

Technical Data Sheet

Compressor model **L57TN**
 Voltage **200-220/230V 50/60Hz ~1**
 Refrigerant **R22**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	5,68 cm ³	Nominal Power	1/5 hp
Refrigerant	R22	Diameter	22,00 mm	Voltage/Frequency	230V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	14,92 mm	Voltage range	207-253 V
Expansion	Capillar/Valve	Net Weight	9,50 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 46 MINER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	295 cm ³	Locked Rotor Amps (LRA)	12,20 A
				Max. Cont. Current (MCC)	3,60 A
				Main W. resist. at 25°C	6,63 Ω
				Start W. resist. at 25°C	33,24 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	624 kCal/h	618 W
COP	1,91 W/W	1,68 W/W
EER	1,64 kCal/Wh	1,45 kCal/Wh
Input Power	380 W	369 W
Current	2,10 A	2,06 A



TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 μF 330 V			
Relay	Option 1			
Reference	2014 135.			
Pick-Up	5,80 A			
Drop-Out	4,95 A			
Protector	Option 1	Option 2		
Reference	MRT26AMK	T0181		
Current	11,10 A	11,10 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 61,00 °C	105,00 / 61,00 °C		

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	195	194	1,38	1,17	1,01
40	-20	248	214	1,45	1,35	1,16
40	-15	314	234	1,53	1,56	1,34
40	-10	393	256	1,61	1,79	1,54
40	-5	484	278	1,69	2,03	1,74
40	0	588	301	1,78	2,27	1,95
40	5	704	324	1,87	2,52	2,17
40	7,2	759	335	1,92	2,64	2,27
40	10	833	349	1,97	2,78	2,39

45	-25	180	196	1,39	1,07	0,92
45	-20	229	218	1,47	1,22	1,05
45	-15	290	241	1,55	1,40	1,21
45	-10	364	264	1,64	1,60	1,38
45	-5	450	288	1,73	1,82	1,56
45	0	549	313	1,83	2,04	1,76
45	5	661	338	1,93	2,27	1,95
45	7,2	714	350	1,98	2,37	2,04
45	10	785	365	2,04	2,50	2,15

50	-25	165	198	1,39	0,97	0,83
50	-20	209	222	1,48	1,10	0,94
50	-15	266	247	1,57	1,25	1,08
50	-10	335	272	1,67	1,43	1,23
50	-5	417	298	1,77	1,63	1,40
50	0	511	325	1,88	1,83	1,57
50	5	618	353	1,99	2,04	1,75
50	7,2	669	365	2,04	2,13	1,83
50	10	737	381	2,10	2,25	1,94

55	-25	150	200	1,40	0,87	0,75
55	-20	189	226	1,50	0,98	0,84
55	-15	241	253	1,60	1,11	0,96
55	-10	306	280	1,70	1,27	1,09
55	-5	383	308	1,81	1,45	1,24
55	0	473	337	1,92	1,63	1,40
55	5	575	367	2,05	1,82	1,57
55	7,2	624	380	2,10	1,91	1,64
55	10	690	397	2,17	2,02	1,74

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	213	195	1,38	1,09	0,94
40	-20	272	215	1,45	1,27	1,09
40	-15	345	236	1,53	1,46	1,26
40	-10	431	257	1,61	1,67	1,45
40	-5	530	280	1,70	1,90	1,64
40	0	643	303	1,79	2,12	1,83
40	5	769	327	1,88	2,36	2,04
40	7,2	829	337	1,93	2,46	2,12
40	10	909	351	1,98	2,59	2,24

45	-25	196	197	1,39	0,99	0,86
45	-20	249	219	1,47	1,14	0,98
45	-15	316	242	1,55	1,31	1,13
45	-10	397	265	1,64	1,50	1,29
45	-5	491	290	1,74	1,69	1,46
45	0	598	315	1,84	1,90	1,64
45	5	719	341	1,94	2,11	1,82
45	7,2	776	352	1,99	2,20	1,90
45	10	853	367	2,05	2,32	2,01

50	-25	179	199	1,40	0,90	0,78
50	-20	227	223	1,48	1,02	0,88
50	-15	288	248	1,58	1,16	1,00
50	-10	363	274	1,68	1,33	1,15
50	-5	452	300	1,78	1,51	1,30
50	0	553	327	1,88	1,69	1,46
50	5	669	355	2,00	1,88	1,63
50	7,2	724	367	2,05	1,97	1,70
50	10	797	384	2,11	2,08	1,80

55	-25	162	201	1,40	0,80	0,69
55	-20	204	227	1,50	0,90	0,78
55	-15	260	254	1,60	1,02	0,88
55	-10	329	282	1,71	1,17	1,01
55	-5	412	310	1,82	1,33	1,15
55	0	509	339	1,93	1,50	1,30
55	5	618	369	2,06	1,68	1,45
55	7,2	671	383	2,11	1,75	1,52
55	10	742	400	2,18	1,85	1,60

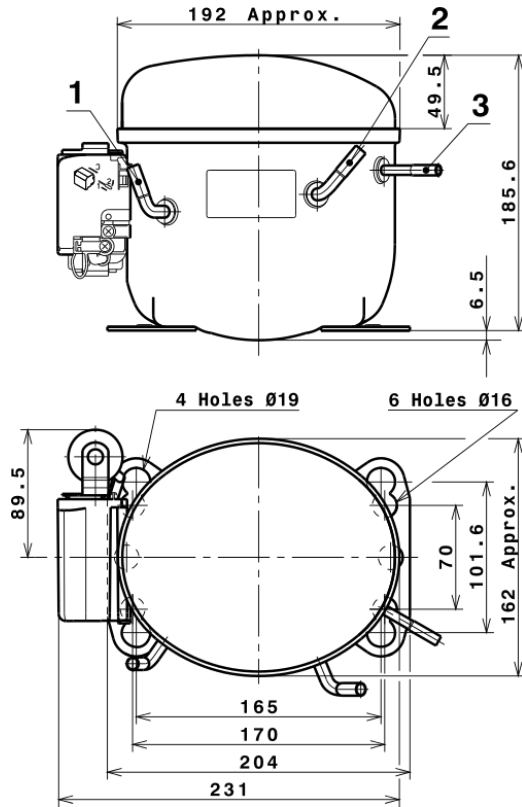
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.014,7703975791	210,6456049283	1,4041067545	17,134224281165
2	33,2652880432	1,5573725466	0,0055887580	0,61996106686496
3	-9,2367204540	2,5056510798	0,0103137409	-0,088593598741156
4	0,2709321296	0,0181283828	0,0001179521	0,0072201367158751
5	-0,2298384231	0,0837728719	0,0003525135	-0,0017977798552694

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

COMPRESSOR DIMENSIONS



DESIGNATION INTERNAL DIAM.

DESIGNATION	INTERNAL DIAM.
1 Suction	6,5 mm
2 Service	6,5 mm
3 Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (165x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R22 HMBP

