



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- 20 °C Suction Gas Return
- 25 °C Suction Gas Return with Voltage limit $\pm 0\%$
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	6.10	7.59	9.42	11.60						
15.0	5.90	7.36	9.13	11.25						
20.0	5.70	7.11	8.82	10.85	13.25					
25.0	5.48	6.86	8.50	10.45	12.75	15.40	16.55			
30.0	5.25	6.58	8.17	10.05	12.20	14.70	15.85	17.60	19.20	
35.0	5.01	6.30	7.82	9.59	11.65	14.05	15.10	16.80	18.30	19.90
40.0	4.76	6.00	7.46	9.14	11.10	13.35	14.35	15.90	17.35	18.85
45.0		5.69	7.08	8.68	10.50	12.65	13.55	15.05	16.40	17.80
50.0			6.69	8.20	9.93	11.90	12.75	14.15	15.40	16.75
55.0				7.70	9.32	11.15	11.95	13.25	14.40	15.65
60.0				7.19	8.69	10.40	11.15	12.35	13.40	14.50
65.0					8.05	9.61	10.30	11.40	12.35	13.35
70.0						8.81	9.43	10.40	11.30	12.20
75.0						7.99	8.55	9.43	10.20	11.05

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	1.42	1.42	1.40	1.38						
15.0	1.60	1.62	1.61	1.60						
20.0	1.80	1.82	1.82	1.82	1.82					
25.0	2.02	2.04	2.05	2.05	2.06	2.08	2.09			
30.0	2.25	2.28	2.29	2.30	2.31	2.33	2.35	2.37	2.40	
35.0	2.51	2.54	2.56	2.57	2.59	2.61	2.62	2.65	2.68	2.72
40.0	2.81	2.84	2.86	2.87	2.89	2.91	2.93	2.96	2.99	3.02
45.0		3.17	3.19	3.21	3.22	3.25	3.26	3.29	3.32	3.36
50.0			3.57	3.58	3.60	3.62	3.64	3.67	3.70	3.73
55.0				4.01	4.02	4.04	4.06	4.08	4.11	4.15
60.0				4.48	4.49	4.51	4.52	4.55	4.57	4.61
65.0					5.02	5.04	5.05	5.07	5.09	5.12
70.0						5.63	5.64	5.65	5.67	5.70
75.0						6.29	6.29	6.31	6.32	6.35

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	6.20	6.16	6.11	6.06						
15.0	6.34	6.31	6.27	6.24						
20.0	6.47	6.46	6.44	6.41	6.40					
25.0	6.62	6.61	6.60	6.59	6.59	6.60	6.61			
30.0	6.78	6.79	6.79	6.79	6.79	6.81	6.82	6.85	6.88	
35.0	6.98	6.99	7.00	7.01	7.02	7.05	7.06	7.09	7.12	7.16
40.0	7.22	7.24	7.26	7.27	7.29	7.32	7.33	7.37	7.40	7.44
45.0		7.55	7.57	7.59	7.61	7.64	7.66	7.69	7.72	7.77
50.0			7.95	7.96	7.99	8.02	8.04	8.07	8.10	8.15
55.0				8.42	8.44	8.47	8.49	8.52	8.56	8.60
60.0				8.96	8.98	9.01	9.03	9.06	9.09	9.13
65.0					9.62	9.65	9.66	9.69	9.71	9.75
70.0						10.39	10.40	10.42	10.45	10.48
75.0						11.26	11.26	11.28	11.30	11.32

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	29.60	36.90	46.00	57.00						
15.0	29.60	37.10	46.10	57.10						
20.0	29.70	37.20	46.30	57.20	70.20					
25.0	29.60	37.20	46.30	57.20	70.10	85.30	92.10			
30.0	29.60	37.20	46.30	57.20	70.00	85.00	91.80	102.50	112.50	
35.0	29.40	37.10	46.30	57.10	69.80	84.70	91.40	102.00	112.00	122.50
40.0	29.20	37.00	46.20	57.00	69.60	84.40	90.90	101.50	111.50	122.00
45.0		36.80	46.00	56.80	69.30	83.90	90.40	101.00	110.50	121.00
50.0			45.80	56.50	68.90	83.30	89.80	100.00	109.50	120.00
55.0				56.10	68.40	82.70	89.00	99.30	108.50	118.50
60.0				55.60	67.80	81.90	88.20	98.30	107.50	117.50
65.0					67.10	81.00	87.20	97.10	106.00	116.00
70.0						80.10	86.10	95.90	105.00	114.50
75.0						79.00	85.00	94.60	103.50	112.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	18.8
Length/Width, mm	246/250
Height, mm	442
Net Weight, kg	39.2
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	1.77
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 (MT), dBA	62
Sound Power (MT), dBA	73
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	5.40
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	14
Locked Rotor Current, A	101
Winding Resistance, ohm	1.79
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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