

Technical Data Sheet

Compressor model **L88TN**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R22**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	8,85 cm ³	Nominal Power	3/8 hp
Refrigerant	R22	Diameter	25,40 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	17,47 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	11,31 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	400 cm ³	Locked Rotor Amps (LRA)	40,00 A
				Max. Cont. Current (MCC)	11,00 A
				Main W. resist. at 25°C	1,01 Ω
				Start W. resist. at 25°C	7,34 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	1.176 kCal/h	1.169 W
COP	1,90 W/W	1,67 W/W
EER	1,63 kCal/Wh	1,45 kCal/Wh
Input Power	720 W	698 W
Current	7,60 A	7,42 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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	250 µF 160 V		
Relay	Option 1		
Reference	2014 184.		
Pick-Up	18,70 A		
Drop-Out	15,60 A		
Protector	Option 1	Option 2	
Reference	MRA38142	T0257	
Current	24,00 A	24,00 A	
Time check	7,5-14 seg	6,0-16 seg	
Disc temp. (Open/Close)	120,00 / 52,00 °C	120,00 / 52,00 °C	

Technical Data Sheet

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	348	345	5,02	1,17	1,01
40	-20	466	383	5,23	1,42	1,22
40	-15	605	422	5,47	1,67	1,43
40	-10	765	463	5,72	1,92	1,65
40	-5	945	505	6,00	2,18	1,87
40	0	1.147	549	6,30	2,43	2,09
40	5	1.369	595	6,63	2,68	2,30
40	7,2	1.473	615	6,78	2,79	2,40
40	10	1.612	641	6,98	2,92	2,51

45	-25	324	350	5,04	1,08	0,93
45	-20	431	393	5,29	1,28	1,10
45	-15	558	437	5,56	1,49	1,28
45	-10	706	482	5,85	1,70	1,46
45	-5	875	529	6,16	1,92	1,65
45	0	1.064	578	6,50	2,14	1,84
45	5	1.275	628	6,87	2,36	2,03
45	7,2	1.374	650	7,04	2,46	2,11
45	10	1.506	679	7,27	2,58	2,22

50	-25	300	355	5,07	0,98	0,85
50	-20	395	402	5,35	1,14	0,98
50	-15	511	451	5,65	1,32	1,13
50	-10	647	501	5,97	1,50	1,29
50	-5	804	553	6,33	1,69	1,45
50	0	982	606	6,71	1,89	1,62
50	5	1.181	660	7,12	2,08	1,79
50	7,2	1.275	685	7,32	2,16	1,86
50	10	1.401	717	7,57	2,27	1,95

55	-25	276	360	5,10	0,89	0,77
55	-20	359	412	5,40	1,01	0,87
55	-15	463	465	5,74	1,16	1,00
55	-10	588	520	6,10	1,32	1,13
55	-5	734	576	6,49	1,48	1,27
55	0	900	634	6,92	1,65	1,42
55	5	1.087	693	7,38	1,82	1,57
55	7,2	1.176	720	7,60	1,90	1,63
55	10	1.295	754	7,88	2,00	1,72

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	380	347	5,03	1,10	0,95
40	-20	510	385	5,24	1,33	1,15
40	-15	663	425	5,48	1,56	1,35
40	-10	838	466	5,74	1,80	1,55
40	-5	1.035	508	6,02	2,03	1,76
40	0	1.254	553	6,33	2,27	1,96
40	5	1.495	598	6,66	2,50	2,16
40	7,2	1.609	619	6,81	2,60	2,24
40	10	1.759	646	7,01	2,72	2,35

45	-25	353	352	5,05	1,00	0,87
45	-20	469	395	5,30	1,19	1,03
45	-15	608	439	5,57	1,39	1,20
45	-10	769	485	5,86	1,59	1,37
45	-5	953	532	6,18	1,79	1,55
45	0	1.159	581	6,53	1,99	1,72
45	5	1.387	632	6,90	2,20	1,90
45	7,2	1.494	654	7,08	2,28	1,97
45	10	1.637	684	7,31	2,39	2,07

50	-25	325	357	5,08	0,91	0,79
50	-20	428	404	5,36	1,06	0,91
50	-15	554	453	5,66	1,22	1,05
50	-10	701	504	5,99	1,39	1,20
50	-5	871	556	6,35	1,57	1,35
50	0	1.063	610	6,74	1,74	1,51
50	5	1.278	665	7,16	1,92	1,66
50	7,2	1.379	690	7,35	2,00	1,73
50	10	1.515	722	7,61	2,10	1,81

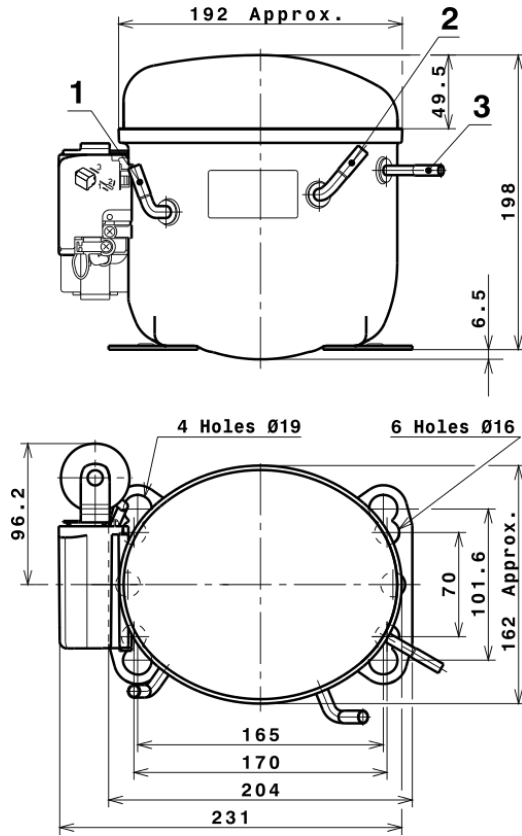
55	-25	297	362	5,11	0,82	0,71
55	-20	387	414	5,42	0,93	0,81
55	-15	499	468	5,75	1,07	0,92
55	-10	633	523	6,12	1,21	1,05
55	-5	789	580	6,52	1,36	1,18
55	0	968	638	6,95	1,52	1,31
55	5	1.169	698	7,42	1,67	1,45
55	7,2	1.265	725	7,64	1,74	1,51
55	10	1.392	759	7,93	1,83	1,58

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2.042,5453669658	333,1659620630	4,5028650955	35,24130052378
2	68,7007885495	1,6827133205	0,0048361627	1,2976848407273
3	-19,6000316096	5,8618482279	0,0470707042	-0,21650240286969
4	0,4488568465	0,0360647176	0,0007238594	0,012147768256064
5	-0,5583431908	0,1933410009	0,0016471551	-0,0061168939332605

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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COMPRESSOR DIMENSIONS



DESIGNATION INTERNAL DIAM.

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

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (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 R22 HMBP

