



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

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
22.0	3.24									
25.0	3.14	4.00								
30.0	2.98	3.81	4.76	5.87						
35.0	2.84	3.63	4.53	5.59	6.84	8.32	8.98			
40.0	2.69	3.45	4.31	5.31	6.49	7.88	8.51	9.54		
45.0		3.28	4.09	5.03	6.13	7.45	8.04	9.01		
50.0		3.11	3.87	4.75	5.79	7.02	7.58	8.49		
55.0			3.66	4.47	5.44	6.59	7.11	7.96		
60.0				4.20	5.09	6.15	6.64	7.43		
65.0				3.92	4.74	5.72	6.17	6.91		
70.0					4.39	5.28	5.69	6.37		
75.0					4.04	4.85	5.22	5.84		

50 Hz

ZBD30KCE-TFD

R134a

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
22.0	1.24									
25.0	1.30	1.34								
30.0	1.40	1.46	1.52	1.58						
35.0	1.50	1.58	1.64	1.71	1.78	1.88	1.94			
40.0	1.60	1.70	1.78	1.86	1.93	2.02	2.06	2.13		
45.0		1.82	1.93	2.01	2.09	2.17	2.21	2.27		
50.0		1.94	2.08	2.18	2.27	2.35	2.38	2.44		
55.0			2.23	2.36	2.46	2.55	2.58	2.63		
60.0				2.53	2.66	2.76	2.79	2.85		
65.0				2.71	2.86	2.98	3.02	3.08		
70.0					3.07	3.21	3.26	3.33		
75.0					3.27	3.45	3.51	3.59		

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
22.0	2.63									
25.0	2.73	2.83								
30.0	2.91	3.02	3.12	3.23						
35.0	3.08	3.22	3.33	3.44	3.56	3.71	3.78			
40.0	3.25	3.42	3.55	3.66	3.78	3.91	3.97	4.07		
45.0		3.62	3.77	3.90	4.02	4.14	4.19	4.28		
50.0		3.80	4.00	4.15	4.28	4.39	4.44	4.52		
55.0			4.22	4.40	4.55	4.67	4.72	4.79		
60.0				4.65	4.82	4.96	5.01	5.08		
65.0				4.89	5.10	5.26	5.32	5.39		
70.0					5.37	5.56	5.63	5.72		
75.0					5.63	5.87	5.94	6.05		

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
22.0	19.75									
25.0	19.70	24.50								
30.0	19.60	24.50	30.00	36.20						
35.0	19.60	24.50	29.90	36.10	43.30	51.60	55.30			
40.0	19.60	24.50	29.90	36.10	43.10	51.30	55.00	60.90		
45.0		24.60	30.00	36.00	43.00	51.00	54.60	60.50		
50.0		24.80	30.10	36.00	42.80	50.80	54.30	60.00		
55.0			30.30	36.10	42.70	50.50	54.00	59.60		
60.0				36.20	42.70	50.30	53.70	59.30		
65.0				36.50	42.80	50.20	53.50	58.90		
70.0					42.90	50.10	53.40	58.70		
75.0					43.30	50.20	53.40	58.60		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.7
Length/Width, mm	241/246
Height, mm	481
Net Weight, kg	36.7
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.89
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, dBA	59
Sound Power, dBA	70
PED Category	1
Max. Low Side Internal Free Volume, l	6.3
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	6.80
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	7.9
Locked Rotor Current, A	51.5
Winding Resistance, ohm	3.64
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	NTC sensor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Oil Control System	ALCO Trax-Oil OM3
Solenoid Valve Kit	220 V Ac 12" lead Length
Digital Tubing Kit	220 V 0.3m Rotalock
Digital Control Kit	EC2-552
Mounting Grommets	Hard Mounts for Paralleling
Digital Driver	EC3-D13
Solenoid valve	Standard
Valve Coil	24V AC
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Control Kit	EC3-652

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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09