



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	3.09	3.91	4.93	6.16	7.64	9.39	11.40	
10.0	3.02	3.83	4.83	6.04	7.48	9.18	11.15	
15.0	2.94	3.74	4.71	5.89	7.29	8.93	10.85	
20.0	2.84	3.62	4.57	5.71	7.06	8.65	10.50	12.65
25.0	2.73	3.49	4.41	5.51	6.81	8.34	10.10	12.20
30.0	2.61	3.34	4.22	5.28	6.52	7.98	9.69	11.65
35.0	2.48	3.18	4.02	5.02	6.21	7.60	9.22	11.10
40.0	2.34	3.01	3.80	4.74	5.86	7.18	8.72	10.50
45.0	2.19	2.82	3.56	4.45	5.50	6.73	8.19	9.88
50.0	2.04	2.62	3.31	4.13	5.10	6.26	7.61	9.20
55.0	1.88	2.41	3.04	3.79	4.69	5.75	7.01	8.49

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	1.35	1.45	1.56	1.68	1.82	1.97	2.14	
10.0	1.46	1.54	1.65	1.77	1.90	2.06	2.22	
15.0	1.57	1.66	1.76	1.88	2.01	2.16	2.33	
20.0	1.70	1.79	1.89	2.01	2.14	2.29	2.45	2.64
25.0	1.88	1.96	2.06	2.17	2.30	2.45	2.62	2.80
30.0	2.09	2.17	2.26	2.38	2.51	2.66	2.83	3.01
35.0	2.35	2.43	2.53	2.64	2.77	2.93	3.09	3.28
40.0	2.67	2.75	2.85	2.96	3.10	3.25	3.42	3.62
45.0	3.06	3.14	3.24	3.36	3.50	3.65	3.83	4.02
50.0	3.54	3.62	3.72	3.84	3.98	4.14	4.31	4.52
55.0	4.10	4.18	4.28	4.40	4.55	4.71	4.89	5.10

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	4.12	4.19	4.27	4.37	4.49	4.62	4.77	
10.0	4.19	4.26	4.35	4.45	4.57	4.71	4.87	
15.0	4.28	4.35	4.44	4.55	4.67	4.82	4.99	
20.0	4.39	4.46	4.55	4.66	4.80	4.95	5.13	5.33
25.0	4.53	4.61	4.70	4.82	4.96	5.13	5.31	5.52
30.0	4.74	4.81	4.91	5.04	5.18	5.35	5.55	5.76
35.0	5.01	5.09	5.19	5.32	5.47	5.65	5.85	6.08
40.0	5.37	5.45	5.55	5.68	5.84	6.03	6.24	6.48
45.0	5.82	5.90	6.01	6.15	6.31	6.51	6.73	6.98
50.0	6.38	6.47	6.58	6.72	6.89	7.10	7.33	7.59
55.0	7.07	7.16	7.28	7.43	7.60	7.81	8.05	8.32

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	13.70	17.35	21.90	27.50	34.20	42.20	51.70	
10.0	13.85	17.60	22.20	27.90	34.70	42.70	52.20	
15.0	13.90	17.75	22.40	28.10	34.90	43.00	52.60	
20.0	13.95	17.85	22.60	28.30	35.10	43.30	52.80	64.00
25.0	13.95	17.85	22.60	28.30	35.20	43.30	52.90	64.10
30.0	13.85	17.80	22.60	28.30	35.10	43.30	52.80	64.10
35.0	13.75	17.70	22.50	28.10	35.00	43.00	52.60	63.80
40.0	13.60	17.55	22.20	27.90	34.60	42.70	52.20	63.40
45.0	13.40	17.30	21.90	27.50	34.20	42.10	51.60	62.80
50.0	13.15	17.00	21.50	27.00	33.60	41.40	50.80	61.90
55.0	12.90	16.65	21.00	26.40	32.80	40.50	49.80	60.90

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	246/251
Height, mm	442
Net Weight, kg	39
Gross Weight, kg	42
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 (LT), dBA	62
Sound Power (LT), dBA	73
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	5.90
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	64
Winding Resistance, ohm	2.75
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Current Sensing Relay	External
Liquid Injection	DTC Valve
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