



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return — 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
10.0	10.80	13.20	16.10	19.45					
15.0	10.45	12.80	15.55	18.80	22.50				
20.0	10.05	12.30	14.95	18.00	21.60	25.60			
25.0	9.57	11.75	14.25	17.20	20.60	24.40	28.80		
30.0	9.07	11.10	13.50	16.30	19.45	23.10	27.20	29.00	31.90
35.0	8.52	10.45	12.70	15.30	18.25	21.70	25.60	27.30	30.00
40.0	7.94	9.74	11.85	14.25	17.00	20.20	23.80	25.40	27.90
45.0	7.32	8.99	10.90	13.10	15.65	18.60	22.00	23.40	25.80
50.0		8.19	9.93	11.95	14.25	16.95	20.00	21.40	23.50
55.0			8.91	10.70	12.80	15.20	18.00	19.20	21.20
60.0				9.44	11.30	13.40	15.90	17.00	18.75

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.76	2.88	2.99	3.08					
15.0	3.03	3.17	3.29	3.40	3.49				
20.0	3.31	3.47	3.61	3.74	3.84	3.93			
25.0	3.62	3.80	3.96	4.10	4.22	4.32	4.40		
30.0	3.95	4.15	4.33	4.49	4.63	4.74	4.83	4.86	4.90
35.0	4.30	4.53	4.73	4.91	5.07	5.20	5.30	5.34	5.39
40.0	4.69	4.94	5.17	5.37	5.54	5.69	5.81	5.85	5.91
45.0	5.11	5.39	5.64	5.86	6.06	6.22	6.36	6.41	6.47
50.0		5.88	6.15	6.40	6.61	6.80	6.96	7.01	7.09
55.0			6.71	6.98	7.22	7.42	7.60	7.66	7.75
60.0				7.61	7.87	8.10	8.30	8.37	8.46

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
10.0	7.04	7.12	7.21	7.28					
15.0	7.24	7.35	7.45	7.54	7.62				
20.0	7.47	7.61	7.73	7.84	7.94	8.02			
25.0	7.73	7.90	8.05	8.18	8.29	8.39	8.47		
30.0	8.03	8.23	8.40	8.56	8.70	8.82	8.91	8.94	8.98
35.0	8.37	8.60	8.81	8.99	9.16	9.30	9.41	9.45	9.50
40.0	8.76	9.03	9.27	9.48	9.67	9.84	9.98	10.02	10.09
45.0	9.21	9.51	9.79	10.04	10.26	10.45	10.61	10.67	10.75
50.0		10.06	10.37	10.66	10.91	11.14	11.33	11.40	11.49
55.0			11.03	11.35	11.65	11.90	12.13	12.21	12.31
60.0				12.13	12.46	12.76	13.01	13.10	13.23

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
10.0	61.10	75.40	92.30	112.50					
15.0	61.70	76.10	93.10	113.00	137.00				
20.0	62.00	76.50	93.60	113.50	137.50	165.00			
25.0	62.10	76.60	93.70	114.00	137.50	165.00	197.50		
30.0	62.00	76.50	93.60	113.50	137.50	165.00	197.00	212.00	235.00
35.0	61.60	76.00	93.10	113.00	136.50	164.00	196.50	211.00	235.00
40.0	61.00	75.30	92.20	112.00	135.50	163.00	195.50	210.00	234.00
45.0	60.10	74.40	91.00	110.50	134.00	161.50	193.50	208.00	232.00
50.0		73.20	89.60	109.00	132.00	159.00	191.50	206.00	231.00
55.0			87.90	107.00	129.50	157.00	189.50	204.00	229.00
60.0				105.00	127.50	154.50	187.50	203.00	228.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	21.4
Length/Width, mm	258/263
Height, mm	442
Net Weight, kg	43.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	1.89
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 (19)
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
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	5.70
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	15.9
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	External thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
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