Technical Data Sheet

Compressor model **L88TN**

Voltage **220-240V 50Hz ~1**

Refrigerant **R22**

APPLICATION		COMPRESSOR		MOTOR	
Application	High-Medium Back Pressure	Displacement	8,85 cm³	Nominal Power	3/8 hp
Refrigerant	R22	Diameter	25,40 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 ºC to 10,0 ºC	Stroke	17,47 mm	Voltage range	198-264 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 ºC	Oil charge	400 cm³	Locked Rotor Amps (LRA)	16,00 A
				Max. Cont. Current (MCC)	5,50 A
				Main W. resist. at 25ºC	5,40 Ω
				Start W. resist. at 25ºC	11,90 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	980 kCal/h	974 W
COP	1,97 W/W	1,72 W/W
EER	1,69 kCal/Wh	1,49 kCal/Wh
Input Power	580 W	565 W
Current	3,30 A	3,23 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	HMBP (D)	**HMBP (C)**
Evaporating temp. (T_e)	7,2 ºC	5,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	46,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	35,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	35,0 ºC	32,0 ºC
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V			
Relay	Option 1			
Reference	2014 149.			
Pick-Up	7,80 A			
Drop-Out	6,65 A			
Protector	Option 1	Option 2		
Reference	MRP00AMK	T0425		
Current	11,70 A	11,50 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 61,00 ºC	105,00 / 61,00 ºC		

Technical Data Sheet

cubigel compressors

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	290	291	2,17	1,16	1,00
40	-20	388	318	2,25	1,42	1,22
40	-15	504	346	2,34	1,69	1,46
40	-10	637	375	2,44	1,98	1,70
40	-5	788	403	2,54	2,27	1,95
40	0	956	432	2,65	2,57	2,21
40	5	1.141	462	2,77	2,87	2,47
40	7,2	1.228	475	2,82	3,01	2,58
40	10	1.343	492	2,89	3,18	2,73
45	-25	270	300	2,20	1,05	0,90
45	-20	359	332	2,29	1,26	1,08
45	-15	465	363	2,40	1,49	1,28
45	-10	588	396	2,51	1,73	1,49
45	-5	729	428	2,63	1,98	1,70
45	0	887	462	2,76	2,23	1,92
45	5	1.062	495	2,91	2,50	2,15
45	7,2	1.145	510	2,97	2,61	2,25
45	10	1.255	529	3,06	2,76	2,37
50	-25	250	309	2,22	0,94	0,81
50	-20	329	345	2,33	1,11	0,95
50	-15	425	381	2,46	1,30	1,12
50	-10	539	417	2,59	1,50	1,29
50	-5	670	454	2,73	1,72	1,48
50	0	818	491	2,89	1,94	1,67
50	5	984	528	3,05	2,17	1,86
50	7,2	1.063	545	3,13	2,27	1,95
50	10	1.167	566	3,23	2,40	2,06
55	-25	230	318	2,25	0,84	0,72
55	-20	299	358	2,38	0,97	0,84
55	-15	386	398	2,52	1,13	0,97
55	-10	490	438	2,67	1,30	1,12
55	-5	611	479	2,84	1,48	1,28
55	0	750	520	3,02	1,68	1,44
55	5	906	562	3,21	1,88	1,61
55	7,2	980	580	3,30	1,97	1,69
55	10	1.079	604	3,42	2,08	1,79

