



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- 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	6.36	7.91	9.69	11.75					
5.0	6.35	7.91	9.68	11.75					
10.0	6.25	7.82	9.58	11.60	14.00				
15.0	6.05	7.62	9.37	11.35	13.70				
20.0	5.77	7.33	9.06	11.00	13.30	15.95			
25.0	5.42	6.97	8.67	10.60	12.80	15.35	18.35	19.70	
30.0	5.02	6.56	8.22	10.05	12.20	14.65	17.55	18.85	21.00
35.0	4.59	6.11	7.72	9.51	11.55	13.90	16.70	17.95	19.95
40.0		5.63	7.20	8.92	10.85	13.15	15.80	16.95	18.90
45.0			6.67	8.31	10.15	12.30	14.80	15.95	17.80
50.0			6.14	7.71	9.46	11.50	13.85	14.90	16.65
55.0				7.12	8.76	10.65	12.90	13.85	15.50
60.0					8.09	9.85	11.90	12.85	14.35

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	1.54	1.61	1.68	1.76					
5.0	1.55	1.62	1.68	1.76					
10.0	1.67	1.72	1.77	1.83	1.90				
15.0	1.84	1.88	1.92	1.96	2.01				
20.0	2.06	2.09	2.11	2.14	2.19	2.24			
25.0	2.33	2.35	2.37	2.39	2.41	2.46	2.52	2.55	
30.0	2.65	2.66	2.67	2.68	2.70	2.73	2.78	2.81	2.85
35.0	3.01	3.02	3.03	3.03	3.04	3.06	3.10	3.12	3.16
40.0		3.43	3.43	3.43	3.43	3.44	3.47	3.49	3.52
45.0			3.88	3.87	3.87	3.88	3.90	3.92	3.95
50.0			4.37	4.36	4.36	4.37	4.38	4.40	4.42
55.0				4.90	4.90	4.90	4.92	4.93	4.95
60.0					5.48	5.48	5.50	5.51	5.53

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	5.87	5.92	5.90	5.86					
5.0	5.83	5.88	5.87	5.83					
10.0	5.57	5.64	5.65	5.63	5.63				
15.0	5.45	5.53	5.55	5.55	5.56				
20.0	5.46	5.55	5.57	5.58	5.59	5.67			
25.0	5.59	5.68	5.71	5.71	5.73	5.81	5.98	6.09	
30.0	5.83	5.92	5.94	5.94	5.95	6.03	6.20	6.31	6.51
35.0	6.19	6.27	6.28	6.26	6.27	6.33	6.49	6.59	6.79
40.0		6.71	6.71	6.67	6.66	6.71	6.85	6.95	7.14
45.0			7.22	7.17	7.13	7.15	7.27	7.36	7.54
50.0			7.82	7.74	7.67	7.66	7.75	7.83	7.99
55.0				8.37	8.27	8.23	8.28	8.34	8.48
60.0					8.93	8.84	8.86	8.90	9.01

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	28.50	35.60	43.70	53.40					
5.0	28.60	35.70	43.90	53.50					
10.0	29.00	36.50	44.90	54.70	66.40				
15.0	29.10	36.80	45.50	55.50	67.30				
20.0	28.80	36.80	45.60	55.80	67.80	82.00			
25.0	28.10	36.30	45.40	55.80	67.90	82.20	99.40	107.00	
30.0	27.10	35.60	44.90	55.40	67.60	82.00	99.30	107.00	120.00
35.0	25.90	34.70	44.10	54.70	67.00	81.50	98.90	107.00	120.00
40.0		33.60	43.20	53.90	66.20	80.80	98.30	106.00	119.50
45.0			42.10	52.90	65.30	79.90	97.50	105.50	118.50
50.0			41.10	51.90	64.40	79.00	96.60	104.50	118.00
55.0				51.10	63.60	78.30	96.00	104.00	117.50
60.0					63.10	77.90	95.70	104.00	117.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /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	60
Sound Power (MT), dBA	71
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	1397
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**

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