



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	8.59	10.50	12.80	15.55					
15.0	8.22	10.10	12.30	14.90	17.90				
20.0	7.83	9.62	11.75	14.20	17.05	20.30			
25.0	7.43	9.14	11.15	13.50	16.20	19.30	22.80		
30.0	7.01	8.63	10.55	12.75	15.30	18.20	21.50	23.00	25.30
35.0	6.57	8.10	9.88	11.95	14.35	17.05	20.20	21.60	23.70
40.0	6.12	7.55	9.21	11.15	13.35	15.90	18.80	20.10	22.10
45.0		6.98	8.51	10.25	12.30	14.65	17.30	18.50	20.40
50.0		6.38	7.77	9.37	11.20	13.35	15.80	16.85	18.60
55.0			7.01	8.44	10.10	12.00	14.20	15.20	16.75
60.0				7.48	8.94	10.65	12.60	13.45	14.85

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.16	2.29	2.45	2.64					
15.0	2.35	2.48	2.63	2.81	3.02				
20.0	2.56	2.69	2.84	3.01	3.21	3.43			
25.0	2.79	2.93	3.08	3.25	3.43	3.64	3.88		
30.0	3.05	3.20	3.36	3.52	3.70	3.90	4.12	4.21	4.36
35.0	3.34	3.51	3.67	3.84	4.01	4.20	4.41	4.49	4.63
40.0	3.66	3.84	4.02	4.19	4.37	4.55	4.75	4.83	4.95
45.0		4.22	4.41	4.59	4.77	4.95	5.14	5.21	5.33
50.0		4.63	4.83	5.03	5.22	5.40	5.58	5.66	5.77
55.0			5.30	5.52	5.71	5.90	6.09	6.16	6.27
60.0				6.05	6.26	6.46	6.64	6.72	6.82

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	4.92	5.18	5.49	5.89					
15.0	5.31	5.52	5.76	6.07	6.49				
20.0	5.68	5.86	6.05	6.29	6.62	7.06			
25.0	6.03	6.20	6.36	6.55	6.81	7.17	7.65		
30.0	6.38	6.55	6.70	6.86	7.07	7.36	7.75	7.95	8.29
35.0	6.71	6.91	7.07	7.22	7.40	7.64	7.96	8.13	8.42
40.0	7.05	7.29	7.47	7.63	7.80	8.01	8.29	8.43	8.68
45.0		7.69	7.92	8.11	8.28	8.48	8.73	8.86	9.07
50.0		8.12	8.41	8.65	8.85	9.06	9.30	9.41	9.61
55.0			8.96	9.26	9.50	9.74	9.99	10.10	10.29
60.0				9.94	10.25	10.53	10.81	10.93	11.12

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	48.30	59.50	72.90	88.90					
15.0	48.20	59.40	72.90	88.90	108.00				
20.0	48.00	59.30	72.80	88.80	107.50	129.50			
25.0	47.70	59.10	72.50	88.50	107.00	129.00	155.00		
30.0	47.40	58.70	72.10	88.00	106.50	128.50	154.50	166.00	184.50
35.0	47.00	58.30	71.60	87.40	106.00	127.50	153.50	165.00	183.50
40.0	46.50	57.70	70.90	86.50	105.00	126.50	152.00	163.50	182.00
45.0		57.00	70.10	85.50	103.50	125.00	150.50	162.00	180.50
50.0		56.30	69.10	84.30	102.50	123.50	149.00	160.50	179.00
55.0			68.10	83.00	100.50	122.00	147.00	158.50	177.50
60.0				81.70	99.20	120.00	145.50	157.00	176.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	17.1
Length/Width, mm	241/246
Height, mm	481
Net Weight, kg	39.9
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
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 (8.5)
Sound Pressure @ 1m (MT), dBA	61
Sound Power (MT), dBA	72
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Low Side Internal Free Volume, l	6.3
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	6.80
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.3
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	NTC sensor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Mounting Grommets	Hard Mounts for Paralleling
Solenoid valve	Standard
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
Solenoid Valve Kit	220 V Ac 12" lead Length
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Tubing Kit	220 V 0.3m Rotalock
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

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