CECOMAF

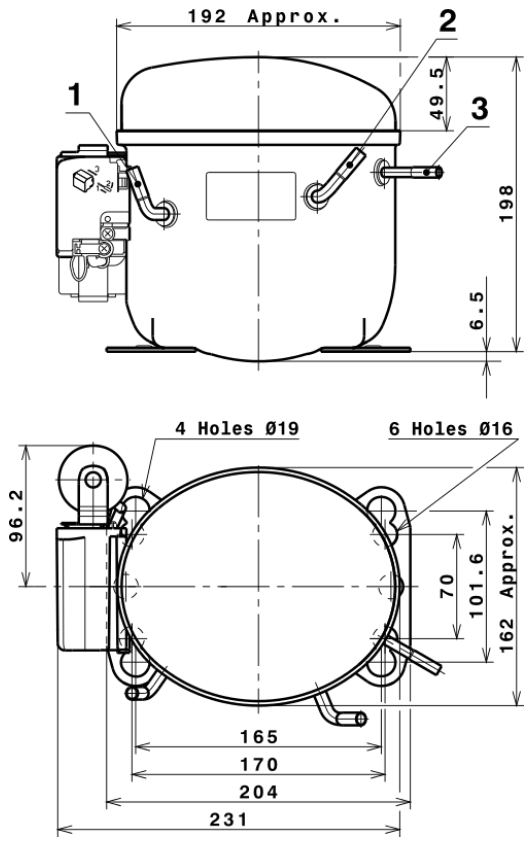
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	317	293	2,17	1,08	0,94
40	-20	425	320	2,26	1,33	1,15
40	-15	552	348	2,35	1,59	1,37
40	-10	698	377	2,44	1,85	1,60
40	-5	862	406	2,55	2,12	1,84
40	0	1.045	435	2,66	2,40	2,07
40	5	1.246	465	2,78	2,68	2,32
40	7,2	1.340	478	2,83	2,80	2,42
40	10	1.466	495	2,91	2,96	2,56
45	-25	294	302	2,20	0,97	0,84
45	-20	391	333	2,30	1,17	1,01
45	-15	507	365	2,40	1,39	1,20
45	-10	641	398	2,52	1,61	1,39
45	-5	794	431	2,64	1,84	1,59
45	0	965	465	2,78	2,08	1,80
45	5	1.155	498	2,92	2,32	2,00
45	7,2	1.245	513	2,99	2,42	2,09
45	10	1.364	533	3,07	2,56	2,21
50	-25	271	311	2,23	0,87	0,75
50	-20	357	346	2,34	1,03	0,89
50	-15	461	383	2,46	1,21	1,04
50	-10	584	419	2,60	1,39	1,20
50	-5	726	456	2,74	1,59	1,37
50	0	886	494	2,90	1,79	1,55
50	5	1.065	532	3,07	2,00	1,73
50	7,2	1.149	549	3,15	2,09	1,81
50	10	1.262	570	3,25	2,21	1,91
55	-25	248	320	2,26	0,77	0,67
55	-20	322	360	2,38	0,90	0,77
55	-15	416	400	2,53	1,04	0,90
55	-10	528	441	2,68	1,20	1,03
55	-5	658	482	2,85	1,37	1,18
55	0	807	523	3,03	1,54	1,33
55	5	974	565	3,23	1,72	1,49
55	7,2	1.054	584	3,32	1,80	1,56
55	10	1.160	608	3,44	1,91	1,65

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.702,1211391382	205,0290132111	1,5302626101	29,367750436483
2	57,2506571246	-0,4991893158	-0,0096939419	1,0814040339394
3	-16,3333596747	6,0457967267	0,0285025750	-0,18041866905808
4	0,3740473721	0,0123104573	0,0003086047	0,010123140213387
5	-0,4652859923	0,1677925983	0,0009128587	-0,0050974116110505

