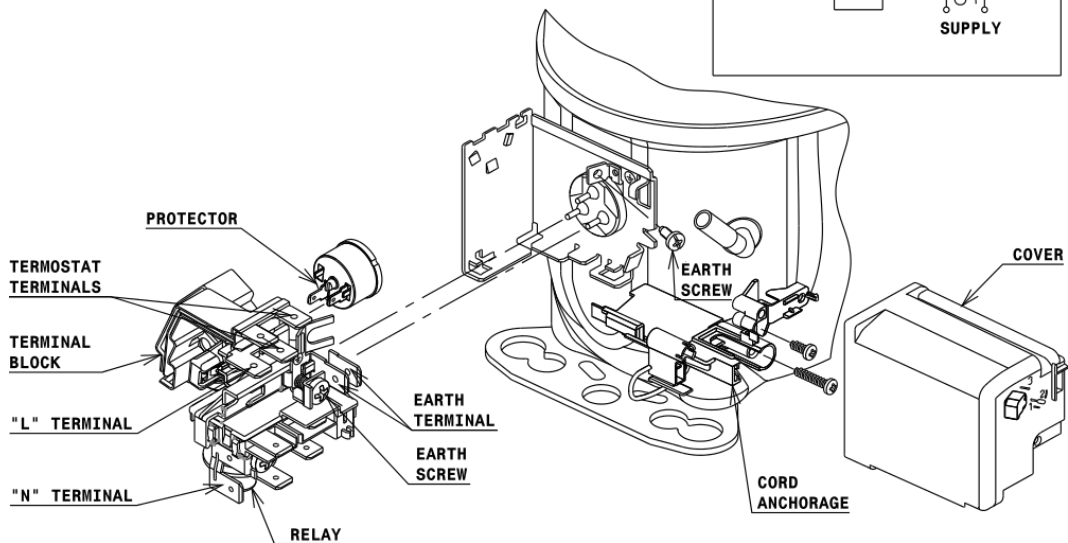
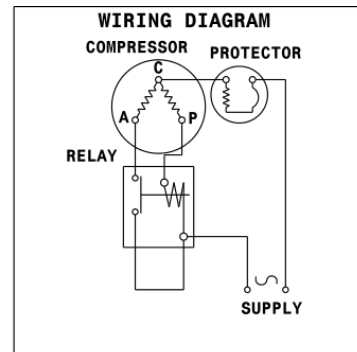
COMPRESSOR DIMENSIONS



DESIGNATION	INTERNAL DIAM.
1 Suction/Service	8,1 mm
2 Service/Suction	8,1 mm
3 Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSIR CONNECTION (RELAY) (L, P ranges)



Technical Data Sheet

FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø16 holes (170x70 net)



AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP

