



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	22.90	27.20	32.40	38.60	45.90	54.50				
25.0	21.10	25.50	30.60	36.70	43.90	52.10	55.80	61.70		
30.0	19.45	23.90	29.00	35.00	41.90	49.90	53.50	59.10	64.20	69.70
35.0	17.90	22.40	27.50	33.40	40.10	47.80	51.20	56.70	61.50	66.70
40.0	16.45	20.90	26.00	31.80	38.30	45.70	49.00	54.20	58.90	63.80
45.0		19.55	24.60	30.20	36.50	43.60	46.70	51.70	56.20	60.90
50.0			23.00	28.50	34.60	41.40	44.40	49.10	53.40	57.80
55.0				26.80	32.60	39.10	42.00	46.40	50.40	54.60
60.0					30.50	36.70	39.30	43.60	47.30	51.30
65.0					28.10	34.00	36.50	40.40	43.90	47.60

50 Hz

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Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	6.37	6.36	6.35	6.38	6.46	6.63				
25.0	7.15	7.16	7.16	7.17	7.22	7.32	7.39	7.52		
30.0	7.97	8.01	8.02	8.02	8.04	8.11	8.15	8.24	8.34	8.47
35.0	8.83	8.91	8.95	8.95	8.96	9.00	9.02	9.08	9.15	9.24
40.0	9.74	9.88	9.95	9.97	9.98	9.99	10.00	10.05	10.10	10.15
45.0		10.90	11.05	11.10	11.10	11.10	11.10	11.10	11.15	11.20
50.0			12.20	12.30	12.35	12.35	12.35	12.35	12.35	12.35
55.0				13.65	13.70	13.75	13.75	13.75	13.75	13.75
60.0					15.25	15.30	15.30	15.30	15.25	15.25
65.0					16.90	17.00	17.00	17.00	17.00	17.00

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	15.29	15.27	15.26	15.29	15.39	15.59				
25.0	16.02	16.02	16.02	16.03	16.09	16.23	16.31	16.46		
30.0	16.84	16.88	16.89	16.90	16.94	17.02	17.08	17.18	17.30	17.45
35.0	17.77	17.86	17.90	17.92	17.94	17.99	18.02	18.09	18.18	18.28
40.0	18.81	18.97	19.05	19.09	19.11	19.14	19.16	19.20	19.26	19.33
45.0		20.23	20.37	20.44	20.48	20.49	20.50	20.52	20.55	20.59
50.0			21.86	21.98	22.04	22.06	22.07	22.07	22.08	22.10
55.0				23.73	23.82	23.86	23.86	23.87	23.87	23.87
60.0					25.84	25.90	25.91	25.91	25.91	25.90
65.0					28.10	28.20	28.22	28.24	28.23	28.22

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	127.00	149.50	175.50	207.00	243.00	285.00				
25.0	121.00	144.50	172.00	204.00	240.00	283.00	301.00	331.00		
30.0	116.00	140.50	168.50	201.00	238.00	280.00	299.00	328.00	355.00	383.00
35.0	111.00	137.00	166.00	199.00	236.00	278.00	297.00	326.00	352.00	380.00
40.0	106.00	133.50	163.50	197.00	235.00	277.00	295.00	324.00	350.00	378.00
45.0		130.00	161.00	195.50	233.00	275.00	293.00	322.00	348.00	375.00
50.0			158.50	193.00	231.00	273.00	291.00	320.00	345.00	372.00
55.0				190.00	229.00	271.00	288.00	317.00	342.00	368.00
60.0					225.00	267.00	285.00	313.00	337.00	363.00
65.0					220.00	261.00	279.00	307.00	331.00	356.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	42.8
Length/Width, mm	321/349
Height, mm	579
Net Weight, kg	107
Gross Weight, kg	113
Rotalock Suction, inch	2 1/4
Rotalock Discharge, inch	1 3/4
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 1/8
Oil Quantity, l	4.1
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	220 x 220 (8.5)
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
Sound Power with Sound Shell (HT), dBA	70
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	21.2
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Low Side TS Min., °C	-35
Refrigerant's GWP	1810
Refrigerant's classification	A1

### **COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	32
Locked Rotor Current, A	198
Winding Resistance, ohm	0.72
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermistor

50 Hz

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### **ACCESSORIES OPTIONAL**

Crankcase Heater	49 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Mounting Grommets	Hard Mounts for Paralleling

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWD	460 V / 3~ / 60 Hz	460		Y	1.04