



Minimum Evaporating Temp. With:

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

Suction Return Temperature 18.3°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
4.0	3.45	4.29	5.29	6.49					
5.0	3.44	4.28	5.28	6.48					
10.0	3.34	4.17	5.16	6.34	7.71				
15.0	3.23	4.05	5.02	6.17	7.51				
20.0	3.10	3.91	4.86	5.98	7.28	8.79			
25.0	2.97	3.76	4.68	5.76	7.02	8.47	10.15	10.90	
30.0	2.82	3.59	4.49	5.53	6.73	8.13	9.74	10.45	11.60
35.0	2.67	3.41	4.27	5.27	6.42	7.76	9.29	9.97	11.05
40.0		3.22	4.04	4.99	6.09	7.36	8.82	9.46	10.50
45.0			3.80	4.70	5.74	6.93	8.32	8.92	9.90
50.0			3.54	4.39	5.36	6.48	7.78	8.36	9.28
55.0				4.06	4.97	6.01	7.22	7.76	8.62
60.0					4.55	5.52	6.64	7.13	7.93

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	0.89	0.98	1.09	1.22					
5.0	0.89	0.98	1.09	1.22					
10.0	0.94	1.02	1.13	1.26	1.40				
15.0	1.01	1.09	1.19	1.30	1.44				
20.0	1.10	1.17	1.27	1.38	1.50	1.64			
25.0	1.20	1.28	1.37	1.47	1.58	1.71	1.85	1.92	
30.0	1.35	1.42	1.50	1.59	1.70	1.81	1.94	1.99	2.08
35.0	1.52	1.58	1.66	1.74	1.83	1.94	2.05	2.10	2.17
40.0		1.78	1.85	1.92	2.00	2.09	2.19	2.23	2.30
45.0			2.08	2.14	2.20	2.28	2.36	2.40	2.45
50.0			2.35	2.39	2.45	2.51	2.57	2.60	2.64
55.0				2.69	2.73	2.77	2.82	2.84	2.87
60.0					3.05	3.08	3.11	3.12	3.14

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
4.0	2.38	2.56	2.76	2.97					
5.0	2.40	2.57	2.76	2.98					
10.0	2.51	2.67	2.85	3.04	3.26				
15.0	2.64	2.78	2.94	3.12	3.32				
20.0	2.79	2.92	3.06	3.22	3.40	3.59			
25.0	2.97	3.08	3.21	3.35	3.51	3.68	3.86	3.94	
30.0	3.18	3.27	3.39	3.51	3.65	3.80	3.96	4.03	4.13
35.0	3.42	3.50	3.60	3.70	3.82	3.95	4.10	4.16	4.25
40.0		3.77	3.84	3.94	4.04	4.15	4.27	4.32	4.40
45.0			4.14	4.21	4.29	4.39	4.49	4.53	4.59
50.0			4.48	4.53	4.60	4.67	4.75	4.79	4.84
55.0				4.91	4.96	5.01	5.07	5.10	5.14
60.0					5.37	5.40	5.45	5.46	5.49

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
4.0	15.45	19.25	23.90	29.50					
5.0	15.45	19.30	23.90	29.50					
10.0	15.55	19.45	24.20	29.90	36.60				
15.0	15.55	19.55	24.40	30.10	36.90				
20.0	15.50	19.60	24.50	30.30	37.10	45.20			
25.0	15.40	19.60	24.50	30.40	37.30	45.40	55.00	59.20	
30.0	15.25	19.50	24.50	30.40	37.30	45.50	55.10	59.40	66.40
35.0	15.05	19.35	24.40	30.30	37.20	45.40	55.10	59.40	66.40
40.0		19.20	24.20	30.10	37.10	45.30	54.90	59.30	66.30
45.0			24.00	29.90	36.80	45.00	54.70	59.00	66.10
50.0			23.70	29.60	36.50	44.60	54.30	58.70	65.80
55.0				29.20	36.00	44.20	53.80	58.20	65.40
60.0					35.50	43.60	53.30	57.70	64.90

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.35
Length/Width, mm	243/243
Height, mm	432
Net Weight, kg	30.2
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 (19)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
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	4.1
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.60
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	6.7
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat
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