



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	2.96	3.64	4.45						
15.0	2.83	3.49	4.27	5.18					
20.0	2.67	3.31	4.06	4.93	5.93				
25.0	2.50	3.11	3.83	4.65	5.60	6.68			
30.0	2.31	2.89	3.57	4.35	5.24	6.26	7.41	7.92	8.72
35.0	2.10	2.66	3.30	4.03	4.86	5.81	6.89	7.36	8.11
40.0	1.87	2.40	3.00	3.69	4.46	5.34	6.34	6.78	7.47
45.0	1.63	2.13	2.69	3.32	4.04	4.85	5.77	6.17	6.81
50.0		1.84	2.36	2.94	3.59	4.33	5.17	5.54	6.12
55.0			2.01	2.54	3.13	3.79	4.55	4.88	5.40
60.0				2.12	2.65	3.24	3.91	4.20	4.67

50 Hz

ZB15KCE-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	0.80	0.78	0.75						
15.0	0.89	0.89	0.86	0.82					
20.0	1.00	1.00	0.98	0.95	0.92				
25.0	1.12	1.12	1.10	1.08	1.05	1.02			
30.0	1.28	1.27	1.25	1.23	1.20	1.17	1.16	1.16	1.16
35.0	1.46	1.45	1.42	1.39	1.36	1.33	1.32	1.32	1.32
40.0	1.70	1.67	1.63	1.58	1.54	1.51	1.49	1.48	1.49
45.0	1.98	1.94	1.88	1.82	1.76	1.72	1.69	1.68	1.68
50.0		2.26	2.18	2.10	2.03	1.96	1.92	1.91	1.90
55.0			2.54	2.44	2.34	2.26	2.20	2.18	2.16
60.0				2.84	2.71	2.61	2.52	2.49	2.46

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	2.19	2.17	2.14						
15.0	2.26	2.26	2.23	2.19					
20.0	2.34	2.35	2.33	2.30	2.27				
25.0	2.46	2.46	2.45	2.42	2.39	2.37			
30.0	2.61	2.61	2.59	2.56	2.53	2.51	2.51	2.52	2.54
35.0	2.82	2.81	2.78	2.74	2.70	2.68	2.67	2.67	2.69
40.0	3.09	3.06	3.02	2.96	2.91	2.88	2.86	2.86	2.87
45.0	3.44	3.39	3.32	3.25	3.18	3.12	3.09	3.09	3.09
50.0		3.80	3.70	3.61	3.51	3.43	3.38	3.37	3.36
55.0			4.18	4.05	3.93	3.82	3.73	3.71	3.68
60.0				4.59	4.43	4.29	4.17	4.13	4.09

50 Hz

ZB15KCE-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	16.65	20.60	25.30						
15.0	16.60	20.60	25.30	30.90					
20.0	16.40	20.40	25.20	30.80	37.40				
25.0	16.05	20.10	24.90	30.50	37.10	44.70			
30.0	15.60	19.70	24.50	30.10	36.60	44.20	53.10	57.10	63.50
35.0	15.00	19.10	23.90	29.50	35.90	43.50	52.30	56.30	62.70
40.0	14.20	18.35	23.10	28.70	35.10	42.60	51.40	55.30	61.70
45.0	13.25	17.40	22.20	27.70	34.00	41.50	50.20	54.10	60.40
50.0		16.25	21.00	26.40	32.70	40.10	48.70	52.60	59.00
55.0			19.55	25.00	31.20	38.50	47.10	50.90	57.30
60.0				23.20	29.40	36.60	45.20	49.10	55.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	5.92
Length/Width, mm	241/241
Height, mm	382
Net Weight, kg	25.3
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	0.74
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	4.9
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
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