



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	4.95	6.25	7.87	9.84	12.20	15.00	18.30	
10.0	4.77	6.05	7.63	9.55	11.85	14.55	17.75	
15.0	4.59	5.84	7.38	9.23	11.45	14.05	17.10	
20.0	4.40	5.62	7.11	8.90	11.05	13.55	16.50	19.90
25.0	4.21	5.39	6.82	8.54	10.60	13.00	15.80	19.10
30.0	4.00	5.15	6.52	8.17	10.10	12.45	15.10	18.25
35.0	3.80	4.90	6.21	7.77	9.63	11.80	14.40	17.35
40.0	3.58	4.63	5.88	7.36	9.12	11.20	13.60	16.45
45.0	3.36	4.36	5.53	6.93	8.58	10.55	12.80	15.50
50.0	3.13	4.07	5.18	6.48	8.02	9.84	12.00	14.50
55.0	2.90	3.78	4.80	6.01	7.44	9.13	11.10	13.45

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	1.95	2.08	2.22	2.36	2.50	2.64	2.76	
10.0	2.10	2.23	2.37	2.52	2.67	2.82	2.97	
15.0	2.26	2.39	2.54	2.70	2.86	3.02	3.19	
20.0	2.45	2.58	2.73	2.89	3.07	3.24	3.43	3.61
25.0	2.67	2.80	2.95	3.12	3.30	3.50	3.70	3.90
30.0	2.94	3.07	3.22	3.39	3.59	3.79	4.01	4.23
35.0	3.26	3.39	3.54	3.72	3.92	4.14	4.37	4.61
40.0	3.65	3.77	3.93	4.11	4.32	4.55	4.79	5.05
45.0	4.11	4.23	4.39	4.57	4.79	5.03	5.29	5.57
50.0	4.67	4.78	4.93	5.12	5.34	5.59	5.87	6.17
55.0	5.32	5.42	5.58	5.77	5.99	6.25	6.54	6.86

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	4.54	4.82	5.10	5.37	5.62	5.85	6.07	
10.0	4.90	5.16	5.42	5.67	5.92	6.15	6.37	
15.0	5.25	5.48	5.72	5.97	6.21	6.44	6.67	
20.0	5.59	5.81	6.03	6.27	6.50	6.74	6.98	7.21
25.0	5.95	6.15	6.36	6.59	6.82	7.07	7.31	7.56
30.0	6.34	6.52	6.72	6.94	7.18	7.43	7.69	7.95
35.0	6.77	6.93	7.12	7.34	7.58	7.84	8.11	8.40
40.0	7.26	7.41	7.59	7.81	8.05	8.32	8.61	8.92
45.0	7.83	7.96	8.14	8.36	8.61	8.89	9.19	9.53
50.0	8.48	8.61	8.78	9.00	9.26	9.55	9.88	10.24
55.0	9.24	9.36	9.53	9.75	10.02	10.33	10.67	11.06

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	21.90	27.70	35.00	43.90	54.70	67.60	82.80	
10.0	21.80	27.80	35.10	44.00	54.80	67.70	82.90	
15.0	21.70	27.70	35.10	44.10	54.90	67.80	83.00	
20.0	21.60	27.70	35.10	44.10	54.90	67.70	82.90	100.50
25.0	21.50	27.60	35.00	44.00	54.80	67.60	82.70	100.50
30.0	21.30	27.40	34.90	43.80	54.60	67.30	82.40	100.00
35.0	21.10	27.20	34.70	43.60	54.30	67.00	82.00	99.70
40.0	20.80	27.00	34.40	43.30	53.90	66.50	81.50	99.10
45.0	20.60	26.70	34.10	42.90	53.40	65.90	80.80	98.40
50.0	20.30	26.40	33.70	42.40	52.80	65.20	80.00	97.50
55.0	19.95	26.10	33.30	41.80	52.10	64.30	79.00	96.60

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	21.4
Length/Width, mm	246/257
Height, mm	452
Net Weight, kg	39.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.89
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 (0)
Sound Pressure @ 1m (LT), dBA	70
Sound Power (LT), dBA	81
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	5.70
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	16
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
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