



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	3.88	4.96	6.29	7.90	9.83	12.10	14.80	
10.0	3.76	4.81	6.09	7.63	9.48	11.65	14.20	
15.0	3.63	4.65	5.88	7.36	9.13	11.20	13.65	
20.0	3.49	4.48	5.67	7.09	8.77	10.75	13.10	15.80
25.0	3.33	4.30	5.45	6.80	8.41	10.30	12.50	15.05
30.0	3.16	4.10	5.21	6.50	8.03	9.82	11.90	14.35
35.0	2.97	3.89	4.95	6.19	7.64	9.34	11.30	13.65
40.0	2.75	3.65	4.67	5.85	7.22	8.83	10.70	12.90
45.0	2.50	3.38	4.36	5.49	6.79	8.31	10.05	12.10
50.0	2.22	3.08	4.03	5.10	6.33	7.76	9.41	11.35
55.0	1.90	2.74	3.66	4.68	5.84	7.18	8.73	10.55

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	1.83	1.87	1.94	2.01	2.10	2.18	2.26	
10.0	1.90	1.94	2.01	2.10	2.21	2.32	2.43	
15.0	2.00	2.03	2.10	2.20	2.32	2.45	2.58	
20.0	2.16	2.17	2.23	2.33	2.45	2.59	2.74	2.90
25.0	2.39	2.38	2.42	2.50	2.62	2.76	2.93	3.10
30.0	2.71	2.67	2.69	2.75	2.86	2.99	3.16	3.34
35.0	3.16	3.08	3.06	3.10	3.18	3.30	3.46	3.64
40.0	3.74	3.61	3.55	3.55	3.61	3.71	3.85	4.02
45.0	4.48	4.29	4.18	4.14	4.16	4.23	4.35	4.50
50.0	5.40	5.15	4.98	4.89	4.86	4.89	4.98	5.11
55.0	6.52	6.20	5.97	5.81	5.73	5.72	5.76	5.86

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	4.92	5.05	5.20	5.36	5.52	5.67	5.80	
10.0	5.24	5.35	5.47	5.62	5.77	5.91	6.05	
15.0	5.52	5.59	5.69	5.81	5.95	6.09	6.23	
20.0	5.77	5.80	5.87	5.97	6.10	6.23	6.38	6.51
25.0	6.02	6.02	6.06	6.13	6.24	6.37	6.50	6.65
30.0	6.31	6.26	6.27	6.32	6.40	6.52	6.65	6.80
35.0	6.65	6.56	6.53	6.55	6.62	6.72	6.84	6.99
40.0	7.09	6.96	6.89	6.88	6.92	7.00	7.11	7.25
45.0	7.65	7.47	7.35	7.31	7.32	7.38	7.49	7.62
50.0	8.36	8.12	7.97	7.88	7.87	7.91	8.00	8.12
55.0	9.25	8.96	8.75	8.63	8.58	8.60	8.67	8.78

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	17.20	22.00	28.00	35.30	44.00	54.50	66.90	
10.0	17.20	22.10	28.00	35.20	43.90	54.30	66.50	
15.0	17.20	22.10	28.00	35.20	43.80	54.00	66.20	
20.0	17.15	22.10	28.00	35.10	43.60	53.80	65.80	79.90
25.0	17.00	22.00	27.90	35.00	43.50	53.50	65.40	79.40
30.0	16.80	21.90	27.80	34.90	43.30	53.20	65.00	78.90
35.0	16.45	21.60	27.60	34.70	43.00	52.90	64.60	78.30
40.0	15.95	21.30	27.30	34.40	42.70	52.50	64.00	77.70
45.0	15.30	20.70	26.90	33.90	42.20	52.00	63.50	77.10
50.0	14.30	19.95	26.20	33.30	41.60	51.30	62.80	76.30
55.0	13.05	18.90	25.30	32.50	40.90	50.60	62.00	75.60

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	17.1
Length/Width, mm	246/251
Height, mm	442
Net Weight, kg	41
Gross Weight, kg	44
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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	65
Sound Power (LT), dBA	76
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	5.70
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.5
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
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