



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	1.50	1.87	2.33	2.89	3.56	4.36					
15.0	1.43	1.79	2.23	2.76	3.40	4.16	5.05				
20.0	1.36	1.72	2.14	2.64	3.24	3.95	4.79	5.77			
25.0	1.30	1.64	2.05	2.52	3.09	3.75	4.54	5.45	6.51		
30.0	1.25	1.58	1.96	2.40	2.93	3.55	4.28	5.13	6.12	7.25	7.75
35.0	1.18	1.50	1.86	2.28	2.77	3.34	4.02	4.80	5.72	6.78	7.24
40.0	1.12	1.42	1.76	2.15	2.60	3.13	3.75	4.47	5.31	6.29	6.72
45.0	1.04	1.33	1.65	2.01	2.42	2.90	3.47	4.13	4.90	5.80	6.19
50.0	0.96	1.24	1.52	1.86	2.23	2.66	3.17	3.77	4.47	5.28	5.65
55.0	0.86	1.12	1.39	1.68	2.02	2.41	2.86	3.39	4.02	4.76	5.08
60.0						2.14	2.53	3.00	3.56	4.21	4.50

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	0.76	0.81	0.86	0.92	0.99	1.06					
15.0	0.83	0.88	0.93	0.99	1.05	1.12	1.20				
20.0	0.91	0.95	1.00	1.06	1.12	1.20	1.28	1.36			
25.0	0.99	1.03	1.08	1.14	1.20	1.27	1.35	1.44	1.54		
30.0	1.08	1.13	1.18	1.23	1.30	1.36	1.44	1.53	1.63	1.74	1.80
35.0	1.20	1.25	1.29	1.34	1.40	1.47	1.54	1.64	1.74	1.85	1.90
40.0	1.34	1.38	1.42	1.48	1.54	1.60	1.68	1.76	1.86	1.98	2.02
45.0	1.51	1.55	1.59	1.64	1.70	1.76	1.83	1.92	2.01	2.12	2.17
50.0	1.71	1.74	1.78	1.83	1.88	1.94	2.02	2.10	2.19	2.30	2.35
55.0	1.94	1.98	2.01	2.06	2.11	2.17	2.24	2.32	2.41	2.51	2.56
60.0						2.43	2.50	2.57	2.66	2.77	2.81

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	2.17	2.20	2.24	2.29	2.35	2.42					
15.0	2.21	2.25	2.29	2.34	2.40	2.48	2.57				
20.0	2.26	2.30	2.34	2.40	2.46	2.54	2.63	2.73			
25.0	2.33	2.36	2.41	2.47	2.54	2.62	2.71	2.81	2.93		
30.0	2.42	2.45	2.50	2.56	2.63	2.71	2.81	2.91	3.04	3.17	3.23
35.0	2.53	2.57	2.62	2.67	2.75	2.83	2.93	3.04	3.16	3.30	3.36
40.0	2.68	2.72	2.76	2.82	2.90	2.98	3.08	3.19	3.32	3.46	3.52
45.0	2.87	2.91	2.95	3.01	3.09	3.17	3.27	3.38	3.51	3.66	3.72
50.0	3.10	3.14	3.19	3.25	3.32	3.41	3.51	3.62	3.75	3.89	3.96
55.0	3.39	3.43	3.48	3.53	3.61	3.69	3.79	3.91	4.04	4.18	4.24
60.0						4.03	4.13	4.25	4.38	4.52	4.59

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	8.41	10.55	13.15	16.40	20.30	25.00					
15.0	8.36	10.50	13.15	16.35	20.20	24.90	30.40				
20.0	8.36	10.55	13.15	16.35	20.20	24.80	30.20	36.70			
25.0	8.38	10.60	13.20	16.35	20.10	24.70	30.10	36.50	44.00		
30.0	8.42	10.65	13.30	16.40	20.10	24.60	29.90	36.20	43.70	52.60	56.60
35.0	8.45	10.75	13.35	16.45	20.10	24.50	29.70	35.90	43.30	52.10	56.10
40.0	8.47	10.80	13.45	16.50	20.10	24.40	29.50	35.60	42.90	51.60	55.60
45.0	8.45	10.80	13.45	16.50	20.00	24.20	29.20	35.20	42.50	51.10	55.10
50.0	8.35	10.80	13.45	16.45	19.90	24.00	28.90	34.80	42.00	50.60	54.50
55.0	8.15	10.70	13.35	16.30	19.70	23.70	28.60	34.40	41.50	50.10	54.00
60.0						23.40	28.20	33.90	41.00	49.70	53.70

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /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: 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
Refrigerant's GWP	3922
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**

<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