



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ 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
5.0	1.23	1.56	1.96	2.46	3.05	3.75	4.56	
10.0	1.20	1.53	1.93	2.42	2.99	3.68	4.47	
15.0	1.17	1.50	1.89	2.36	2.93	3.59	4.36	
20.0	1.13	1.45	1.84	2.30	2.84	3.49	4.24	5.10
25.0	1.08	1.40	1.77	2.22	2.75	3.37	4.09	4.93
30.0	1.03	1.34	1.70	2.13	2.64	3.23	3.93	4.74
35.0	0.98	1.27	1.62	2.02	2.51	3.08	3.75	4.52
40.0	0.92	1.20	1.52	1.92	2.37	2.92	3.55	4.29
45.0	0.86	1.12	1.42	1.79	2.22	2.74	3.34	4.04
50.0	0.79	1.03	1.32	1.66	2.06	2.54	3.11	3.77
55.0	0.72	0.94	1.20	1.52	1.89	2.34	2.86	3.48

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	0.57	0.61	0.65	0.69	0.73	0.77	0.80	
10.0	0.65	0.70	0.74	0.79	0.84	0.89	0.94	
15.0	0.72	0.77	0.82	0.87	0.93	0.98	1.04	
20.0	0.79	0.84	0.89	0.94	1.01	1.07	1.14	1.20
25.0	0.88	0.92	0.97	1.02	1.08	1.15	1.22	1.30
30.0	0.98	1.02	1.06	1.12	1.18	1.24	1.31	1.38
35.0	1.12	1.16	1.19	1.23	1.28	1.34	1.42	1.49
40.0	1.32	1.32	1.35	1.38	1.43	1.48	1.54	1.62
45.0	1.56	1.56	1.56	1.58	1.62	1.66	1.71	1.78
50.0	1.87	1.84	1.84	1.84	1.86	1.88	1.93	1.98
55.0	2.26	2.21	2.18	2.17	2.17	2.18	2.20	2.24

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	2.03	2.05	2.07	2.09	2.12	2.14	2.16	
10.0	2.08	2.11	2.14	2.18	2.21	2.25	2.30	
15.0	2.12	2.15	2.19	2.24	2.29	2.34	2.40	
20.0	2.16	2.20	2.25	2.30	2.35	2.41	2.48	2.55
25.0	2.23	2.26	2.31	2.36	2.42	2.49	2.56	2.64
30.0	2.32	2.35	2.40	2.45	2.50	2.57	2.65	2.74
35.0	2.47	2.49	2.52	2.57	2.62	2.69	2.76	2.85
40.0	2.67	2.68	2.70	2.74	2.79	2.84	2.92	3.00
45.0	2.95	2.95	2.95	2.97	3.01	3.06	3.12	3.20
50.0	3.32	3.29	3.28	3.29	3.31	3.34	3.39	3.46
55.0	3.79	3.74	3.71	3.69	3.69	3.71	3.74	3.80

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	5.45	6.91	8.74	10.95	13.65	16.85	20.60	
10.0	5.51	7.02	8.88	11.15	13.85	17.10	20.90	
15.0	5.55	7.10	8.99	11.30	14.05	17.30	21.10	
20.0	5.56	7.14	9.06	11.35	14.15	17.45	21.30	25.90
25.0	5.55	7.15	9.09	11.40	14.20	17.50	21.40	26.00
30.0	5.51	7.12	9.07	11.40	14.20	17.50	21.40	26.00
35.0	5.44	7.07	9.02	11.35	14.15	17.45	21.40	26.00
40.0	5.35	6.97	8.92	11.25	14.00	17.35	21.20	25.90
45.0	5.24	6.85	8.77	11.05	13.85	17.10	21.00	25.70
50.0	5.09	6.68	8.57	10.85	13.55	16.85	20.70	25.40
55.0	4.93	6.47	8.32	10.55	13.25	16.45	20.30	25.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.92
Length/Width, mm	243/245
Height, mm	369
Net Weight, kg	25.4
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.3
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 (19)
Sound Pressure @ 1m (LT), dBA	57
Sound Power (LT), dBA	68
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	4.10
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	5
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
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