



Minimum Evaporating Temp. With:

- 20 K Suction Superheat — 20 K Suction Superheat Liquid injection
- 20 °C Suction Gas Return Liquid injection
- Maximum Evaporating Temperature | Voltage limit -5% above -7°C

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
4.0	4.68	6.08	7.74	9.64	11.75	14.10	16.55				
5.0	4.71	6.12	7.78	9.68	11.80	14.10	16.60				
10.0	4.94	6.36	8.04	9.96	12.10	14.40	16.90	19.55			
15.0	5.06	6.50	8.19	10.10	12.25	14.55	17.00	19.65	22.40		
20.0	5.11	6.55	8.24	10.15	12.25	14.55	17.00	19.60	22.30	25.10	
25.0	5.10	6.53	8.19	10.10	12.15	14.40	16.85	19.40	22.00	24.80	25.90
30.0	5.04	6.44	8.08	9.93	12.00	14.20	16.55	19.05	21.70	24.30	25.40
35.0	4.94	6.32	7.91	9.72	11.70	13.85	16.15	18.60	21.10	23.70	24.80
40.0	4.84	6.16	7.71	9.46	11.40	13.50	15.70	18.05	20.50	23.00	24.10
45.0		5.99	7.48	9.16	11.00	13.05	15.15	17.45	19.80	22.20	
50.0							14.60	16.75	19.00		

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
4.0	1.70	1.92	2.17	2.49	2.87	3.31	3.81				
5.0	1.72	1.92	2.18	2.50	2.87	3.30	3.79				
10.0	1.90	2.08	2.30	2.57	2.88	3.25	3.67	4.14			
15.0	2.11	2.28	2.49	2.73	3.00	3.31	3.67	4.06	4.50		
20.0	2.36	2.54	2.74	2.96	3.21	3.48	3.79	4.12	4.49	4.90	
25.0	2.63	2.83	3.04	3.26	3.50	3.75	4.02	4.31	4.62	4.96	5.11
30.0	2.92	3.16	3.39	3.63	3.86	4.11	4.36	4.62	4.89	5.17	5.29
35.0	3.23	3.51	3.78	4.05	4.30	4.55	4.79	5.03	5.28	5.53	5.63
40.0	3.54	3.88	4.21	4.51	4.79	5.06	5.31	5.55	5.79	6.01	6.10
45.0		4.27	4.66	5.02	5.34	5.64	5.92	6.17	6.40	6.62	
50.0							6.60	6.88	7.12		

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
4.0	5.60	5.78	6.03	6.34	6.71	7.13	7.61				
5.0	5.60	5.77	6.02	6.32	6.69	7.10	7.57				
10.0	5.65	5.80	6.00	6.26	6.57	6.91	7.29	7.71			
15.0	5.77	5.91	6.10	6.34	6.60	6.90	7.21	7.55	7.90		
20.0	5.95	6.11	6.31	6.53	6.78	7.04	7.31	7.59	7.88	8.16	
25.0	6.19	6.39	6.60	6.84	7.08	7.33	7.58	7.83	8.06	8.28	8.36
30.0	6.47	6.72	6.98	7.24	7.51	7.76	8.01	8.23	8.44	8.62	8.68
35.0	6.77	7.10	7.42	7.73	8.04	8.32	8.58	8.81	9.00	9.16	9.21
40.0	7.09	7.51	7.92	8.30	8.66	8.99	9.28	9.53	9.73	9.89	9.93
45.0		7.95	8.46	8.93	9.37	9.76	10.10	10.39	10.63	10.80	
50.0							11.04	11.39	11.67		

Cond °C	Suction Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
4.0	20.60	26.30	33.40	42.00	52.20	64.10	77.70				
5.0	20.50	26.20	33.40	42.00	52.20	64.10	77.70				
10.0	19.85	25.70	33.00	41.80	52.10	64.10	77.80	93.40			
15.0	19.45	25.50	32.80	41.70	52.20	64.20	78.00	93.70	111.00		
20.0	19.25	25.40	32.80	41.80	52.30	64.40	78.30	93.90	111.50	131.00	
25.0	19.25	25.40	32.90	41.90	52.40	64.60	78.50	94.10	111.50	131.00	139.50
30.0	19.30	25.50	33.00	42.00	52.60	64.70	78.60	94.20	111.50	131.00	139.50
35.0	19.35	25.60	33.10	42.10	52.60	64.70	78.50	94.10	111.50	131.00	139.00
40.0	19.40	25.60	33.10	42.00	52.40	64.50	78.20	93.70	111.00	130.50	138.50
45.0		25.40	32.90	41.70	52.10	64.00	77.60	93.00	110.00	129.50	
50.0							76.70	91.90	109.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	21.4
Length/Width, mm	246/250
Height, mm	481
Net Weight, kg	43.1
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
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 (0)
Sound Pressure @ 1m (LT), dBA	70
Sound Power (LT), dBA	81
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	1
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	16
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (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
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