



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	4.44	5.63	7.05	8.75	10.75	13.10					
15.0	4.25	5.40	6.76	8.37	10.25	12.50	15.10				
20.0	4.07	5.17	6.46	7.99	9.79	11.90	14.35	17.20			
25.0		4.94	6.16	7.60	9.29	11.30	13.60	16.30	19.35		
30.0		4.70	5.85	7.20	8.78	10.65	12.80	15.35	18.25	21.60	23.00
35.0		4.44	5.52	6.78	8.25	9.98	12.00	14.35	17.10	20.20	21.60
40.0			5.17	6.34	7.70	9.30	11.15	13.35	15.90	18.85	20.10
45.0			4.81	5.87	7.12	8.58	10.30	12.35	14.70	17.40	18.60
50.0				5.37	6.50	7.83	9.40	11.25	13.40	15.95	17.05
55.0					5.85	7.04	8.46	10.15	12.10	14.40	15.45
60.0						6.21	7.47	8.97	10.75	12.85	13.80

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	2.06	2.14	2.25	2.39	2.54	2.72					
15.0	2.21	2.30	2.41	2.54	2.70	2.87	3.06				
20.0	2.38	2.48	2.59	2.72	2.87	3.04	3.23	3.44			
25.0		2.67	2.79	2.92	3.07	3.24	3.43	3.63	3.85		
30.0		2.89	3.01	3.14	3.29	3.46	3.65	3.85	4.07	4.30	4.40
35.0		3.13	3.25	3.39	3.55	3.71	3.90	4.10	4.31	4.54	4.64
40.0			3.53	3.67	3.83	4.00	4.18	4.38	4.59	4.82	4.91
45.0			3.84	3.98	4.14	4.31	4.50	4.70	4.91	5.13	5.22
50.0				4.33	4.49	4.67	4.85	5.05	5.26	5.48	5.57
55.0					4.88	5.06	5.25	5.45	5.65	5.87	5.96
60.0						5.49	5.68	5.88	6.09	6.31	6.40

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	5.82	5.89	5.98	6.10	6.25	6.42					
15.0	5.80	5.89	6.00	6.15	6.32	6.53	6.75				
20.0	5.81	5.92	6.05	6.22	6.41	6.64	6.89	7.17			
25.0		5.98	6.13	6.32	6.53	6.78	7.05	7.35	7.68		
30.0		6.10	6.27	6.47	6.70	6.96	7.26	7.58	7.92	8.30	8.45
35.0		6.30	6.48	6.69	6.93	7.21	7.52	7.85	8.22	8.61	8.78
40.0			6.77	6.99	7.25	7.54	7.86	8.21	8.59	8.99	9.16
45.0			7.17	7.40	7.66	7.96	8.29	8.65	9.04	9.46	9.63
50.0				7.92	8.19	8.49	8.83	9.19	9.59	10.02	10.20
55.0					8.85	9.15	9.49	9.86	10.27	10.71	10.89
60.0						9.96	10.30	10.68	11.08	11.52	11.71

Cond °C	Suction Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	24.70	31.40	39.50	49.20	60.80	74.50					
15.0	24.70	31.40	39.50	49.10	60.60	74.20	90.20				
20.0	24.70	31.40	39.40	49.00	60.30	73.80	89.70	108.50			
25.0		31.50	39.40	48.80	60.10	73.40	89.20	108.00	129.50		
30.0		31.50	39.40	48.70	59.70	72.90	88.50	107.00	129.00	154.50	166.00
35.0		31.40	39.20	48.40	59.30	72.30	87.80	106.00	128.00	153.50	165.00
40.0			39.10	48.10	58.80	71.60	86.90	105.00	126.50	152.50	164.00
45.0			38.80	47.60	58.20	70.70	85.80	104.00	125.50	151.50	163.00
50.0				47.00	57.30	69.70	84.60	102.50	124.00	150.00	162.00
55.0					56.30	68.40	83.10	101.00	122.50	149.00	161.50
60.0						67.00	81.60	99.50	121.50	148.50	161.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	17.1
Length/Width, mm	241/244
Height, mm	438
Net Weight, kg	39.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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 (8.5)
Sound Pressure @ 1m (MT), dBA	67
Sound Power (MT), dBA	78
Sound Power with Sound Shell (MT), dBA	72
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	5.70
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	12
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Oil Control System	ALCO Trax-Oil OM3

### **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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TF7	380 V / 3~ / 60 Hz	380		Y	1.26