



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ Maximum Evaporating Temperature

Suction Return Temperature 20.0°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
4.0	5.91	7.44	9.30	11.45	13.90	16.65	19.60	
5.0	5.88	7.41	9.26	11.40	13.85	16.55	19.50	
10.0	5.63	7.12	8.92	11.00	13.40	16.00	18.90	
15.0	5.38	6.81	8.55	10.60	12.90	15.40	18.20	
20.0	5.12	6.49	8.16	10.10	12.30	14.75	17.45	20.30
25.0	4.85	6.15	7.75	9.61	11.70	14.05	16.60	19.35
30.0	4.59	5.81	7.32	9.08	11.10	13.30	15.75	18.35
35.0	4.33	5.47	6.87	8.53	10.40	12.55	14.85	17.30
40.0	4.09	5.12	6.42	7.96	9.73	11.70	13.85	16.20
45.0	3.85	4.78	5.96	7.38	9.01	10.85	12.85	15.05
50.0	3.63	4.44	5.50	6.79	8.28	9.96	11.80	13.80
55.0	3.44	4.12	5.04	6.18	7.52	9.05	10.75	12.55

50 Hz

ZF25KQE-TFD

R404A Dew Point

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
4.0	2.09	2.23	2.35	2.48	2.66	2.92	3.29	
5.0	2.11	2.25	2.37	2.50	2.68	2.94	3.31	
10.0	2.28	2.44	2.57	2.72	2.90	3.16	3.52	
15.0	2.46	2.64	2.79	2.95	3.14	3.40	3.76	
20.0	2.64	2.85	3.03	3.20	3.41	3.67	4.03	4.52
25.0	2.83	3.08	3.28	3.47	3.69	3.97	4.34	4.82
30.0	3.03	3.31	3.54	3.76	4.00	4.30	4.67	5.16
35.0	3.23	3.55	3.82	4.07	4.34	4.65	5.04	5.54
40.0	3.43	3.80	4.11	4.39	4.69	5.03	5.44	5.95
45.0	3.64	4.05	4.41	4.73	5.06	5.43	5.86	6.39
50.0	3.84	4.31	4.72	5.09	5.46	5.85	6.32	6.87
55.0	4.05	4.58	5.04	5.46	5.87	6.30	6.80	7.38

Cond °C	Current at 380 V, A							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
4.0	5.63	5.74	5.84	5.96	6.12	6.36	6.70	
5.0	5.65	5.76	5.86	5.98	6.15	6.38	6.72	
10.0	5.79	5.93	6.05	6.19	6.37	6.61	6.95	
15.0	5.95	6.12	6.27	6.42	6.62	6.88	7.23	
20.0	6.11	6.32	6.50	6.69	6.91	7.18	7.55	8.04
25.0	6.29	6.54	6.76	6.98	7.23	7.53	7.92	8.42
30.0	6.49	6.79	7.05	7.31	7.59	7.92	8.34	8.86
35.0	6.70	7.05	7.36	7.66	7.98	8.35	8.80	9.35
40.0	6.92	7.33	7.69	8.05	8.41	8.82	9.31	9.89
45.0	7.16	7.63	8.06	8.46	8.88	9.34	9.87	10.49
50.0	7.41	7.95	8.44	8.91	9.39	9.90	10.48	11.14
55.0	7.68	8.30	8.86	9.40	9.93	10.50	11.13	11.85

Cond °C	Suction Mass Flow, g/s							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
4.0	31.50	39.80	49.90	61.70	75.30	90.50	107.50	
5.0	31.50	39.80	49.90	61.80	75.30	90.60	107.50	
10.0	31.30	39.70	50.00	62.00	75.70	91.10	108.00	
15.0	31.20	39.60	49.90	62.00	75.90	91.50	108.50	
20.0	31.00	39.40	49.80	62.00	75.90	91.60	109.00	128.00
25.0	30.80	39.20	49.60	61.80	75.80	91.50	109.00	128.00
30.0	30.70	39.00	49.20	61.40	75.40	91.20	109.00	128.00
35.0	30.60	38.70	48.90	61.00	75.00	90.80	108.50	128.00
40.0	30.60	38.50	48.50	60.50	74.40	90.20	108.00	127.50
45.0	30.80	38.40	48.10	59.90	73.70	89.40	107.00	126.50
50.0	31.30	38.40	47.80	59.40	73.00	88.60	106.00	126.00
55.0	32.20	38.80	47.80	59.00	72.40	87.90	105.50	125.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	21.4
Length/Width, mm	246/257
Height, mm	442
Net Weight, kg	39
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Rotalock Injection, inch	11/16
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.9
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	68
Sound Power (LT), dBA	79
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
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	13.7
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72/1.72/1.72 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Enclosure Class	IP21
Mounting Grommets	Standard
Oil Charge	

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat
Liquid Injection	DTC Valve
Mounting Grommets	Rubber Grommet For Parallel
Adapter Kit	Operation
Oil Control System	Rotalock to Stub
Rotalock valves	OMB 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	380		Y	1.00