



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified Liquid injection
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°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
5.0	7.66	9.84	12.55	15.75	19.55	24.00	29.10	
10.0	7.39	9.51	12.10	15.25	18.90	23.20	28.10	
15.0	7.13	9.18	11.70	14.70	18.25	22.30	27.10	
20.0	6.86	8.85	11.25	14.15	17.55	21.50	26.00	31.20
25.0	6.60	8.51	10.80	13.60	16.85	20.60	25.00	29.90
30.0	6.32	8.16	10.35	13.00	16.10	19.70	23.90	28.60
35.0	6.04	7.79	9.89	12.40	15.35	18.75	22.70	27.20
40.0	5.75	7.41	9.40	11.75	14.55	17.80	21.50	25.80
45.0	5.44	7.00	8.88	11.10	13.70	16.75	20.30	24.40
50.0	5.10	6.58	8.33	10.40	12.85	15.70	19.00	22.80
55.0	4.75	6.12	7.75	9.67	11.95	14.60	17.70	21.30

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	3.10	3.45	3.86	4.33	4.91	5.62	6.47	
10.0	3.33	3.69	4.09	4.56	5.14	5.84	6.70	
15.0	3.57	3.92	4.32	4.79	5.36	6.06	6.91	
20.0	3.84	4.18	4.57	5.04	5.60	6.29	7.13	8.14
25.0	4.15	4.48	4.86	5.32	5.87	6.54	7.37	8.38
30.0	4.52	4.84	5.21	5.65	6.19	6.85	7.66	8.65
35.0	4.97	5.28	5.63	6.05	6.57	7.22	8.01	8.98
40.0	5.52	5.81	6.14	6.54	7.04	7.67	8.44	9.39
45.0	6.19	6.45	6.76	7.14	7.62	8.22	8.97	9.90
50.0	6.99	7.23	7.51	7.86	8.32	8.89	9.61	10.50
55.0	7.94	8.15	8.40	8.73	9.15	9.70	10.40	11.25

Cond °C	Current at 400 V, A							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	9.90	10.14	10.43	10.81	11.33	12.03	12.95	
10.0	10.07	10.33	10.63	11.03	11.57	12.28	13.22	
15.0	10.23	10.51	10.83	11.24	11.79	12.52	13.47	
20.0	10.42	10.71	11.04	11.46	12.02	12.76	13.73	14.96
25.0	10.66	10.95	11.29	11.72	12.29	13.04	14.01	15.25
30.0	10.97	11.27	11.62	12.06	12.63	13.38	14.36	15.61
35.0	11.39	11.69	12.04	12.48	13.06	13.82	14.80	16.04
40.0	11.94	12.25	12.59	13.03	13.61	14.37	15.35	16.59
45.0	12.66	12.96	13.30	13.74	14.31	15.06	16.04	17.28
50.0	13.56	13.85	14.19	14.62	15.19	15.93	16.90	18.14
55.0	14.67	14.96	15.29	15.71	16.27	17.00	17.96	19.19

Cond °C	Suction Mass Flow, g/s							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	33.90	43.70	55.70	70.30	87.70	108.00	132.00	
10.0	33.80	43.60	55.70	70.20	87.50	108.00	131.50	
15.0	33.80	43.60	55.60	70.20	87.40	107.50	131.50	
20.0	33.70	43.60	55.60	70.10	87.20	107.50	131.00	158.00
25.0	33.70	43.50	55.50	69.90	87.00	107.00	130.50	158.00
30.0	33.60	43.50	55.40	69.70	86.70	106.50	130.00	157.00
35.0	33.50	43.40	55.20	69.50	86.30	106.00	129.50	156.50
40.0	33.40	43.20	55.00	69.10	85.90	105.50	129.00	155.50
45.0	33.30	43.00	54.70	68.60	85.20	105.00	128.00	155.00
50.0	33.00	42.60	54.20	68.00	84.50	104.00	127.00	153.50
55.0	32.60	42.20	53.60	67.30	83.60	103.00	125.50	152.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	35.3
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	63.1
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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	69
Sound Power (LT), dBA	80
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	29
Locked Rotor Current, A	118
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
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
TFC	200-240 V / 3~ / 50 Hz	200		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TFC	208-230 V / 3~ / 60 Hz	220		Y	2.18