



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	7.84	9.83	12.25	15.10	18.50	22.50	27.00	
5.0	7.79	9.78	12.20	15.05	18.40	22.30	26.90	
10.0	7.42	9.36	11.70	14.45	17.70	21.50	25.80	
15.0	7.06	8.96	11.20	13.85	16.95	20.50	24.70	
20.0	6.72	8.55	10.70	13.25	16.20	19.60	23.60	28.10
25.0	6.37	8.14	10.20	12.60	15.40	18.65	22.40	26.70
30.0	6.03	7.72	9.67	11.95	14.55	17.60	21.20	25.20
35.0	5.67	7.28	9.12	11.25	13.70	16.55	19.85	23.70
40.0	5.29	6.82	8.54	10.50	12.80	15.45	18.50	22.10
45.0	4.90	6.32	7.92	9.73	11.85	14.25	17.10	20.40
50.0	4.47	5.79	7.25	8.90	10.80	13.00	15.60	18.55
55.0	4.00	5.21	6.53	8.01	9.71	11.70	14.00	16.70

50 Hz

ZF34KQE-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	2.87	3.01	3.19	3.43	3.72	4.06	4.45	
5.0	2.89	3.03	3.22	3.46	3.75	4.08	4.47	
10.0	3.11	3.26	3.46	3.69	3.97	4.30	4.67	
15.0	3.35	3.52	3.72	3.96	4.23	4.55	4.90	
20.0	3.60	3.79	4.01	4.25	4.53	4.83	5.17	5.55
25.0	3.88	4.09	4.32	4.58	4.85	5.16	5.49	5.85
30.0	4.18	4.41	4.67	4.93	5.22	5.53	5.85	6.20
35.0	4.50	4.77	5.04	5.33	5.63	5.94	6.27	6.61
40.0	4.85	5.16	5.46	5.77	6.08	6.40	6.73	7.07
45.0	5.24	5.58	5.91	6.25	6.58	6.91	7.25	7.58
50.0	5.66	6.04	6.41	6.77	7.13	7.48	7.82	8.16
55.0	6.11	6.54	6.95	7.35	7.73	8.10	8.45	8.80

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	8.82	8.93	9.12	9.40	9.75	10.18	10.70	
5.0	8.85	8.96	9.15	9.43	9.78	10.21	10.72	
10.0	9.05	9.20	9.41	9.70	10.05	10.48	10.97	
15.0	9.29	9.47	9.71	10.02	10.38	10.80	11.28	
20.0	9.57	9.79	10.06	10.38	10.76	11.18	11.66	12.19
25.0	9.89	10.15	10.46	10.81	11.20	11.63	12.11	12.62
30.0	10.25	10.56	10.91	11.29	11.70	12.15	12.63	13.14
35.0	10.66	11.03	11.43	11.84	12.28	12.74	13.23	13.74
40.0	11.13	11.56	12.01	12.47	12.94	13.42	13.92	14.43
45.0	11.67	12.16	12.66	13.16	13.67	14.18	14.70	15.21
50.0	12.27	12.83	13.39	13.94	14.49	15.03	15.57	16.10
55.0	12.94	13.58	14.20	14.81	15.40	15.98	16.55	17.10

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	41.80	52.50	65.60	81.30	100.00	122.00	148.00	
5.0	41.70	52.50	65.60	81.30	100.00	122.00	148.00	
10.0	41.30	52.30	65.50	81.20	99.90	122.00	148.00	
15.0	41.00	52.10	65.40	81.20	99.80	122.00	147.50	
20.0	40.70	52.00	65.30	81.10	99.70	121.50	147.50	177.50
25.0	40.50	51.90	65.20	80.90	99.50	121.50	147.00	177.00
30.0	40.20	51.70	65.10	80.70	99.10	120.50	146.00	176.00
35.0	40.00	51.50	64.90	80.40	98.60	120.00	145.00	175.00
40.0	39.60	51.20	64.50	79.80	97.80	119.00	144.00	173.50
45.0	39.10	50.80	63.90	79.00	96.70	117.50	142.50	171.50
50.0	38.50	50.10	63.00	77.90	95.20	116.00	140.00	169.00
55.0	37.50	49.10	61.80	76.40	93.40	113.50	137.50	166.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	29.1
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	63
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Rotalock Injection, inch	1
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.4
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	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	3922
Refrigerant's classification	A1

50 Hz

ZF34KQE-TFD

R404A Dew Point

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

Maximum Operating Current, A	25
Locked Rotor Current, A	100
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Enclosure Class	IP 54
Mounting Grommets	Standard
Oil Charge	

### **ACCESSORIES OPTIONAL**

Crankcase Heater	90 W External
Discharge Temperature Protection	Discharge line thermostat
Liquid Injection	DTC Valve
Mounting Grommets	Hard Mounts for Paralleling
Adapter Kit	Rotalock to Stub
Oil Control System	OMB
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	380		Y	1.00