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

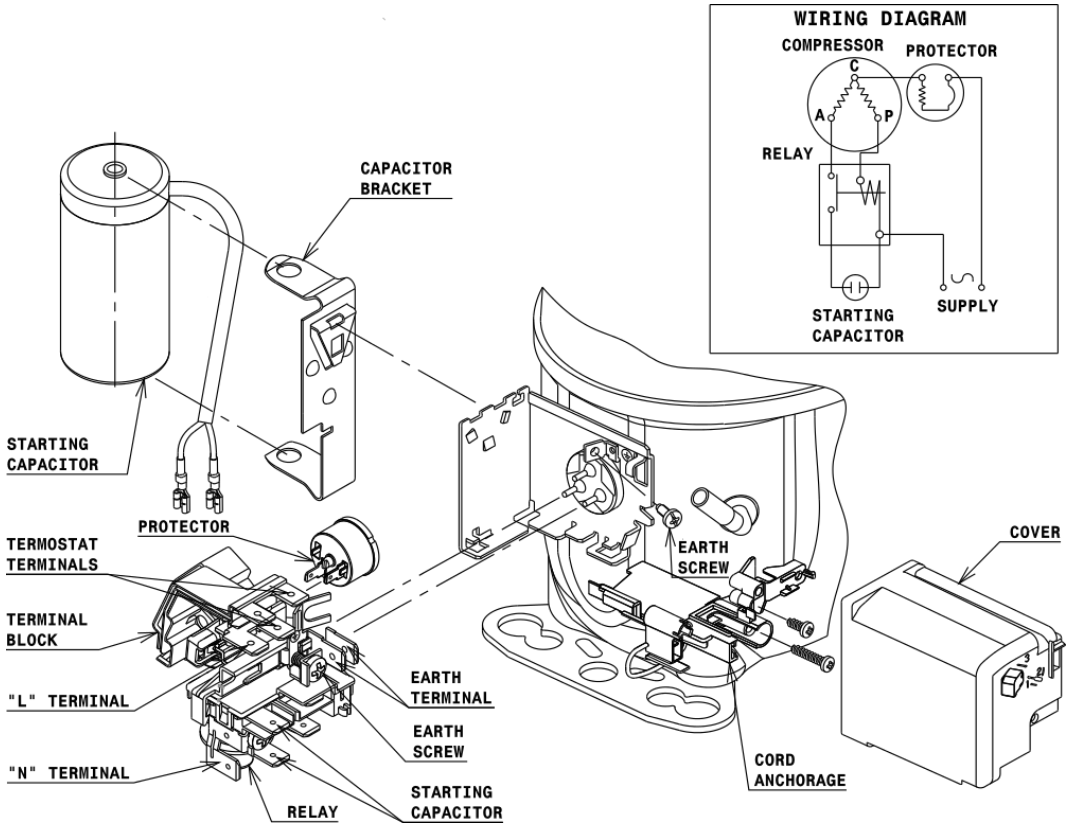
COMPRESSOR DIMENSIONS



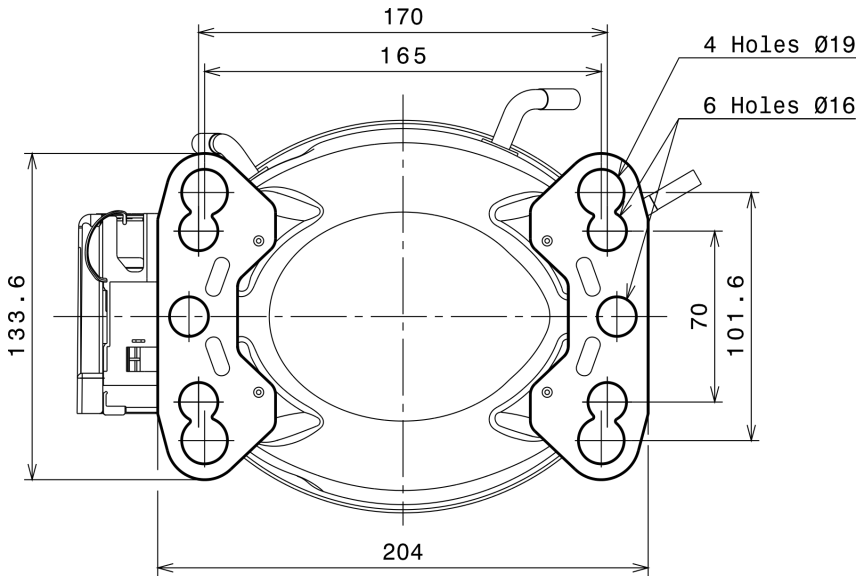
	DESIGNATION	INTERNAL DIAM.
1	Suction	8,1 mm
2	Service	8,1 mm
3	Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



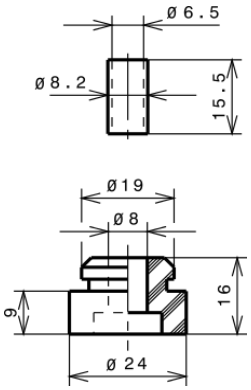
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

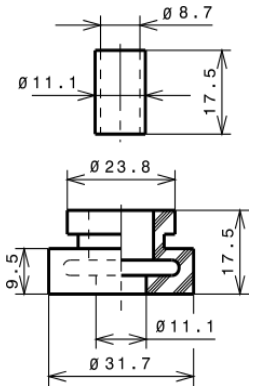
STANDARD

Ø16 holes (170x70 net)



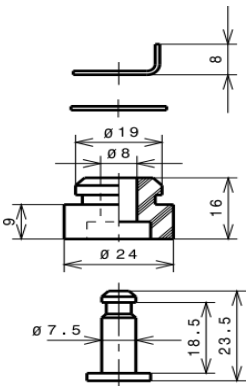
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R22 HMBP