



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- 25 °C Suction Gas Return with Voltage limit $\pm 0\%$
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

ZB15KCE-TFD

R134a

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	1.80	2.27	2.83	3.51						
15.0	1.72	2.17	2.73	3.39						
20.0	1.64	2.08	2.61	3.25	4.01					
25.0	1.55	1.98	2.49	3.11	3.84	4.69	5.07			
30.0	1.46	1.87	2.37	2.97	3.67	4.49	4.85	5.43	5.96	
35.0	1.38	1.76	2.25	2.82	3.49	4.28	4.63	5.19	5.69	6.23
40.0	1.28	1.66	2.12	2.66	3.31	4.07	4.40	4.94	5.42	5.94
45.0		1.55	1.98	2.51	3.12	3.84	4.16	4.68	5.14	5.63
50.0		1.44	1.85	2.34	2.93	3.61	3.92	4.41	4.85	5.32
55.0			1.72	2.18	2.73	3.37	3.66	4.13	4.55	5.00
60.0				2.01	2.52	3.13	3.40	3.84	4.24	4.67
65.0				1.84	2.31	2.88	3.14	3.55	3.92	4.33
70.0					2.10	2.63	2.86	3.25	3.60	3.98
75.0					1.88	2.37	2.59	2.94	3.27	3.62

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	0.48	0.47	0.47	0.48						
15.0	0.54	0.54	0.54	0.54						
20.0	0.61	0.60	0.61	0.61	0.62					
25.0	0.68	0.68	0.68	0.68	0.69	0.70	0.70			
30.0	0.75	0.75	0.76	0.76	0.77	0.78	0.78	0.79	0.80	
35.0	0.84	0.84	0.84	0.85	0.86	0.86	0.87	0.87	0.88	0.88
40.0	0.92	0.93	0.94	0.94	0.95	0.96	0.96	0.97	0.97	0.98
45.0		1.03	1.04	1.05	1.06	1.06	1.07	1.08	1.08	1.08
50.0		1.14	1.16	1.17	1.18	1.18	1.19	1.20	1.20	1.20
55.0			1.28	1.30	1.31	1.32	1.32	1.32	1.33	1.34
60.0				1.44	1.46	1.46	1.47	1.48	1.48	1.48
65.0				1.60	1.62	1.63	1.64	1.64	1.64	1.65
70.0					1.80	1.82	1.82	1.82	1.83	1.83
75.0					2.00	2.01	2.02	2.03	2.03	2.04

50 Hz

ZB15KCE-TFD

R134a

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	1.98	1.96	1.95	1.95						
15.0	2.03	2.01	2.00	2.00						
20.0	2.09	2.07	2.06	2.06	2.07					
25.0	2.15	2.14	2.13	2.13	2.14	2.15	2.16			
30.0	2.22	2.22	2.21	2.21	2.22	2.23	2.23	2.25	2.26	
35.0	2.31	2.31	2.31	2.31	2.31	2.32	2.33	2.34	2.35	2.36
40.0	2.40	2.41	2.42	2.42	2.43	2.44	2.44	2.45	2.46	2.47
45.0		2.53	2.55	2.56	2.56	2.57	2.58	2.58	2.59	2.60
50.0		2.68	2.70	2.71	2.72	2.73	2.74	2.74	2.75	2.75
55.0			2.87	2.89	2.91	2.92	2.92	2.93	2.93	2.94
60.0				3.10	3.12	3.13	3.14	3.15	3.15	3.15
65.0				3.33	3.36	3.38	3.39	3.39	3.40	3.40
70.0					3.63	3.66	3.66	3.67	3.68	3.68
75.0					3.94	3.97	3.98	3.99	4.00	4.01

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	9.97	12.30	15.15	18.45						
15.0	9.89	12.25	15.10	18.45						
20.0	9.81	12.20	15.05	18.45	22.30					
25.0	9.71	12.15	15.00	18.40	22.30	26.70	28.60			
30.0	9.60	12.05	14.95	18.30	22.20	26.70	28.60	31.70	34.40	
35.0	9.48	11.95	14.85	18.20	22.10	26.60	28.50	31.60	34.40	37.20
40.0	9.36	11.80	14.70	18.10	22.00	26.50	28.40	31.50	34.30	37.20
45.0		11.65	14.55	17.95	21.90	26.30	28.30	31.40	34.10	37.00
50.0		11.50	14.40	17.75	21.70	26.10	28.10	31.20	33.90	36.80
55.0			14.20	17.55	21.40	25.90	27.80	30.90	33.70	36.60
60.0				17.30	21.20	25.60	27.50	30.60	33.40	36.30
65.0				17.05	20.90	25.30	27.20	30.30	33.10	36.00
70.0					20.50	24.90	26.80	29.90	32.70	35.60
75.0					20.20	24.50	26.40	29.50	32.30	35.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	1430
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

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