



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- 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	2.66	3.34	4.15	5.13						
15.0	2.55	3.21	4.01	4.96						
20.0	2.44	3.08	3.85	4.77	5.86					
25.0	2.33	2.94	3.69	4.58	5.63	6.84	7.38			
30.0	2.21	2.81	3.53	4.38	5.39	6.55	7.07	7.90	8.64	
35.0	2.09	2.67	3.35	4.17	5.14	6.25	6.75	7.54	8.25	
40.0	1.98	2.52	3.18	3.96	4.88	5.94	6.41	7.17	7.85	
45.0		2.38	3.00	3.74	4.61	5.62	6.07	6.78	7.43	
50.0			2.82	3.51	4.34	5.29	5.71	6.39	7.00	
55.0				3.28	4.05	4.95	5.34	5.98	6.55	
60.0				3.05	3.76	4.60	4.97	5.56	6.10	
65.0					3.47	4.24	4.58	5.13	5.63	
70.0						3.87	4.19	4.70	5.15	
75.0						3.50	3.79	4.25	4.66	

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	0.67	0.66	0.67	0.67						
15.0	0.76	0.76	0.76	0.76						
20.0	0.85	0.85	0.85	0.86	0.87					
25.0	0.95	0.95	0.95	0.96	0.97	0.98	0.99			
30.0	1.06	1.06	1.06	1.07	1.08	1.10	1.10	1.11	1.12	
35.0	1.18	1.18	1.18	1.20	1.20	1.22	1.22	1.23	1.24	
40.0	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.36	1.37	
45.0		1.46	1.46	1.48	1.49	1.50	1.50	1.51	1.52	
50.0			1.63	1.64	1.66	1.67	1.67	1.68	1.68	
55.0				1.82	1.84	1.86	1.86	1.86	1.87	
60.0				2.03	2.05	2.06	2.07	2.08	2.08	
65.0					2.28	2.29	2.30	2.31	2.31	
70.0						2.55	2.56	2.56	2.57	
75.0						2.83	2.84	2.85	2.86	

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	2.60	2.57	2.56	2.56						
15.0	2.66	2.64	2.63	2.63						
20.0	2.74	2.72	2.71	2.70	2.71					
25.0	2.82	2.81	2.80	2.80	2.80	2.82	2.83			
30.0	2.91	2.91	2.90	2.90	2.91	2.92	2.93	2.95	2.96	
35.0	3.03	3.02	3.03	3.03	3.04	3.05	3.06	3.07	3.08	
40.0	3.16	3.16	3.17	3.18	3.19	3.20	3.21	3.21	3.22	
45.0		3.32	3.34	3.35	3.37	3.38	3.38	3.39	3.40	
50.0			3.54	3.56	3.57	3.59	3.59	3.60	3.61	
55.0				3.79	3.81	3.83	3.84	3.84	3.85	
60.0				4.06	4.09	4.11	4.12	4.13	4.13	
65.0					4.41	4.43	4.44	4.45	4.46	
70.0						4.80	4.81	4.82	4.83	
75.0						5.21	5.22	5.24	5.25	

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	13.00	16.35	20.40	25.40						
15.0	12.90	16.30	20.40	25.40						
20.0	12.80	16.20	20.40	25.40	31.30					
25.0	12.70	16.10	20.30	25.30	31.30	38.30	41.40			
30.0	12.55	16.00	20.20	25.20	31.20	38.20	41.40	46.40	51.10	
35.0	12.40	15.85	20.00	25.10	31.10	38.10	41.20	46.40	51.00	
40.0	12.25	15.70	19.90	24.90	30.90	37.90	41.10	46.20	50.80	
45.0		15.50	19.70	24.70	30.70	37.70	40.90	46.00	50.60	
50.0			19.45	24.50	30.40	37.40	40.60	45.70	50.40	
55.0				24.20	30.10	37.10	40.20	45.30	50.00	
60.0				23.80	29.70	36.70	39.80	44.90	49.60	
65.0					29.30	36.20	39.30	44.40	49.10	
70.0						35.70	38.80	43.90	48.50	
75.0						35.10	38.20	43.30	47.90	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.61
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	27.3
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.24
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 (MT), dBA	58
Sound Power (MT), dBA	69
Sound Power with Sound Shell (MT), dBA	62
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	2.50
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.2
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (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