



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- 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
4.0	9.82	12.10	14.90	18.20					
5.0	9.77	12.05	14.85	18.10					
10.0	9.36	11.60	14.30	17.45	21.20				
15.0	8.95	11.15	13.75	16.80	20.40				
20.0	8.56	10.65	13.15	16.15	19.60	23.70			
25.0	8.17	10.20	12.60	15.45	18.80	22.70	27.20	29.10	
30.0	7.78	9.72	12.00	14.75	17.90	21.60	25.90	27.80	30.80
35.0	7.40	9.25	11.40	14.00	17.00	20.50	24.60	26.40	29.30
40.0		8.76	10.80	13.25	16.10	19.40	23.30	25.00	27.70
45.0			10.20	12.45	15.10	18.25	21.90	23.50	26.10
50.0			9.54	11.65	14.10	17.00	20.40	21.90	24.40
55.0				10.80	13.05	15.75	18.90	20.30	22.60
60.0					12.00	14.45	17.35	18.65	20.80

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	2.17	2.20	2.18	2.12					
5.0	2.20	2.24	2.22	2.17					
10.0	2.49	2.57	2.60	2.59	2.56				
15.0	2.76	2.89	2.96	2.99	2.98				
20.0	3.01	3.19	3.30	3.37	3.39	3.40			
25.0	3.27	3.49	3.64	3.74	3.80	3.84	3.86	3.87	
30.0	3.54	3.81	4.00	4.13	4.22	4.28	4.32	4.34	4.36
35.0	3.84	4.15	4.37	4.54	4.66	4.74	4.80	4.82	4.85
40.0		4.52	4.79	4.98	5.13	5.23	5.31	5.33	5.37
45.0			5.25	5.47	5.64	5.76	5.85	5.89	5.93
50.0			5.76	6.02	6.21	6.35	6.46	6.49	6.54
55.0				6.63	6.84	7.00	7.12	7.16	7.22
60.0					7.56	7.74	7.87	7.91	7.97

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
4.0	4.46	4.48	4.41	4.28					
5.0	4.54	4.57	4.51	4.38					
10.0	5.20	5.30	5.31	5.24	5.14				
15.0	5.74	5.92	5.99	5.98	5.92				
20.0	6.19	6.45	6.58	6.62	6.61	6.58			
25.0	6.60	6.92	7.11	7.20	7.24	7.25	7.26	7.28	
30.0	6.97	7.36	7.61	7.76	7.84	7.88	7.92	7.94	7.99
35.0	7.35	7.80	8.11	8.31	8.43	8.50	8.57	8.60	8.66
40.0		8.28	8.64	8.89	9.05	9.15	9.24	9.28	9.35
45.0			9.23	9.52	9.72	9.86	9.97	10.01	10.08
50.0			9.91	10.24	10.48	10.64	10.77	10.82	10.90
55.0				11.08	11.35	11.54	11.69	11.74	11.83
60.0					12.37	12.58	12.75	12.81	12.89

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
4.0	44.00	54.40	67.20	82.60					
5.0	43.90	54.40	67.20	82.50					
10.0	43.50	54.10	66.90	82.30	100.50				
15.0	43.10	53.70	66.60	82.10	100.50				
20.0	42.70	53.40	66.30	81.80	100.00	122.00			
25.0	42.40	53.10	66.00	81.40	99.70	121.50	147.00	158.50	
30.0	42.10	52.80	65.60	81.00	99.20	121.00	146.50	158.00	177.00
35.0	41.80	52.50	65.20	80.50	98.60	120.00	146.00	157.50	176.00
40.0		52.20	64.80	79.90	97.90	119.50	145.00	156.50	175.00
45.0			64.30	79.20	97.00	118.50	143.50	155.00	174.00
50.0			63.80	78.40	96.00	117.00	142.50	154.00	173.00
55.0				77.50	94.80	115.50	141.00	152.50	171.50
60.0					93.50	114.00	139.50	151.00	170.00

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	68
Sound Power (MT), dBA	79
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	1397
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