



Minimum Evaporating Temp. With:

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

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	3.41	4.14	5.02						
15.0	3.23	3.94	4.79	5.79					
20.0	3.05	3.74	4.55	5.50	6.61				
25.0	2.87	3.52	4.30	5.20	6.25	7.46			
30.0	2.69	3.31	4.04	4.89	5.88	7.03	8.33	8.90	9.81
35.0	2.50	3.09	3.77	4.57	5.50	6.57	7.80	8.33	9.19
40.0	2.31	2.86	3.50	4.24	5.11	6.10	7.24	7.74	8.54
45.0	2.11	2.62	3.21	3.90	4.70	5.62	6.67	7.13	7.87
50.0		2.38	2.92	3.55	4.27	5.11	6.08	6.50	7.18
55.0			2.61	3.18	3.83	4.59	5.46	5.85	6.46
60.0				2.80	3.37	4.04	4.82	5.17	5.72

50 Hz

ZB19KCE-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	0.93	0.93	0.92						
15.0	1.04	1.04	1.04	1.04					
20.0	1.18	1.18	1.18	1.18	1.17				
25.0	1.32	1.32	1.32	1.32	1.32	1.31			
30.0	1.48	1.48	1.48	1.48	1.48	1.47	1.46	1.46	1.46
35.0	1.67	1.67	1.67	1.66	1.66	1.65	1.64	1.64	1.63
40.0	1.88	1.88	1.88	1.86	1.86	1.85	1.84	1.84	1.82
45.0	2.12	2.11	2.11	2.10	2.09	2.07	2.06	2.05	2.04
50.0		2.38	2.37	2.35	2.34	2.32	2.31	2.30	2.29
55.0			2.66	2.64	2.62	2.61	2.58	2.58	2.56
60.0				2.96	2.94	2.92	2.89	2.88	2.87

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	2.86	2.87	2.86						
15.0	2.97	2.98	2.98	2.97					
20.0	3.09	3.10	3.11	3.11	3.09				
25.0	3.23	3.25	3.26	3.26	3.25	3.22			
30.0	3.40	3.42	3.44	3.44	3.44	3.41	3.37	3.34	3.30
35.0	3.61	3.63	3.65	3.65	3.65	3.63	3.59	3.57	3.53
40.0	3.87	3.88	3.90	3.90	3.90	3.89	3.85	3.83	3.79
45.0	4.18	4.19	4.19	4.20	4.20	4.18	4.15	4.13	4.10
50.0		4.55	4.55	4.55	4.54	4.53	4.49	4.48	4.44
55.0			4.97	4.96	4.95	4.93	4.89	4.88	4.84
60.0				5.44	5.42	5.40	5.36	5.34	5.30

50 Hz

ZB19KCE-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	19.20	23.40	28.60						
15.0	18.95	23.20	28.40	34.60					
20.0	18.75	23.00	28.20	34.40	41.70				
25.0	18.45	22.80	28.00	34.10	41.40	50.00			
30.0	18.20	22.50	27.70	33.80	41.10	49.60	59.70	64.20	71.50
35.0	17.85	22.20	27.30	33.40	40.70	49.20	59.20	63.70	71.00
40.0	17.55	21.80	26.90	33.00	40.20	48.60	58.60	63.10	70.50
45.0	17.15	21.40	26.50	32.50	39.60	48.00	58.00	62.50	69.90
50.0		21.00	26.00	31.90	38.90	47.30	57.30	61.80	69.20
55.0			25.40	31.20	38.20	46.50	56.50	61.00	68.50
60.0				30.60	37.40	45.70	55.80	60.40	68.10

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	6.83
Length/Width, mm	242/242
Height, mm	389
Net Weight, kg	25.8
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.12
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 Power with Sound Shell (MT), dBA	59
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	5.4
Locked Rotor Current, A	32
Winding Resistance, ohm	5.8
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Oil Control System	ALCO Trax-Oil OM3

### **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