



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	6.48	8.21	10.35	12.90	16.00	19.60	23.80	
10.0	6.26	7.97	10.05	12.55	15.55	19.10	23.20	
15.0	6.02	7.70	9.75	12.20	15.10	18.50	22.50	
20.0	5.76	7.42	9.41	11.80	14.60	17.90	21.70	26.10
25.0	5.50	7.11	9.04	11.35	14.05	17.20	20.90	25.10
30.0	5.21	6.78	8.64	10.85	13.45	16.45	20.00	24.10
35.0	4.93	6.44	8.22	10.35	12.80	15.70	19.05	22.90
40.0	4.63	6.08	7.78	9.78	12.10	14.85	18.05	21.70
45.0	4.33	5.71	7.32	9.20	11.40	14.00	17.00	20.50
50.0	4.03	5.33	6.84	8.60	10.65	13.10	15.90	19.15
55.0	3.73	4.94	6.34	7.97	9.88	12.15	14.75	17.80

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	2.73	2.80	2.90	3.03	3.18	3.34	3.50	
10.0	2.90	2.96	3.06	3.20	3.36	3.54	3.72	
15.0	3.11	3.16	3.27	3.41	3.59	3.78	3.99	
20.0	3.37	3.42	3.53	3.68	3.87	4.08	4.31	4.54
25.0	3.68	3.74	3.85	4.01	4.21	4.44	4.69	4.95
30.0	4.07	4.12	4.23	4.40	4.62	4.87	5.15	5.44
35.0	4.53	4.58	4.70	4.88	5.11	5.38	5.68	6.00
40.0	5.07	5.12	5.25	5.44	5.68	5.98	6.30	6.66
45.0	5.71	5.76	5.89	6.09	6.35	6.67	7.02	7.41
50.0	6.45	6.50	6.63	6.85	7.13	7.46	7.84	8.26
55.0	7.29	7.34	7.49	7.71	8.01	8.37	8.78	9.23

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	7.47	7.79	8.13	8.47	8.81	9.14	9.45	
10.0	8.18	8.42	8.68	8.97	9.26	9.56	9.85	
15.0	8.79	8.96	9.17	9.41	9.67	9.95	10.24	
20.0	9.34	9.46	9.62	9.83	10.08	10.35	10.65	10.95
25.0	9.87	9.94	10.08	10.27	10.51	10.79	11.11	11.45
30.0	10.42	10.46	10.57	10.76	11.01	11.31	11.66	12.05
35.0	11.01	11.03	11.14	11.34	11.61	11.95	12.34	12.79
40.0	11.69	11.71	11.83	12.04	12.35	12.73	13.18	13.70
45.0	12.49	12.51	12.66	12.91	13.26	13.70	14.23	14.83
50.0	13.45	13.49	13.67	13.97	14.38	14.89	15.51	16.21
55.0	14.60	14.68	14.90	15.26	15.74	16.34	17.06	17.87

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	28.70	36.40	46.00	57.60	71.60	88.30	108.00	
10.0	28.70	36.50	46.20	58.00	72.10	88.90	108.50	
15.0	28.50	36.60	46.40	58.30	72.40	89.20	109.00	
20.0	28.30	36.50	46.40	58.40	72.60	89.40	109.00	132.50
25.0	28.00	36.40	46.40	58.30	72.60	89.40	109.50	132.50
30.0	27.70	36.10	46.20	58.20	72.40	89.30	109.00	132.00
35.0	27.30	35.80	45.90	57.90	72.10	88.90	108.50	132.00
40.0	26.90	35.50	45.50	57.50	71.60	88.30	108.00	131.00
45.0	26.50	35.00	45.10	56.90	70.90	87.50	107.00	130.00
50.0	26.10	34.60	44.50	56.20	70.10	86.60	106.00	129.00
55.0	25.60	34.10	43.90	55.50	69.20	85.50	105.00	128.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	29.1
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	63.1
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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	68
Sound Power (LT), dBA	79
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	25
Locked Rotor Current, A	100
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
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
TFC	200-240 V / 3~ / 50 Hz	200		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TFC	208-230 V / 3~ / 60 Hz	220		Y	2.18