



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	4.22	5.22	6.40						
15.0	4.06	5.01	6.14	7.46					
20.0	3.88	4.79	5.86	7.11	8.55				
25.0	3.68	4.54	5.56	6.75	8.11	9.66			
30.0	3.46	4.28	5.24	6.35	7.64	9.10	10.75	11.50	12.65
35.0	3.24	4.00	4.90	5.94	7.14	8.51	10.05	10.75	11.80
40.0	3.00	3.71	4.54	5.51	6.62	7.89	9.33	9.96	10.95
45.0	2.74	3.40	4.16	5.05	6.07	7.24	8.57	9.15	10.10
50.0		3.08	3.77	4.57	5.50	6.57	7.79	8.32	9.17
55.0			3.36	4.08	4.91	5.87	6.97	7.45	8.23
60.0				3.57	4.30	5.15	6.13	6.56	7.25

50 Hz

ZB21KCE-TFD

R404A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	1.10	1.11	1.11						
15.0	1.25	1.25	1.25	1.25					
20.0	1.40	1.40	1.40	1.40	1.40				
25.0	1.57	1.58	1.58	1.57	1.56	1.56			
30.0	1.77	1.77	1.77	1.76	1.76	1.76	1.74	1.74	1.74
35.0	1.99	1.99	1.99	1.98	1.98	1.96	1.96	1.96	1.95
40.0	2.24	2.24	2.24	2.23	2.22	2.21	2.19	2.19	2.18
45.0	2.52	2.52	2.52	2.51	2.50	2.48	2.46	2.46	2.44
50.0		2.83	2.83	2.82	2.81	2.79	2.77	2.76	2.74
55.0			3.18	3.17	3.16	3.13	3.11	3.10	3.08
60.0				3.56	3.54	3.52	3.49	3.47	3.45

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	3.40	3.39	3.39						
15.0	3.52	3.52	3.52	3.52					
20.0	3.67	3.67	3.68	3.68	3.68				
25.0	3.85	3.85	3.86	3.86	3.85	3.85			
30.0	4.06	4.07	4.07	4.07	4.07	4.06	4.05	4.05	4.04
35.0	4.31	4.32	4.33	4.33	4.32	4.31	4.30	4.29	4.28
40.0	4.62	4.63	4.64	4.63	4.63	4.61	4.59	4.58	4.57
45.0	4.98	4.99	5.00	5.00	4.98	4.97	4.94	4.93	4.91
50.0		5.42	5.43	5.42	5.41	5.38	5.35	5.34	5.32
55.0			5.92	5.92	5.90	5.87	5.84	5.82	5.79
60.0				6.49	6.47	6.44	6.39	6.37	6.34

50 Hz

ZB21KCE-TFD

R404A Dew Point

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	23.80	29.50	36.40						
15.0	23.80	29.50	36.40	44.50					
20.0	23.80	29.50	36.40	44.50	53.90				
25.0	23.60	29.40	36.20	44.20	53.70	64.70			
30.0	23.40	29.10	35.90	43.90	53.30	64.20	77.00	82.70	92.00
35.0	23.10	28.80	35.50	43.40	52.70	63.60	76.40	82.10	91.30
40.0	22.70	28.40	35.00	42.80	52.00	62.90	75.50	81.20	90.50
45.0	22.30	27.80	34.30	42.10	51.20	61.90	74.50	80.20	89.50
50.0		27.10	33.50	41.10	50.10	60.80	73.40	79.10	88.40
55.0			32.60	40.10	49.00	59.50	72.10	77.80	87.20
60.0				39.00	47.70	58.30	70.90	76.70	86.30

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	8.61
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	27.3
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
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 Power with Sound Shell (MT), dBA	62
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	2.50
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.2
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
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
TFE	500 V / 3~ / 50 Hz	500		Y	0.80
TW5	200-220 V / 3~ / 50 Hz	200		Y	2.30
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TFE	575 V / 3~ / 60 Hz	575		Y	0.80