



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- 5 K Suction Superheat OEM envelope
- Maximum Evaporating Temperature

Additional restrictions, please see application guidelines

Suction Superheat 10.0K	Liquid Subcooling 0.0K
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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	20.0	25.0
14.0	3.78											
15.0	3.75											
20.0	3.57	4.45	5.51									
25.0	3.38	4.23	5.24	6.44	7.87							
30.0	3.17	3.99	4.96	6.10	7.46	9.06	9.77					
35.0	2.94	3.74	4.66	5.75	7.04	8.55	9.23	10.30	11.30	12.40		
40.0	2.70	3.47	4.36	5.39	6.61	8.03	8.67	9.71	10.65	11.65	13.95	
45.0	2.43	3.18	4.04	5.02	6.17	7.51	8.12	9.09	9.98	10.95	13.05	15.55
50.0		2.88	3.70	4.64	5.72	6.99	7.55	8.47	9.30	10.20	12.20	14.55
55.0			3.35	4.24	5.27	6.45	6.98	7.84	8.62	9.47	11.35	13.55
60.0			2.99	3.83	4.80	5.91	6.41	7.21	7.94	8.73	10.50	12.55
65.0				3.41	4.32	5.36	5.83	6.58	7.25	7.99	9.63	11.55
70.0					3.83	4.80	5.24	5.93	6.56	7.24	8.78	
75.0					3.33	4.24	4.64	5.28	5.86	6.50		

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
14.0	0.93											
15.0	0.96											
20.0	1.08	1.10	1.10									
25.0	1.22	1.25	1.25	1.25	1.24							
30.0	1.38	1.41	1.42	1.42	1.41	1.41	1.41					
35.0	1.56	1.59	1.60	1.60	1.60	1.60	1.60	1.60	1.62	1.64		
40.0	1.76	1.79	1.80	1.80	1.80	1.80	1.80	1.80	1.82	1.84	1.88	
45.0	1.99	2.01	2.02	2.02	2.01	2.01	2.01	2.02	2.03	2.04	2.09	2.17
50.0		2.26	2.26	2.26	2.25	2.24	2.24	2.24	2.25	2.27	2.31	2.38
55.0			2.53	2.51	2.50	2.49	2.48	2.49	2.49	2.50	2.54	2.61
60.0			2.82	2.79	2.77	2.75	2.75	2.74	2.74	2.75	2.78	2.84
65.0				3.10	3.07	3.04	3.03	3.02	3.01	3.02	3.04	3.09
70.0					3.38	3.34	3.33	3.31	3.30	3.30	3.31	
75.0					3.73	3.67	3.65	3.63	3.61	3.60		

Additional restrictions, please see application guidelines

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	20.0	25.0
14.0	3.08											
15.0	3.12											
20.0	3.30	3.32	3.31									
25.0	3.48	3.51	3.51	3.50	3.49							
30.0	3.67	3.70	3.70	3.70	3.70	3.69	3.69					
35.0	3.87	3.89	3.91	3.91	3.90	3.90	3.91	3.91	3.92	3.94		
40.0	4.08	4.11	4.12	4.12	4.12	4.12	4.12	4.13	4.14	4.16	4.21	
45.0	4.32	4.34	4.35	4.34	4.34	4.34	4.34	4.35	4.36	4.38	4.43	4.51
50.0		4.60	4.60	4.59	4.58	4.58	4.58	4.58	4.59	4.61	4.65	4.73
55.0			4.88	4.87	4.85	4.84	4.83	4.84	4.84	4.85	4.90	4.97
60.0			5.20	5.17	5.14	5.12	5.12	5.11	5.11	5.12	5.15	5.22
65.0				5.52	5.48	5.44	5.43	5.42	5.41	5.42	5.44	5.49
70.0					5.85	5.80	5.78	5.76	5.75	5.74	5.75	
75.0					6.27	6.20	6.18	6.15	6.13	6.11		

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	20.0	25.0
14.0	24.70											
15.0	24.70											
20.0	24.70	30.10	36.40									
25.0	24.50	30.00	36.30	43.60	52.10							
30.0	24.30	29.80	36.10	43.40	51.80	61.60	65.90					
35.0	23.90	29.50	35.90	43.10	51.50	61.10	65.30	72.10	78.20	84.70		
40.0	23.20	29.10	35.50	42.80	51.10	60.60	64.80	71.50	77.60	84.00	98.10	
45.0	22.40	28.50	35.00	42.40	50.70	60.10	64.30	70.90	76.90	83.20	97.20	113.00
50.0		27.70	34.40	41.80	50.10	59.50	63.70	70.30	76.10	82.40	96.30	112.00
55.0			33.60	41.20	49.60	58.90	63.00	69.60	75.40	81.70	95.40	111.00
60.0			32.60	40.40	48.90	58.30	62.40	68.90	74.70	81.00	94.60	110.00
65.0				39.40	48.10	57.60	61.70	68.30	74.10	80.30	93.90	109.50
70.0					47.20	56.90	61.00	67.60	73.50	79.70	93.40	
75.0					46.10	56.20	60.40	67.20	73.10	79.40		

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.4
Length/Width, mm	239/244
Height, mm	466
Net Weight, kg	29.9
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.36
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)
Max. Internal Free Volume, l	2.90
High Side PS gauge, bar	29
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	631
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	48
Winding Resistance, ohm	3.88
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Additional restrictions, please see application guidelines

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Mounting Grommets	Rubber Grommet For Single
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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04

Additional restrictions, please see application guidelines