

# Technical Data Sheet

Compressor model **L45TN**  
 Voltage **200-220/230V 50/60Hz ~1**  
 Refrigerant **R22**

## APPLICATION

## COMPRESSOR

## MOTOR

Application	High-Medium Back Pressure	Displacement	4,56 cm <sup>3</sup>	Nominal Power	1/5 hp
Refrigerant	R22	Diameter	19,09 mm	Voltage/Frequency	200-220V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	15,93 mm	Voltage range	180-242 V
Expansion	Capillar/Valve	Net Weight	10,04 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	300 cm <sup>3</sup>	Locked Rotor Amps (LRA)	10,60 A
				Max. Cont. Current (MCC)	3,00 A
				Main W. resist. at 25°C	7,75 Ω
				Start W. resist. at 25°C	39,56 Ω

## NOMINAL PERFORMANCE

## APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	520 kCal/h	515 W
COP	1,95 W/W	1,71 W/W
EER	1,68 kCal/Wh	1,48 kCal/Wh
Input Power	310 W	301 W
Current	1,99 A	1,96 A



## TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T <sub>e</sub> )	7,2 °C	5,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	46,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	35,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	35,0 °C	32,0 °C
Voltage/Frequency	200 V 50 Hz	200 V 50 Hz

## ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V			
Relay	Option 1			
Reference	2014 131.			
Pick-Up	5,30 A			
Drop-Out	4,50 A			
Protector	Option 1	Option 2		
Reference	MRP56AMK	T0057		
Current	9,40 A	8,50 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	163	164	1,53	1,15	0,99
40	-20	207	176	1,57	1,37	1,18
40	-15	262	189	1,60	1,62	1,39
40	-10	327	202	1,64	1,88	1,62
40	-5	403	217	1,68	2,16	1,86
40	0	490	233	1,73	2,45	2,10
40	5	587	250	1,78	2,73	2,35
40	7,2	633	258	1,81	2,86	2,46
40	10	694	268	1,84	3,02	2,59

45	-25	150	166	1,54	1,05	0,90
45	-20	191	180	1,58	1,23	1,06
45	-15	242	195	1,62	1,44	1,24
45	-10	303	212	1,66	1,67	1,43
45	-5	375	229	1,72	1,91	1,64
45	0	458	247	1,77	2,16	1,85
45	5	551	266	1,84	2,41	2,07
45	7,2	595	275	1,87	2,52	2,16
45	10	654	286	1,91	2,66	2,28

50	-25	138	168	1,54	0,95	0,82
50	-20	174	185	1,59	1,10	0,94
50	-15	221	202	1,64	1,27	1,10
50	-10	279	221	1,69	1,47	1,26
50	-5	347	240	1,75	1,68	1,44
50	0	426	261	1,82	1,90	1,63
50	5	515	283	1,89	2,12	1,82
50	7,2	558	293	1,93	2,22	1,91
50	10	615	305	1,97	2,34	2,01

55	-25	125	170	1,55	0,86	0,74
55	-20	158	189	1,60	0,97	0,84
55	-15	201	209	1,66	1,12	0,96
55	-10	255	230	1,72	1,29	1,11
55	-5	319	252	1,79	1,47	1,27
55	0	394	275	1,87	1,67	1,43
55	5	479	299	1,95	1,86	1,60
55	7,2	520	310	1,99	1,95	1,68
55	10	575	324	2,04	2,06	1,77

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	178	165	1,54	1,08	0,93
40	-20	227	177	1,57	1,28	1,11
40	-15	287	190	1,60	1,51	1,31
40	-10	359	203	1,64	1,76	1,52
40	-5	442	218	1,69	2,02	1,75
40	0	536	234	1,73	2,29	1,97
40	5	641	251	1,79	2,55	2,20
40	7,2	691	259	1,81	2,66	2,30
40	10	757	269	1,85	2,81	2,43

45	-25	163	167	1,54	0,98	0,85
45	-20	208	181	1,58	1,15	0,99
45	-15	264	196	1,62	1,34	1,16
45	-10	331	213	1,67	1,55	1,34
45	-5	409	230	1,72	1,78	1,54
45	0	498	249	1,78	2,01	1,73
45	5	599	268	1,84	2,24	1,93
45	7,2	647	277	1,87	2,34	2,02
45	10	711	288	1,91	2,46	2,13

50	-25	149	169	1,55	0,88	0,76
50	-20	189	186	1,59	1,02	0,88
50	-15	240	203	1,64	1,18	1,02
50	-10	303	222	1,70	1,36	1,18
50	-5	376	242	1,76	1,56	1,34
50	0	461	263	1,82	1,76	1,52
50	5	557	285	1,90	1,96	1,69
50	7,2	603	294	1,93	2,05	1,77
50	10	665	307	1,98	2,16	1,87

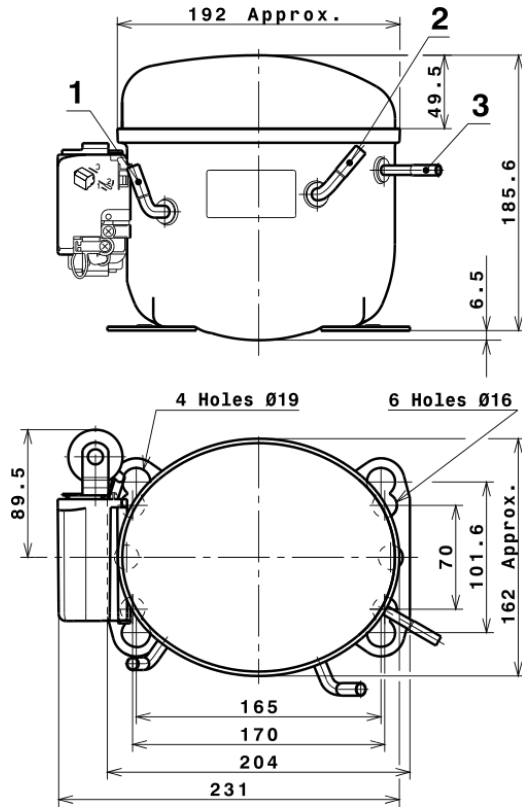
55	-25	135	171	1,55	0,79	0,68
55	-20	170	190	1,60	0,89	0,77
55	-15	217	210	1,66	1,03	0,89
55	-10	275	231	1,72	1,19	1,03
55	-5	344	254	1,79	1,36	1,17
55	0	424	277	1,87	1,53	1,32
55	5	515	301	1,96	1,71	1,48
55	7,2	559	312	2,00	1,79	1,55
55	10	618	326	2,05	1,89	1,64

## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	845,6419979825	124,4175715626	1,3238806990	14,278520234304
2	27,7210733693	-0,5347793209	-0,0033647497	0,51663422238747
3	-7,6972670450	2,9079305516	0,0104665195	-0,073827998950963
4	0,2257767746	0,0230476476	0,0001524559	0,0060167805965626
5	-0,1915320193	0,0998640508	0,0003755118	-0,0014981498793912

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



## 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

