



Minimum Evaporating Temp. With:

- █ 25 °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	0.0	5.0	7.0
10.0	2.59	3.27	4.08	5.05	6.19	7.54					
15.0	2.49	3.14	3.92	4.84	5.93	7.21	8.69				
20.0	2.39	3.02	3.76	4.63	5.67	6.87	8.28	9.90			
25.0	2.29	2.89	3.59	4.42	5.39	6.53	7.85	9.38	11.15		
30.0	2.18	2.75	3.41	4.19	5.10	6.17	7.41	8.85	10.50	12.40	13.25
35.0	2.07	2.61	3.23	3.95	4.80	5.80	6.96	8.30	9.86	11.65	12.40
40.0	1.94	2.45	3.03	3.70	4.49	5.41	6.48	7.73	9.18	10.85	11.60
45.0	1.80	2.27	2.81	3.43	4.15	4.99	5.98	7.14	8.48	10.05	10.70
50.0	1.64	2.08	2.57	3.13	3.79	4.55	5.46	6.51	7.75	9.18	9.81
55.0	1.47	1.87	2.31	2.82	3.40	4.09	4.90	5.86	6.98	8.29	8.87
60.0						3.59	4.32	5.17	6.18	7.37	7.90

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	1.30	1.34	1.42	1.52	1.64	1.78					
15.0	1.40	1.44	1.51	1.60	1.71	1.84	2.00				
20.0	1.52	1.56	1.62	1.70	1.80	1.92	2.07	2.23			
25.0	1.66	1.68	1.74	1.81	1.91	2.03	2.16	2.32	2.49		
30.0	1.80	1.82	1.88	1.94	2.04	2.15	2.28	2.42	2.59	2.76	2.84
35.0	1.96	1.98	2.03	2.10	2.18	2.29	2.41	2.56	2.71	2.88	2.96
40.0	2.14	2.16	2.20	2.27	2.35	2.46	2.58	2.71	2.87	3.03	3.10
45.0	2.33	2.35	2.40	2.46	2.55	2.65	2.76	2.90	3.05	3.21	3.27
50.0	2.54	2.56	2.61	2.68	2.76	2.86	2.98	3.11	3.25	3.41	3.48
55.0	2.77	2.79	2.84	2.91	3.00	3.10	3.22	3.35	3.49	3.65	3.72
60.0						3.36	3.48	3.62	3.76	3.92	3.98

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	4.95	4.98	5.03	5.08	5.15	5.22					
15.0	4.96	4.99	5.03	5.09	5.16	5.24	5.33				
20.0	4.97	5.00	5.05	5.11	5.18	5.27	5.37	5.48			
25.0	5.00	5.03	5.08	5.14	5.22	5.31	5.42	5.54	5.67		
30.0	5.06	5.09	5.13	5.20	5.28	5.38	5.49	5.61	5.75	5.90	5.97
35.0	5.14	5.17	5.21	5.28	5.36	5.47	5.58	5.72	5.86	6.02	6.09
40.0	5.26	5.28	5.33	5.40	5.48	5.59	5.71	5.85	6.00	6.17	6.25
45.0	5.41	5.44	5.48	5.55	5.64	5.75	5.87	6.02	6.18	6.36	6.44
50.0	5.62	5.64	5.68	5.75	5.84	5.95	6.08	6.23	6.40	6.59	6.67
55.0	5.87	5.89	5.93	6.00	6.09	6.20	6.33	6.49	6.67	6.86	6.95
60.0						6.51	6.65	6.81	6.99	7.19	7.28

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	14.50	18.40	23.00	28.60	35.30	43.20					
15.0	14.55	18.45	23.10	28.70	35.30	43.10	52.40				
20.0	14.60	18.50	23.10	28.70	35.20	43.00	52.20	63.10			
25.0	14.65	18.55	23.20	28.70	35.20	42.90	52.00	62.80	75.40		
30.0	14.70	18.60	23.20	28.60	35.10	42.70	51.80	62.50	75.10	89.90	96.60
35.0	14.70	18.65	23.20	28.60	34.90	42.50	51.50	62.10	74.60	89.50	96.20
40.0	14.70	18.60	23.10	28.40	34.70	42.10	51.00	61.60	74.10	89.00	95.70
45.0	14.55	18.50	22.90	28.20	34.30	41.70	50.50	61.00	73.50	88.50	95.30
50.0	14.35	18.25	22.60	27.80	33.80	41.10	49.80	60.20	72.80	87.90	94.70
55.0	13.95	17.85	22.20	27.20	33.20	40.30	48.90	59.30	72.00	87.30	94.30
60.0						39.40	48.00	58.40	71.30	87.00	94.20

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 Power with Sound Shell (LT), dBA	66
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
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	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