



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	5.22	6.40	7.77				
15.0	5.01	6.13	7.44	8.95			
20.0	4.79	5.85	7.10	8.53	10.20		
25.0	4.55	5.56	6.73	8.09	9.64	11.40	
30.0	4.29	5.24	6.34	7.62	9.08	10.75	12.65
35.0	4.01	4.90	5.93	7.13	8.49	10.05	11.80
40.0	3.72	4.55	5.50	6.61	7.88	9.33	10.95
45.0	3.41	4.17	5.05	6.07	7.24	8.58	10.10
50.0	3.08	3.77	4.58	5.50	6.57	7.80	9.20
55.0	2.73	3.36	4.08	4.92	5.88	6.99	8.26
60.0		2.92	3.56	4.30	5.16	6.15	7.30

50 Hz

ZB21KQE-TFD

R404A Dew Point

Cond °C	Power, kW						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0
10.0	1.11	1.12	1.12				
15.0	1.25	1.25	1.25	1.26			
20.0	1.40	1.40	1.40	1.40	1.40		
25.0	1.58	1.58	1.58	1.57	1.56	1.56	
30.0	1.76	1.77	1.76	1.76	1.76	1.74	1.74
35.0	1.98	1.98	1.98	1.98	1.96	1.96	1.94
40.0	2.23	2.23	2.23	2.22	2.21	2.19	2.17
45.0	2.52	2.51	2.51	2.50	2.48	2.46	2.44
50.0	2.83	2.83	2.82	2.81	2.79	2.77	2.74
55.0	3.18	3.18	3.17	3.16	3.14	3.11	3.08
60.0		3.58	3.57	3.55	3.53	3.49	3.46

Cond °C	Current at 380 V, A						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0
10.0	3.08	3.08	3.09				
15.0	3.20	3.20	3.20	3.21			
20.0	3.34	3.34	3.34	3.34	3.34		
25.0	3.50	3.50	3.51	3.50	3.50	3.50	
30.0	3.70	3.70	3.70	3.70	3.69	3.68	3.68
35.0	3.93	3.94	3.93	3.93	3.92	3.91	3.89
40.0	4.21	4.21	4.21	4.20	4.19	4.17	4.15
45.0	4.54	4.54	4.54	4.53	4.51	4.49	4.46
50.0	4.93	4.93	4.93	4.92	4.89	4.87	4.83
55.0	5.38	5.38	5.38	5.36	5.34	5.30	5.26
60.0		5.91	5.90	5.88	5.85	5.81	5.76

Cond °C	Suction Mass Flow, g/s						
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0
10.0	29.50	36.40	44.50				
15.0	29.60	36.40	44.50	53.90			
20.0	29.50	36.30	44.30	53.80	64.90		
25.0	29.40	36.20	44.10	53.50	64.50	77.40	
30.0	29.20	35.90	43.80	53.20	64.10	76.90	92.00
35.0	28.80	35.50	43.40	52.60	63.50	76.30	91.30
40.0	28.40	35.00	42.80	52.00	62.80	75.50	90.60
45.0	27.80	34.40	42.10	51.10	61.90	74.60	89.70
50.0	27.10	33.60	41.20	50.10	60.80	73.50	88.70
55.0	26.30	32.60	40.10	49.00	59.60	72.30	87.60
60.0		31.50	38.90	47.70	58.40	71.20	86.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.61
Length/Width, mm	241/241
Height, mm	405
Net Weight, kg	27.2
Gross Weight, kg	30
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	58
Sound Power (MT), dBA	69
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	7.15
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

50 Hz

ZB21KQE-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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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

