



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return

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
10.0	7.36	9.09	11.10	13.45					
15.0	7.02	8.67	10.60	12.80	15.40				
20.0	6.66	8.22	10.05	12.15	14.60	17.35			
25.0	6.28	7.75	9.47	11.45	13.75	16.40	19.35		
30.0	5.89	7.27	8.88	10.75	12.90	15.40	18.15	19.40	21.30
35.0	5.48	6.76	8.27	10.00	12.05	14.35	16.95	18.10	19.95
40.0	5.05	6.24	7.64	9.26	11.15	13.30	15.75	16.80	18.50
45.0	4.61	5.70	6.99	8.48	10.20	12.20	14.50	15.50	17.10
50.0		5.15	6.32	7.68	9.27	11.10	13.20	14.10	15.60
55.0			5.63	6.86	8.30	9.97	11.90	12.75	14.10
60.0				6.02	7.31	8.81	10.55	11.30	12.55

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	1.85	1.84	1.82	1.80					
15.0	2.10	2.09	2.08	2.06	2.03				
20.0	2.37	2.37	2.36	2.34	2.32	2.28			
25.0	2.67	2.67	2.66	2.65	2.63	2.60	2.56		
30.0	2.99	3.00	3.00	2.99	2.97	2.95	2.92	2.90	2.87
35.0	3.35	3.36	3.36	3.36	3.35	3.33	3.30	3.28	3.26
40.0	3.75	3.76	3.76	3.76	3.76	3.74	3.71	3.70	3.68
45.0	4.18	4.19	4.20	4.20	4.20	4.19	4.16	4.15	4.13
50.0		4.67	4.68	4.68	4.68	4.67	4.65	4.64	4.63
55.0			5.20	5.20	5.20	5.20	5.18	5.17	5.16
60.0				5.77	5.77	5.77	5.76	5.75	5.74

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	6.37	6.36	6.35	6.35					
15.0	6.60	6.60	6.60	6.60	6.60				
20.0	6.88	6.89	6.89	6.89	6.89	6.89			
25.0	7.21	7.22	7.23	7.23	7.23	7.22	7.21		
30.0	7.60	7.62	7.63	7.63	7.62	7.61	7.60	7.59	7.58
35.0	8.08	8.10	8.11	8.11	8.10	8.08	8.06	8.05	8.03
40.0	8.65	8.68	8.69	8.68	8.67	8.64	8.61	8.59	8.57
45.0	9.33	9.36	9.37	9.36	9.34	9.31	9.26	9.24	9.21
50.0		10.16	10.17	10.16	10.13	10.09	10.03	10.00	9.96
55.0			11.10	11.09	11.06	11.00	10.93	10.90	10.85
60.0				12.17	12.12	12.06	11.98	11.94	11.87

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	41.80	51.80	63.80	77.80					
15.0	41.50	51.50	63.40	77.30	93.60				
20.0	41.20	51.10	62.90	76.70	92.90	112.00			
25.0	40.80	50.60	62.30	76.00	92.10	111.00	133.00		
30.0	40.20	49.90	61.50	75.10	91.10	110.00	131.50	141.50	157.50
35.0	39.60	49.20	60.60	74.10	90.00	108.50	130.50	140.50	156.50
40.0	38.80	48.30	59.50	72.90	88.70	107.50	129.00	139.00	155.00
45.0	37.90	47.20	58.30	71.60	87.20	106.00	128.00	137.50	154.00
50.0		46.00	57.00	70.10	85.70	104.50	126.50	136.50	153.00
55.0			55.50	68.50	84.10	102.50	125.00	135.50	152.00
60.0				67.00	82.60	101.50	124.50	135.00	152.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	37.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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 Power with Sound Shell (MT), dBA	67
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.20
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.8
Locked Rotor Current, A	65.5
Winding Resistance, ohm	2.74
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

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