



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified 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	1.52	1.96	2.53	3.22	4.07	5.08	6.27	
10.0	1.46	1.88	2.42	3.08	3.88	4.84	5.98	
15.0	1.40	1.80	2.31	2.94	3.70	4.62	5.70	
20.0	1.34	1.72	2.21	2.80	3.52	4.39	5.42	6.62
25.0	1.28	1.65	2.11	2.67	3.35	4.17	5.14	6.28
30.0	1.23	1.58	2.01	2.54	3.18	3.96	4.88	5.95
35.0	1.17	1.50	1.92	2.41	3.02	3.74	4.61	5.63
40.0	1.12	1.43	1.82	2.28	2.85	3.53	4.35	5.31
45.0	1.06	1.36	1.72	2.16	2.69	3.33	4.09	4.99
50.0	0.99	1.28	1.62	2.03	2.52	3.12	3.83	4.67
55.0	0.93	1.20	1.52	1.90	2.36	2.91	3.57	4.36

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	0.69	0.76	0.83	0.93	1.04	1.18	1.34	
10.0	0.75	0.81	0.88	0.97	1.08	1.20	1.35	
15.0	0.82	0.87	0.94	1.02	1.12	1.24	1.38	
20.0	0.90	0.95	1.02	1.09	1.18	1.28	1.42	1.57
25.0	0.99	1.04	1.10	1.17	1.26	1.36	1.48	1.62
30.0	1.10	1.16	1.21	1.28	1.35	1.44	1.56	1.68
35.0	1.24	1.28	1.34	1.40	1.47	1.56	1.66	1.78
40.0	1.40	1.44	1.49	1.55	1.62	1.69	1.78	1.89
45.0	1.58	1.62	1.67	1.72	1.78	1.85	1.94	2.04
50.0	1.78	1.82	1.87	1.92	1.98	2.04	2.12	2.21
55.0	2.01	2.06	2.10	2.15	2.20	2.26	2.33	2.41

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	2.51	2.55	2.60	2.66	2.74	2.84	2.98	
10.0	2.53	2.57	2.62	2.68	2.77	2.87	3.00	
15.0	2.57	2.61	2.66	2.72	2.80	2.90	3.03	
20.0	2.62	2.66	2.71	2.77	2.85	2.95	3.07	3.23
25.0	2.68	2.73	2.78	2.84	2.92	3.01	3.13	3.28
30.0	2.77	2.82	2.87	2.93	3.01	3.10	3.22	3.36
35.0	2.89	2.94	2.99	3.05	3.13	3.22	3.33	3.47
40.0	3.05	3.10	3.15	3.20	3.27	3.36	3.47	3.60
45.0	3.24	3.29	3.34	3.39	3.46	3.54	3.64	3.77
50.0	3.47	3.52	3.57	3.62	3.69	3.76	3.86	3.98
55.0	3.75	3.80	3.85	3.90	3.96	4.03	4.12	4.24

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	6.74	8.73	11.25	14.40	18.25	22.90	28.40	
10.0	6.67	8.63	11.10	14.20	18.00	22.50	28.00	
15.0	6.62	8.55	11.00	14.05	17.75	22.20	27.60	
20.0	6.57	8.49	10.90	13.90	17.55	22.00	27.20	33.50
25.0	6.54	8.44	10.80	13.75	17.35	21.70	26.90	33.10
30.0	6.52	8.40	10.75	13.65	17.15	21.40	26.60	32.70
35.0	6.50	8.37	10.70	13.50	17.00	21.20	26.30	32.40
40.0	6.48	8.35	10.65	13.45	16.85	21.00	26.00	32.00
45.0	6.46	8.33	10.60	13.35	16.70	20.80	25.80	31.70
50.0	6.43	8.31	10.55	13.30	16.60	20.60	25.50	31.50
55.0	6.39	8.30	10.55	13.25	16.50	20.50	25.40	31.30

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	7.31
Length/Width, mm	243/245
Height, mm	391
Net Weight, kg	27.2
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.48
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	59
Sound Power (LT), dBA	70
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	4.30
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	6
Locked Rotor Current, A	32
Winding Resistance, ohm	5.94
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