



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	1.86	2.39	2.99	3.66	4.40	5.21					
15.0	1.77	2.28	2.87	3.53	4.27	5.07	5.95				
20.0	1.68	2.18	2.75	3.40	4.12	4.92	5.79	6.73			
25.0	1.60	2.08	2.63	3.25	3.96	4.74	5.59	6.52	7.52		
30.0	1.53	1.98	2.50	3.10	3.77	4.53	5.36	6.27	7.25	8.30	8.74
35.0	1.46	1.86	2.35	2.92	3.57	4.29	5.10	5.98	6.93	7.96	8.40
40.0	1.39	1.76	2.20	2.73	3.34	4.03	4.80	5.65	6.57	7.57	7.99
45.0	1.32	1.64	2.04	2.52	3.09	3.73	4.46	5.27	6.16	7.12	7.53
50.0	1.25	1.51	1.86	2.29	2.81	3.40	4.09	4.85	5.69	6.61	7.01
55.0	1.16	1.37	1.66	2.03	2.49	3.04	3.67	4.38	5.17	6.05	6.42
60.0						2.63	3.20	3.86	4.59	5.41	5.77

50 Hz

ZF08K4E-TFD

R404A Dew Point

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	0.96	0.99	1.04	1.11	1.20	1.30					
15.0	1.03	1.06	1.12	1.19	1.28	1.38	1.50				
20.0	1.12	1.15	1.20	1.28	1.36	1.46	1.58	1.70			
25.0	1.21	1.25	1.30	1.38	1.46	1.56	1.68	1.80	1.92		
30.0	1.32	1.36	1.42	1.48	1.58	1.68	1.78	1.90	2.03	2.16	2.21
35.0	1.44	1.48	1.54	1.62	1.70	1.80	1.92	2.03	2.15	2.28	2.33
40.0	1.59	1.63	1.70	1.77	1.86	1.96	2.06	2.18	2.30	2.42	2.47
45.0	1.76	1.80	1.87	1.94	2.04	2.14	2.24	2.36	2.47	2.59	2.64
50.0	1.96	2.01	2.08	2.16	2.25	2.34	2.45	2.56	2.68	2.79	2.84
55.0	2.20	2.25	2.32	2.40	2.49	2.59	2.69	2.80	2.91	3.03	3.07
60.0						2.87	2.97	3.08	3.19	3.30	3.34

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	2.65	2.66	2.70	2.76	2.84	2.94					
15.0	2.70	2.72	2.76	2.83	2.91	3.02	3.13				
20.0	2.75	2.77	2.82	2.90	2.99	3.10	3.22	3.35			
25.0	2.82	2.85	2.90	2.98	3.08	3.19	3.32	3.45	3.59		
30.0	2.91	2.94	3.00	3.09	3.19	3.31	3.44	3.57	3.72	3.86	3.92
35.0	3.02	3.06	3.13	3.22	3.33	3.45	3.58	3.72	3.87	4.02	4.08
40.0	3.17	3.22	3.29	3.38	3.50	3.62	3.76	3.91	4.06	4.21	4.27
45.0	3.36	3.41	3.49	3.59	3.71	3.84	3.98	4.13	4.28	4.44	4.50
50.0	3.60	3.66	3.74	3.84	3.96	4.10	4.24	4.40	4.55	4.71	4.77
55.0	3.89	3.95	4.04	4.15	4.27	4.41	4.56	4.72	4.88	5.04	5.10
60.0						4.78	4.94	5.10	5.26	5.42	5.49

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	10.45	13.45	16.90	20.70	25.10	29.90					
15.0	10.35	13.40	16.90	20.90	25.40	30.40	35.90				
20.0	10.30	13.35	16.95	21.00	25.60	30.80	36.50	42.80			
25.0	10.30	13.35	16.95	21.10	25.80	31.10	37.00	43.60	50.90		
30.0	10.30	13.35	16.95	21.20	25.90	31.40	37.40	44.20	51.80	60.20	63.80
35.0	10.40	13.35	16.90	21.10	26.00	31.50	37.70	44.70	52.50	61.20	65.00
40.0	10.50	13.35	16.80	21.00	25.80	31.40	37.80	45.00	53.00	62.10	66.10
45.0	10.65	13.30	16.65	20.70	25.50	31.20	37.60	45.00	53.40	62.80	67.00
50.0	10.85	13.20	16.35	20.30	25.10	30.70	37.30	44.80	53.50	63.30	67.70
55.0	11.10	13.05	15.95	19.65	24.30	30.00	36.60	44.30	53.30	63.60	68.20
60.0						28.90	35.60	43.60	52.90	63.90	68.80

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	7.31
Length/Width, mm	243/245
Height, mm	391
Net Weight, kg	27.2
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.48
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 (LT), dBA	59
Sound Power (LT), dBA	70
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.30
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
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	32
Winding Resistance, ohm	5.94
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**

<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