



Minimum Evaporating Temp. With:

- █ 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	2.07	2.62	3.29	4.08	5.02	6.11					
15.0	1.98	2.51	3.15	3.91	4.80	5.84	7.04				
20.0	1.89	2.40	3.01	3.73	4.57	5.56	6.69	8.00			
25.0	1.80	2.29	2.87	3.55	4.34	5.27	6.34	7.57	8.98		
30.0	1.72	2.18	2.72	3.36	4.10	4.97	5.98	7.14	8.46	9.97	10.60
35.0	1.62	2.06	2.57	3.16	3.86	4.67	5.60	6.69	7.93	9.34	9.96
40.0	1.53	1.94	2.41	2.96	3.60	4.35	5.22	6.22	7.38	8.69	9.27
45.0	1.42	1.80	2.24	2.74	3.33	4.01	4.81	5.74	6.81	8.03	8.57
50.0	1.32	1.66	2.06	2.51	3.05	3.67	4.39	5.24	6.22	7.34	7.84
55.0	1.20	1.51	1.86	2.27	2.75	3.30	3.96	4.72	5.61	6.64	7.09
60.0						2.92	3.50	4.18	4.97	5.90	6.31

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	1.03	1.08	1.13	1.21	1.30	1.40					
15.0	1.12	1.16	1.21	1.28	1.36	1.47	1.58				
20.0	1.22	1.25	1.30	1.36	1.45	1.54	1.66	1.78			
25.0	1.33	1.36	1.40	1.46	1.54	1.64	1.74	1.86	2.00		
30.0	1.46	1.48	1.52	1.58	1.66	1.74	1.85	1.96	2.10	2.24	2.30
35.0	1.61	1.62	1.66	1.72	1.78	1.87	1.97	2.08	2.21	2.35	2.41
40.0	1.78	1.78	1.82	1.86	1.93	2.01	2.11	2.22	2.34	2.48	2.53
45.0	1.96	1.96	1.99	2.03	2.09	2.17	2.26	2.37	2.49	2.62	2.68
50.0	2.17	2.17	2.19	2.22	2.28	2.35	2.44	2.54	2.66	2.79	2.85
55.0	2.40	2.39	2.41	2.44	2.49	2.56	2.64	2.74	2.85	2.98	3.03
60.0						2.78	2.86	2.96	3.07	3.19	3.24

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	4.18	4.21	4.24	4.28	4.34	4.40					
15.0	4.21	4.23	4.27	4.31	4.36	4.43	4.51				
20.0	4.25	4.27	4.31	4.35	4.40	4.47	4.55	4.65			
25.0	4.31	4.33	4.36	4.40	4.46	4.53	4.61	4.70	4.82		
30.0	4.38	4.40	4.43	4.47	4.53	4.60	4.68	4.78	4.89	5.03	5.09
35.0	4.48	4.49	4.52	4.56	4.62	4.69	4.77	4.87	4.99	5.13	5.19
40.0	4.60	4.61	4.64	4.68	4.73	4.80	4.89	4.99	5.11	5.25	5.31
45.0	4.75	4.76	4.78	4.82	4.87	4.94	5.03	5.13	5.26	5.40	5.46
50.0	4.93	4.93	4.95	4.99	5.04	5.11	5.19	5.30	5.43	5.58	5.64
55.0	5.14	5.14	5.16	5.19	5.24	5.31	5.40	5.50	5.63	5.78	5.85
60.0						5.54	5.63	5.74	5.87	6.02	6.09

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	11.60	14.75	18.60	23.20	28.60	35.10					
15.0	11.55	14.75	18.55	23.10	28.50	34.90	42.40				
20.0	11.55	14.75	18.55	23.10	28.40	34.80	42.20	51.00			
25.0	11.55	14.75	18.50	23.00	28.30	34.60	42.00	50.70	60.80		
30.0	11.55	14.75	18.50	22.90	28.20	34.40	41.80	50.40	60.40	72.20	77.50
35.0	11.55	14.75	18.45	22.80	28.00	34.20	41.40	50.00	60.00	71.80	77.10
40.0	11.55	14.70	18.40	22.70	27.80	33.90	41.10	49.50	59.50	71.40	76.70
45.0	11.55	14.65	18.25	22.50	27.60	33.50	40.60	49.00	59.00	70.90	76.20
50.0	11.45	14.55	18.10	22.30	27.20	33.10	40.10	48.40	58.40	70.30	75.70
55.0	11.35	14.40	17.90	22.00	26.80	32.60	39.50	47.80	57.80	69.90	75.40
60.0						32.00	38.90	47.20	57.30	69.60	75.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.03
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	27
Gross Weight, kg	30
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.5
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 Power with Sound Shell (LT), dBA	65
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	4.10
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	6
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
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