



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°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	10.0
10.0	4.35	5.33	6.47				
15.0	4.18	5.11	6.20	7.46			
20.0	3.99	4.88	5.91	7.11	8.48		
25.0	3.79	4.63	5.61	6.74	8.03	9.50	
30.0	3.57	4.36	5.28	6.34	7.56	8.95	10.50
35.0	3.34	4.08	4.94	5.93	7.07	8.37	9.84
40.0	3.09	3.79	4.58	5.50	6.56	7.77	9.14
45.0	2.84	3.47	4.21	5.05	6.03	7.14	8.41
50.0	2.56	3.14	3.81	4.58	5.47	6.49	7.66
55.0	2.27	2.80	3.40	4.09	4.90	5.82	6.88
60.0		2.43	2.97	3.58	4.30	5.12	6.08

50 Hz

ZB19KQE-TFD

R404A Dew Point

Cond °C	Power, kW						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0
10.0	0.93	0.93	0.93				
15.0	1.04	1.04	1.04	1.04			
20.0	1.17	1.17	1.17	1.17	1.17		
25.0	1.32	1.32	1.32	1.31	1.31	1.30	
30.0	1.48	1.48	1.48	1.47	1.46	1.46	1.44
35.0	1.66	1.66	1.66	1.65	1.64	1.63	1.62
40.0	1.86	1.86	1.86	1.86	1.84	1.83	1.81
45.0	2.10	2.10	2.09	2.08	2.07	2.05	2.03
50.0	2.36	2.36	2.36	2.34	2.33	2.31	2.28
55.0	2.66	2.66	2.65	2.64	2.62	2.60	2.57
60.0		2.99	2.98	2.96	2.94	2.92	2.88

Cond °C	Current at 380 V, A						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0
10.0	3.02	3.01	2.99				
15.0	3.13	3.14	3.12	3.09			
20.0	3.27	3.27	3.27	3.25	3.21		
25.0	3.42	3.43	3.43	3.42	3.39	3.33	
30.0	3.60	3.62	3.62	3.62	3.59	3.54	3.47
35.0	3.82	3.84	3.85	3.84	3.82	3.78	3.72
40.0	4.09	4.10	4.11	4.11	4.09	4.05	3.99
45.0	4.41	4.42	4.42	4.42	4.40	4.37	4.31
50.0	4.79	4.79	4.79	4.78	4.77	4.73	4.68
55.0	5.24	5.23	5.22	5.21	5.19	5.15	5.10
60.0		5.74	5.73	5.71	5.68	5.64	5.58

Cond °C	Suction Mass Flow, g/s						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0
10.0	24.60	30.30	37.00				
15.0	24.60	30.30	37.00	44.90			
20.0	24.60	30.20	36.90	44.80	54.00		
25.0	24.50	30.10	36.80	44.60	53.80	64.50	
30.0	24.30	29.90	36.50	44.30	53.40	64.10	76.60
35.0	24.00	29.60	36.10	43.80	52.90	63.60	76.10
40.0	23.70	29.20	35.60	43.30	52.30	62.90	75.40
45.0	23.20	28.60	35.00	42.60	51.50	62.10	74.70
50.0	22.60	28.00	34.30	41.80	50.60	61.20	73.80
55.0	21.90	27.20	33.40	40.80	49.60	60.20	73.00
60.0		26.20	32.40	39.80	48.60	59.30	72.30

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	6.83
Length/Width, mm	241/241
Height, mm	382
Net Weight, kg	27.2
Gross Weight, kg	29
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.3
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 (8.5)
Sound Pressure @ 1m (MT), dBA	55
Sound Power (MT), dBA	66
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 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	6.5
Locked Rotor Current, A	32
Winding Resistance, ohm	5.94
Default Enclosure Class	IP 21 (IEC 34)

50 Hz

ZB19KQE-TFD

R404A Dew Point

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection  
Mounting Grommets

Internal Thermodisk  
Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater  
Rotalock valves

70 W External  
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
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
TF7	380 V / 3~ / 60 Hz	380		Y	1.26