



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ Maximum Evaporating Temperature

Suction Return Temperature 18.3°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
5.0	2.08	2.65	3.37	4.24	5.29	6.54	8.01	
10.0	2.03	2.59	3.27	4.11	5.12	6.32	7.72	
15.0	1.97	2.51	3.18	3.98	4.95	6.09	7.44	
20.0	1.92	2.44	3.08	3.85	4.77	5.86	7.15	8.64
25.0	1.84	2.36	2.97	3.71	4.59	5.63	6.85	8.28
30.0	1.78	2.27	2.86	3.56	4.40	5.39	6.56	7.91
35.0	1.70	2.17	2.74	3.41	4.21	5.15	6.25	7.54
40.0	1.60	2.07	2.61	3.25	4.00	4.90	5.94	7.17
45.0	1.50	1.96	2.47	3.08	3.80	4.64	5.63	6.78
50.0	1.40	1.83	2.33	2.90	3.58	4.37	5.30	6.39
55.0	1.27	1.70	2.17	2.72	3.35	4.10	4.97	5.99

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	0.96	1.02	1.12	1.23	1.37	1.54	1.74	
10.0	1.03	1.10	1.18	1.29	1.42	1.58	1.78	
15.0	1.12	1.18	1.26	1.36	1.49	1.64	1.82	
20.0	1.23	1.28	1.36	1.46	1.58	1.72	1.89	2.10
25.0	1.36	1.41	1.48	1.57	1.68	1.82	1.98	2.17
30.0	1.52	1.56	1.63	1.71	1.81	1.94	2.09	2.27
35.0	1.71	1.75	1.80	1.88	1.97	2.08	2.22	2.39
40.0	1.93	1.96	2.01	2.08	2.16	2.26	2.39	2.55
45.0	2.19	2.22	2.26	2.31	2.39	2.48	2.59	2.74
50.0	2.49	2.51	2.54	2.59	2.65	2.73	2.83	2.96
55.0	2.84	2.85	2.87	2.91	2.95	3.02	3.11	3.23

Cond °C	Current at 400 V, A							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	3.46	3.50	3.56	3.63	3.73	3.87	4.03	
10.0	3.50	3.54	3.60	3.68	3.78	3.91	4.08	
15.0	3.55	3.60	3.66	3.73	3.83	3.96	4.13	
20.0	3.63	3.67	3.73	3.80	3.90	4.03	4.19	4.39
25.0	3.72	3.76	3.82	3.89	3.99	4.11	4.27	4.47
30.0	3.85	3.89	3.94	4.01	4.11	4.23	4.38	4.57
35.0	4.01	4.05	4.10	4.17	4.26	4.37	4.52	4.70
40.0	4.23	4.26	4.31	4.37	4.45	4.56	4.70	4.88
45.0	4.49	4.52	4.56	4.62	4.69	4.79	4.93	5.10
50.0	4.82	4.84	4.87	4.92	4.99	5.09	5.21	5.37
55.0	5.21	5.23	5.25	5.29	5.35	5.44	5.55	5.70

Cond °C	Suction Mass Flow, g/s							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	9.25	11.85	15.10	19.05	23.90	29.60	36.50	
10.0	9.33	11.95	15.15	19.10	23.90	29.60	36.40	
15.0	9.40	12.00	15.25	19.15	23.90	29.60	36.30	
20.0	9.46	12.10	15.30	19.20	23.90	29.50	36.20	44.10
25.0	9.49	12.15	15.35	19.25	23.90	29.50	36.10	44.00
30.0	9.50	12.20	15.40	19.25	23.90	29.40	36.00	43.90
35.0	9.47	12.20	15.40	19.25	23.90	29.40	36.00	43.70
40.0	9.40	12.15	15.40	19.25	23.90	29.30	35.90	43.60
45.0	9.28	12.10	15.35	19.25	23.80	29.30	35.80	43.60
50.0	9.09	12.00	15.30	19.15	23.80	29.20	35.70	43.50
55.0	8.82	11.80	15.20	19.10	23.70	29.20	35.70	43.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	9.95
Length/Width, mm	243/244
Height, mm	405
Net Weight, kg	28
Gross Weight, kg	31
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.5
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 (LT), dBA	63
Sound Power (LT), dBA	74
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.10
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.1
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
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
Current Sensing Relay	External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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