



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

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
10.0	11.60	14.50	18.00	22.20						
15.0	11.15	13.95	17.35	21.40						
20.0	10.65	13.40	16.70	20.60	25.20					
25.0	10.10	12.85	16.00	19.75	24.10	29.30	31.60			
30.0	9.54	12.20	15.30	18.90	23.10	28.00	30.20	33.70	36.90	
35.0	8.90	11.55	14.55	18.00	22.00	26.70	28.80	32.10	35.20	
40.0	8.17	10.75	13.70	17.05	20.90	25.40	27.30	30.50	33.40	
45.0		9.92	12.80	16.05	19.70	23.90	25.80	28.80	31.50	
50.0			11.80	14.90	18.45	22.50	24.20	27.10	29.60	
55.0				13.70	17.10	20.90	22.60	25.30	27.70	
60.0				12.35	15.60	19.25	20.80	23.40	25.60	
65.0					14.00	17.45	18.95	21.30	23.40	
70.0						15.55	16.95	19.20	21.20	
75.0						13.50	14.80	16.90	18.75	

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	2.81	2.92	3.05	3.18						
15.0	3.14	3.24	3.35	3.47						
20.0	3.51	3.59	3.69	3.80	3.92					
25.0	3.91	3.99	4.07	4.16	4.28	4.41	4.47			
30.0	4.36	4.43	4.50	4.58	4.68	4.81	4.86	4.95	5.04	
35.0	4.87	4.93	4.99	5.06	5.15	5.27	5.32	5.40	5.48	
40.0	5.44	5.49	5.55	5.61	5.70	5.80	5.85	5.93	6.00	
45.0		6.13	6.18	6.24	6.32	6.41	6.46	6.53	6.60	
50.0			6.90	6.96	7.03	7.12	7.16	7.23	7.29	
55.0				7.77	7.84	7.92	7.96	8.02	8.09	
60.0				8.69	8.75	8.83	8.87	8.93	8.99	
65.0					9.78	9.86	9.89	9.95	10.00	
70.0						11.00	11.05	11.10	11.15	
75.0						12.30	12.35	12.40	12.45	

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
10.0	9.89	9.91	9.96	10.03						
15.0	10.17	10.20	10.25	10.32						
20.0	10.46	10.49	10.54	10.62	10.72					
25.0	10.77	10.80	10.86	10.93	11.04	11.17	11.22			
30.0	11.13	11.16	11.22	11.30	11.40	11.53	11.59	11.68	11.77	
35.0	11.56	11.60	11.65	11.73	11.84	11.96	12.02	12.12	12.20	
40.0	12.08	12.12	12.18	12.26	12.36	12.49	12.55	12.64	12.72	
45.0		12.77	12.83	12.91	13.01	13.13	13.19	13.28	13.36	
50.0			13.61	13.69	13.79	13.92	13.97	14.06	14.14	
55.0				14.64	14.74	14.86	14.91	15.00	15.08	
60.0				15.78	15.88	15.99	16.04	16.13	16.21	
65.0					17.22	17.33	17.38	17.47	17.54	
70.0						18.91	18.96	19.04	19.11	
75.0						20.74	20.79	20.86	20.93	

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
10.0	56.60	71.00	88.50	109.50						
15.0	56.30	70.80	88.30	109.50						
20.0	55.80	70.60	88.20	109.50	134.50					
25.0	55.20	70.20	87.90	109.00	134.00	164.00	177.50			
30.0	54.20	69.60	87.50	108.50	133.50	163.50	176.50	198.50	218.00	
35.0	52.70	68.50	86.80	108.00	133.00	162.50	176.00	197.50	217.00	
40.0	50.60	67.00	85.70	107.50	132.50	162.00	175.00	196.50	216.00	
45.0		64.80	84.00	106.00	131.00	160.50	174.00	195.50	215.00	
50.0			81.40	104.00	129.50	159.00	172.00	193.50	213.00	
55.0				101.00	127.00	156.50	170.00	191.50	211.00	
60.0				96.70	123.00	153.50	167.00	188.50	208.00	
65.0					118.50	149.00	162.50	184.50	204.00	
70.0						143.50	157.00	179.50	199.50	
75.0						135.50	149.50	172.50	193.00	

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	36.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	64.9
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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	190 x 190 (0)
Sound Pressure @ 1m (MT), dBA	70
Sound Power (MT), dBA	81
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	14.0
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	28.2
Locked Rotor Current, A	140
Winding Resistance, ohm	1.09
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

### **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>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04