



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 18.3°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	6.75	8.46	10.55	13.00						
15.0	6.47	8.14	10.15	12.60						
20.0	6.18	7.80	9.77	12.10	14.85					
25.0	5.89	7.46	9.36	11.60	14.25	17.35	18.70			
30.0	5.60	7.11	8.94	11.10	13.65	16.60	17.95	20.00	21.90	
35.0	5.31	6.75	8.51	10.60	13.05	15.85	17.10	19.10	20.90	
40.0	5.01	6.39	8.06	10.05	12.35	15.05	16.25	18.20	19.90	
45.0		6.02	7.60	9.48	11.70	14.25	15.40	17.20	18.85	
50.0			7.14	8.91	11.00	13.40	14.50	16.20	17.75	
55.0				8.32	10.30	12.55	13.55	15.15	16.60	
60.0				7.72	9.54	11.65	12.60	14.10	15.45	
65.0					8.79	10.75	11.65	13.05	14.30	
70.0						9.83	10.65	11.90	13.05	
75.0						8.88	9.61	10.80	11.85	

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	1.74	1.73	1.74	1.76						
15.0	1.98	1.97	1.98	2.00						
20.0	2.22	2.22	2.22	2.24	2.27					
25.0	2.48	2.48	2.49	2.51	2.53	2.57	2.59			
30.0	2.76	2.77	2.78	2.80	2.82	2.85	2.87	2.89	2.92	
35.0	3.06	3.08	3.10	3.12	3.14	3.17	3.18	3.20	3.22	
40.0	3.39	3.42	3.44	3.47	3.49	3.52	3.53	3.55	3.57	
45.0		3.79	3.83	3.86	3.89	3.91	3.93	3.94	3.96	
50.0			4.25	4.29	4.32	4.35	4.36	4.38	4.39	
55.0				4.76	4.81	4.84	4.85	4.87	4.88	
60.0				5.29	5.34	5.38	5.40	5.42	5.43	
65.0					5.94	5.99	6.00	6.02	6.04	
70.0						6.65	6.67	6.69	6.71	
75.0						7.38	7.41	7.43	7.45	

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	7.57	7.49	7.45	7.46						
15.0	7.76	7.70	7.66	7.65						
20.0	7.98	7.92	7.89	7.88	7.91					
25.0	8.22	8.17	8.15	8.15	8.17	8.22	8.25			
30.0	8.49	8.47	8.46	8.46	8.48	8.52	8.54	8.58	8.63	
35.0	8.82	8.81	8.82	8.83	8.85	8.89	8.90	8.94	8.97	
40.0	9.19	9.22	9.24	9.26	9.29	9.32	9.34	9.37	9.39	
45.0		9.69	9.73	9.77	9.81	9.84	9.86	9.88	9.90	
50.0			10.31	10.36	10.41	10.45	10.47	10.49	10.51	
55.0				11.05	11.11	11.16	11.18	11.20	11.22	
60.0				11.84	11.92	11.98	12.00	12.03	12.04	
65.0					12.84	12.92	12.94	12.97	12.99	
70.0						13.98	14.01	14.05	14.07	
75.0						15.18	15.22	15.27	15.29	

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	33.00	41.40	51.80	64.30						
15.0	32.70	41.30	51.80	64.40						
20.0	32.40	41.10	51.60	64.30	79.40					
25.0	32.10	40.80	51.40	64.20	79.30	97.10	105.00			
30.0	31.80	40.50	51.20	63.90	79.10	96.90	105.00	118.00	129.50	
35.0	31.40	40.20	50.80	63.60	78.80	96.60	104.50	117.50	129.50	
40.0	31.00	39.80	50.40	63.20	78.30	96.20	104.00	117.00	129.00	
45.0		39.30	49.90	62.60	77.80	95.70	103.50	116.50	128.50	
50.0			49.40	62.00	77.10	94.90	103.00	116.00	127.50	
55.0				61.30	76.30	94.10	102.00	115.00	127.00	
60.0				60.50	75.30	93.00	101.00	114.00	125.50	
65.0					74.30	91.90	99.80	112.50	124.50	
70.0						90.60	98.40	111.50	123.00	
75.0						89.10	97.00	110.00	121.50	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	21.4
Length/Width, mm	258/263
Height, mm	442
Net Weight, kg	43.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
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 (19)
Sound Pressure @ 1m (MT), dBA	68
Sound Power (MT), dBA	79
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	5.70
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	15.9
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	External thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
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