



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									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	13.70	17.25	21.50	26.50						
15.0	13.05	16.55	20.70	25.60						
20.0	12.45	15.85	19.90	24.70	30.10					
25.0	11.80	15.15	19.10	23.70	29.00	35.10	37.80			
30.0	11.10	14.35	18.20	22.60	27.80	33.70	36.30	40.40	44.10	
35.0	10.35	13.55	17.25	21.60	26.50	32.20	34.60	38.60	42.20	
40.0	9.56	12.65	16.25	20.40	25.10	30.60	32.90	36.80	40.20	
45.0		11.70	15.15	19.15	23.70	28.90	31.10	34.80	38.00	
50.0			14.00	17.80	22.20	27.10	29.30	32.70	35.80	
55.0				16.40	20.50	25.20	27.30	30.50	33.40	
60.0				14.90	18.80	23.20	25.10	28.20	31.00	
65.0					16.95	21.10	22.90	25.80	28.40	
70.0						18.85	20.50	23.20	25.60	
75.0						16.50	18.05	20.50	22.70	

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	3.51	3.58	3.67	3.78						
15.0	3.90	3.97	4.06	4.17						
20.0	4.32	4.39	4.47	4.58	4.71					
25.0	4.79	4.85	4.93	5.03	5.15	5.31	5.38			
30.0	5.31	5.37	5.44	5.53	5.65	5.79	5.86	5.97	6.08	
35.0	5.90	5.95	6.01	6.10	6.20	6.34	6.40	6.51	6.60	
40.0	6.58	6.62	6.67	6.74	6.84	6.96	7.02	7.12	7.21	
45.0		7.39	7.43	7.49	7.57	7.67	7.73	7.81	7.90	
50.0			8.29	8.33	8.40	8.49	8.54	8.61	8.69	
55.0				9.30	9.35	9.43	9.46	9.53	9.60	
60.0				10.40	10.45	10.50	10.50	10.60	10.65	
65.0					11.65	11.70	11.75	11.75	11.80	
70.0						13.10	13.10	13.10	13.15	
75.0						14.60	14.60	14.65	14.65	

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	14.63	14.43	14.37	14.43						
15.0	14.83	14.63	14.58	14.63						
20.0	15.05	14.87	14.82	14.88	15.01					
25.0	15.33	15.16	15.12	15.17	15.30	15.47	15.53			
30.0	15.69	15.52	15.49	15.55	15.67	15.83	15.90	15.99	16.06	
35.0	16.14	15.98	15.95	16.01	16.14	16.29	16.35	16.44	16.51	
40.0	16.70	16.55	16.53	16.59	16.72	16.87	16.93	17.01	17.07	
45.0		17.26	17.24	17.31	17.43	17.58	17.64	17.72	17.77	
50.0			18.11	18.18	18.30	18.45	18.50	18.58	18.63	
55.0				19.22	19.35	19.49	19.54	19.61	19.66	
60.0				20.46	20.59	20.73	20.78	20.84	20.88	
65.0					22.04	22.18	22.23	22.29	22.33	
70.0						23.87	23.91	23.97	24.00	
75.0						25.81	25.86	25.91	25.94	

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	66.80	84.50	105.50	130.50						
15.0	66.10	84.10	105.50	131.00						
20.0	65.20	83.60	105.50	131.00	161.00					
25.0	64.20	82.80	105.00	130.50	161.00	196.50	212.00			
30.0	62.90	81.80	104.00	130.50	161.00	196.50	212.00	238.00	261.00	
35.0	61.30	80.50	103.00	129.50	160.00	196.00	212.00	238.00	261.00	
40.0	59.30	78.70	101.50	128.00	159.00	195.00	211.00	237.00	260.00	
45.0		76.50	99.50	126.50	157.50	194.00	210.00	236.00	259.00	
50.0			96.90	124.00	155.50	191.50	208.00	234.00	257.00	
55.0				120.50	152.50	189.00	205.00	231.00	255.00	
60.0				116.50	148.50	185.00	201.00	228.00	252.00	
65.0					143.00	180.00	196.50	223.00	247.00	
70.0						174.00	190.50	217.00	241.00	
75.0						165.50	182.50	209.00	234.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	43.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	66.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (0)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	14.0
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	33.5
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	90 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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04