



Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 20 °C Suction Gas Return
- 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
23.0	4.48									
25.0	4.37									
30.0	4.10	5.17	6.43	7.90						
35.0	3.84	4.87	6.08	7.49	9.14	11.10				
40.0		4.58	5.71	7.05	8.62	10.45	11.30	12.60	13.80	15.10
45.0		4.28	5.35	6.60	8.07	9.80	10.55	11.85	12.95	14.20
50.0			4.98	6.14	7.50	9.11	9.83	11.00	12.05	13.25
55.0				5.67	6.91	8.39	9.06	10.15	11.15	12.20
60.0				5.20	6.31	7.65	8.26	9.25	10.15	11.15
65.0					5.71	6.89	7.43	8.33	9.15	10.05
70.0					5.09	6.12	6.59	7.38	8.11	8.91
75.0						5.33	5.73	6.41	7.04	7.75

Additional restrictions, please see application guidelines

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
23.0	1.52									
25.0	1.57									
30.0	1.70	1.76	1.82	1.88						
35.0	1.84	1.92	1.98	2.04	2.11	2.17				
40.0		2.08	2.16	2.23	2.29	2.35	2.38	2.43	2.47	2.51
45.0		2.27	2.36	2.43	2.50	2.56	2.59	2.63	2.66	2.70
50.0			2.57	2.65	2.73	2.79	2.82	2.85	2.89	2.92
55.0				2.89	2.98	3.04	3.07	3.11	3.14	3.17
60.0				3.15	3.25	3.32	3.35	3.38	3.41	3.44
65.0					3.53	3.62	3.65	3.69	3.72	3.74
70.0					3.84	3.94	3.97	4.01	4.04	4.07
75.0						4.28	4.31	4.36	4.40	4.43

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
23.0	4.29									
25.0	4.37									
30.0	4.58	4.67	4.75	4.83						
35.0	4.78	4.88	4.96	5.04	5.12	5.20				
40.0		5.09	5.18	5.26	5.34	5.41	5.45	5.50	5.55	5.61
45.0		5.31	5.41	5.50	5.58	5.65	5.68	5.73	5.78	5.83
50.0			5.66	5.76	5.85	5.92	5.95	6.00	6.04	6.08
55.0				6.05	6.14	6.23	6.26	6.30	6.34	6.39
60.0				6.36	6.47	6.57	6.60	6.65	6.69	6.74
65.0					6.84	6.95	6.99	7.05	7.09	7.14
70.0					7.25	7.38	7.43	7.49	7.54	7.59
75.0						7.86	7.91	7.99	8.05	8.11

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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
23.0	26.90									
25.0	26.70									
30.0	26.20	33.20	41.50	51.30						
35.0	25.70	32.80	41.10	51.00	62.70	76.70				
40.0		32.40	40.70	50.50	62.20	76.20	82.60	93.00	102.50	113.00
45.0		32.00	40.20	50.00	61.60	75.50	81.90	92.30	102.00	112.50
50.0			39.80	49.30	60.80	74.60	80.90	91.30	101.00	111.50
55.0				48.60	59.90	73.50	79.70	90.00	99.50	110.00
60.0				47.90	58.80	72.10	78.20	88.40	97.80	108.50
65.0					57.60	70.50	76.40	86.40	95.80	106.00
70.0					56.30	68.60	74.40	84.20	93.40	103.50
75.0						66.60	72.10	81.50	90.60	101.00

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	246/250
Height, mm	481
Net Weight, kg	38.1
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
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	67
Sound Power (MT), dBA	78
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	631
Refrigerant's classification	A1

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

Maximum Operating Current, A	11.3
Locked Rotor Current, A	64
Winding Resistance, ohm	2.8
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	NTC sensor
Mounting Grommets	Standard

Additional restrictions, please see application guidelines

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

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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

Additional restrictions, please see application guidelines