



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified Liquid injection
- 25 °C Suction Gas Return Liquid injection
- Maximum Evaporating Temperature

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
10.0	3.77	4.74	5.94	7.38	9.08	11.05					
15.0	3.60	4.54	5.68	7.06	8.67	10.55	12.75				
20.0	3.42	4.33	5.42	6.72	8.25	10.05	12.10	14.45			
25.0	3.24	4.11	5.14	6.37	7.81	9.49	11.45	13.65	16.20		
30.0	3.06	3.88	4.85	6.00	7.36	8.93	10.75	12.85	15.20	17.90	19.05
35.0	2.87	3.64	4.56	5.63	6.89	8.35	10.05	12.00	14.20	16.70	17.80
40.0	2.68	3.40	4.25	5.24	6.40	7.75	9.31	11.10	13.15	15.50	16.50
45.0	2.49	3.16	3.93	4.84	5.90	7.13	8.56	10.20	12.10	14.25	15.20
50.0	2.29	2.90	3.61	4.43	5.38	6.50	7.80	9.29	11.00	13.00	13.85
55.0	2.10	2.65	3.28	4.00	4.86	5.85	7.01	8.35	9.91	11.70	12.45
60.0						5.18	6.20	7.39	8.77	10.35	11.05

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
10.0	1.68	1.78	1.89	2.04	2.22	2.44					
15.0	1.83	1.93	2.05	2.18	2.35	2.56	2.81				
20.0	2.00	2.11	2.22	2.35	2.51	2.71	2.94	3.23			
25.0	2.18	2.30	2.42	2.55	2.70	2.88	3.10	3.37	3.70		
30.0	2.39	2.51	2.64	2.77	2.92	3.10	3.31	3.56	3.86	4.22	4.38
35.0	2.61	2.75	2.89	3.03	3.18	3.35	3.55	3.79	4.07	4.41	4.56
40.0	2.86	3.02	3.17	3.32	3.48	3.65	3.84	4.07	4.33	4.65	4.79
45.0	3.15	3.33	3.49	3.65	3.82	3.99	4.18	4.40	4.65	4.95	5.09
50.0	3.46	3.67	3.85	4.03	4.20	4.38	4.57	4.78	5.03	5.32	5.45
55.0	3.81	4.04	4.25	4.45	4.63	4.82	5.02	5.23	5.47	5.75	5.87
60.0						5.32	5.52	5.74	5.98	6.25	6.37

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
10.0	4.90	5.25	5.54	5.80	6.05	6.29					
15.0	5.45	5.72	5.93	6.12	6.29	6.47	6.68				
20.0	5.85	6.05	6.20	6.33	6.45	6.59	6.76	6.98			
25.0	6.13	6.28	6.39	6.48	6.58	6.69	6.84	7.05	7.33		
30.0	6.34	6.46	6.54	6.61	6.69	6.80	6.95	7.16	7.45	7.84	8.03
35.0	6.51	6.61	6.69	6.76	6.84	6.96	7.12	7.36	7.68	8.10	8.31
40.0	6.67	6.78	6.86	6.95	7.06	7.20	7.40	7.68	8.05	8.52	8.75
45.0	6.87	7.00	7.11	7.24	7.39	7.58	7.83	8.16	8.59	9.14	9.40
50.0	7.13	7.31	7.47	7.65	7.86	8.11	8.44	8.85	9.36	10.00	10.29
55.0	7.51	7.74	7.97	8.22	8.51	8.85	9.26	9.77	10.38	11.13	11.46
60.0						9.82	10.34	10.96	11.69	12.56	12.95

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
10.0	21.10	26.70	33.60	41.90	51.80	63.50					
15.0	21.00	26.60	33.50	41.70	51.60	63.20	76.80				
20.0	20.90	26.50	33.40	41.60	51.30	62.80	76.30	92.10			
25.0	20.80	26.40	33.20	41.30	51.00	62.40	75.80	91.40	109.50		
30.0	20.60	26.30	33.00	41.00	50.60	61.80	75.10	90.50	108.50	129.50	139.00
35.0	20.50	26.10	32.70	40.70	50.10	61.20	74.20	89.60	107.50	128.50	138.00
40.0	20.30	25.90	32.40	40.20	49.50	60.40	73.30	88.50	106.50	127.00	136.50
45.0	20.10	25.60	32.10	39.80	48.80	59.60	72.30	87.20	105.00	126.00	135.00
50.0	20.00	25.40	31.80	39.20	48.10	58.60	71.10	85.90	103.50	124.50	134.00
55.0	19.90	25.30	31.50	38.70	47.40	57.70	69.90	84.60	102.00	123.00	132.50
60.0						56.80	68.90	83.50	101.00	122.00	132.00

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	65
Sound Power (LT), dBA	76
Sound Power with Sound Shell (LT), dBA	70
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
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	3922
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