



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

ZB29KCE-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	3.29	4.14	5.18	6.42						
15.0	3.14	3.97	4.98	6.18						
20.0	2.99	3.79	4.77	5.94	7.32					
25.0	2.83	3.61	4.55	5.69	7.02	8.57	9.26			
30.0	2.67	3.42	4.33	5.42	6.71	8.20	8.86	9.93	10.90	
35.0	2.51	3.23	4.10	5.15	6.38	7.82	8.46	9.48	10.40	11.40
40.0	2.35	3.03	3.87	4.87	6.05	7.43	8.04	9.02	9.90	10.85
45.0		2.84	3.63	4.58	5.70	7.02	7.60	8.54	9.39	10.30
50.0		2.64	3.38	4.28	5.34	6.60	7.15	8.05	8.85	9.72
55.0			3.13	3.97	4.98	6.16	6.69	7.54	8.31	9.13
60.0				3.66	4.61	5.72	6.21	7.02	7.74	8.52
65.0				3.35	4.22	5.26	5.73	6.48	7.17	7.90
70.0					3.83	4.80	5.23	5.94	6.58	7.27
75.0					3.44	4.32	4.72	5.38	5.97	6.61

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	0.88	0.87	0.87	0.88						
15.0	0.99	0.99	0.99	1.00						
20.0	1.12	1.12	1.12	1.12	1.14					
25.0	1.25	1.25	1.25	1.26	1.28	1.29	1.30			
30.0	1.39	1.39	1.40	1.40	1.42	1.44	1.44	1.46	1.46	
35.0	1.54	1.54	1.56	1.56	1.58	1.59	1.60	1.61	1.62	1.63
40.0	1.70	1.72	1.73	1.74	1.76	1.77	1.78	1.78	1.80	1.80
45.0		1.90	1.92	1.94	1.95	1.96	1.97	1.98	1.99	2.00
50.0		2.11	2.13	2.15	2.17	2.19	2.19	2.20	2.21	2.21
55.0			2.37	2.39	2.41	2.43	2.44	2.45	2.45	2.46
60.0				2.66	2.68	2.70	2.71	2.72	2.73	2.73
65.0				2.95	2.98	3.01	3.01	3.03	3.03	3.04
70.0					3.31	3.34	3.35	3.36	3.37	3.38
75.0					3.68	3.71	3.72	3.74	3.74	3.75

50 Hz

ZB29KCE-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	3.36	3.33	3.31	3.31						
15.0	3.45	3.42	3.40	3.40						
20.0	3.54	3.51	3.50	3.50	3.51					
25.0	3.65	3.63	3.62	3.62	3.63	3.65	3.66			
30.0	3.77	3.76	3.75	3.75	3.76	3.78	3.79	3.81	3.83	
35.0	3.91	3.91	3.91	3.92	3.93	3.94	3.95	3.97	3.98	4.00
40.0	4.08	4.09	4.10	4.11	4.12	4.14	4.15	4.16	4.17	4.18
45.0		4.30	4.32	4.34	4.35	4.37	4.38	4.39	4.40	4.41
50.0		4.54	4.57	4.60	4.62	4.64	4.65	4.66	4.66	4.67
55.0			4.87	4.90	4.93	4.95	4.96	4.97	4.98	4.99
60.0				5.25	5.29	5.32	5.33	5.34	5.35	5.35
65.0				5.65	5.70	5.73	5.74	5.76	5.77	5.77
70.0					6.16	6.21	6.22	6.24	6.25	6.25
75.0					6.69	6.74	6.76	6.77	6.79	6.80

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	18.20	22.50	27.60	33.70						
15.0	18.05	22.40	27.60	33.70						
20.0	17.90	22.30	27.50	33.70	40.70					
25.0	17.75	22.20	27.40	33.60	40.70	48.80	52.30			
30.0	17.55	22.00	27.30	33.50	40.60	48.70	52.20	57.90	62.80	
35.0	17.30	21.80	27.10	33.30	40.40	48.60	52.10	57.70	62.70	68.00
40.0	17.10	21.60	26.90	33.10	40.20	48.30	51.90	57.60	62.60	67.90
45.0		21.30	26.60	32.80	39.90	48.10	51.60	57.30	62.30	67.60
50.0		21.00	26.30	32.40	39.60	47.70	51.30	56.90	62.00	67.30
55.0			25.90	32.10	39.10	47.30	50.80	56.50	61.50	66.80
60.0				31.60	38.70	46.70	50.30	55.90	61.00	66.30
65.0				31.10	38.10	46.10	49.70	55.30	60.40	65.70
70.0					37.50	45.50	49.00	54.70	59.70	65.10
75.0					36.80	44.80	48.30	53.90	59.00	64.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.4
Length/Width, mm	246/246
Height, mm	423
Net Weight, kg	28.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
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 (19)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
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	2.90
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	50
Winding Resistance, ohm	3.88
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

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