



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	11.85	14.20	17.00	20.30					
15.0	11.05	13.30	16.05	19.25	23.00				
20.0	10.30	12.55	15.15	18.25	21.80	25.90			
25.0	9.66	11.80	14.30	17.25	20.70	24.60	29.00		
30.0	9.05	11.10	13.45	16.25	19.45	23.20	27.40	29.20	32.10
35.0	8.46	10.40	12.65	15.25	18.25	21.70	25.60	27.40	30.10
40.0	7.88	9.69	11.80	14.20	17.00	20.20	23.90	25.50	28.00
45.0		8.98	10.90	13.15	15.70	18.65	22.00	23.50	25.80
50.0		8.22	9.98	12.00	14.35	17.00	20.10	21.40	23.50
55.0			8.98	10.80	12.85	15.25	17.95	19.20	21.10
60.0				9.47	11.25	13.35	15.75	16.80	18.50

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.95	3.06	3.16	3.26					
15.0	3.14	3.27	3.40	3.51	3.60				
20.0	3.38	3.53	3.67	3.80	3.91	3.99			
25.0	3.65	3.82	3.98	4.13	4.25	4.36	4.43		
30.0	3.95	4.15	4.33	4.50	4.64	4.76	4.85	4.88	4.90
35.0	4.30	4.52	4.72	4.91	5.07	5.21	5.31	5.34	5.38
40.0	4.69	4.93	5.16	5.36	5.54	5.70	5.82	5.86	5.90
45.0		5.38	5.63	5.86	6.06	6.23	6.37	6.41	6.47
50.0		5.88	6.15	6.40	6.62	6.81	6.96	7.01	7.08
55.0			6.71	6.98	7.22	7.43	7.60	7.66	7.74
60.0				7.61	7.87	8.10	8.29	8.36	8.44

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	7.33	7.38	7.44	7.51					
15.0	7.44	7.52	7.60	7.68	7.77				
20.0	7.60	7.71	7.81	7.92	8.02	8.12			
25.0	7.81	7.96	8.09	8.22	8.33	8.45	8.55		
30.0	8.08	8.26	8.43	8.58	8.72	8.85	8.96	9.00	9.07
35.0	8.40	8.63	8.83	9.02	9.18	9.32	9.45	9.49	9.56
40.0	8.79	9.06	9.30	9.52	9.70	9.87	10.01	10.06	10.13
45.0		9.55	9.84	10.09	10.30	10.49	10.65	10.71	10.78
50.0		10.11	10.44	10.72	10.98	11.19	11.37	11.43	11.52
55.0			11.10	11.43	11.72	11.97	12.17	12.24	12.34
60.0				12.22	12.54	12.82	13.05	13.13	13.24

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	67.20	80.80	97.50	117.50					
15.0	65.30	79.20	96.00	116.00	140.00				
20.0	63.80	78.00	94.90	115.00	139.00	167.00			
25.0	62.70	77.00	94.00	114.50	138.00	166.00	199.00		
30.0	61.80	76.20	93.30	113.50	137.50	165.50	198.50	213.00	237.00
35.0	61.10	75.50	92.60	113.00	136.50	164.50	197.00	212.00	236.00
40.0	60.50	75.00	91.90	112.00	135.50	163.50	196.00	211.00	235.00
45.0		74.30	91.10	111.00	134.00	161.50	194.50	209.00	233.00
50.0		73.50	90.00	109.50	132.50	159.50	192.00	207.00	231.00
55.0			88.60	107.50	130.00	157.00	189.00	204.00	228.00
60.0				105.00	127.50	154.00	186.00	201.00	225.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	21.4
Length/Width, mm	246/257
Height, mm	481
Net Weight, kg	43.1
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. Low Side Internal Free Volume, l	6.3
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	6.80
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	Internal 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**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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