



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- 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
20.0	10.15	12.55	15.35	18.60	22.40	26.80			
25.0	9.53	11.90	14.60	17.70	21.30	25.40	30.10		
30.0	8.86	11.15	13.80	16.75	20.10	24.00	28.40	30.40	33.50
35.0	8.11	10.40	12.90	15.70	18.90	22.50	26.70	28.50	31.40
40.0	7.28	9.53	11.95	14.65	17.65	21.00	24.80	26.50	29.20
45.0		8.56	10.90	13.45	16.25	19.40	22.90	24.50	27.00
50.0			9.74	12.15	14.80	17.70	21.00	22.40	24.60
55.0			8.42	10.75	13.20	15.85	18.85	20.10	22.20
60.0				9.14	11.45	13.90	16.60	17.75	19.65

50 Hz

ZBD58KCE-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
20.0	3.59	3.66	3.75	3.84	3.89	3.89			
25.0	4.00	4.05	4.13	4.22	4.29	4.31	4.26		
30.0	4.48	4.50	4.57	4.65	4.72	4.76	4.74	4.70	4.63
35.0	5.05	5.03	5.07	5.14	5.20	5.25	5.25	5.23	5.17
40.0	5.72	5.66	5.66	5.70	5.76	5.80	5.81	5.79	5.75
45.0		6.39	6.35	6.36	6.39	6.43	6.43	6.42	6.39
50.0			7.16	7.12	7.13	7.14	7.14	7.13	7.10
55.0			8.10	8.01	7.97	7.96	7.94	7.93	7.90
60.0				9.03	8.95	8.90	8.85	8.83	8.79

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
20.0	9.42	9.50	9.60	9.70	9.77	9.77			
25.0	9.75	9.81	9.91	10.02	10.10	10.14	10.10		
30.0	10.19	10.22	10.30	10.40	10.50	10.56	10.55	10.52	10.44
35.0	10.76	10.74	10.79	10.88	10.98	11.05	11.06	11.05	10.99
40.0	11.48	11.41	11.42	11.48	11.56	11.63	11.66	11.65	11.61
45.0		12.24	12.20	12.22	12.27	12.33	12.36	12.35	12.32
50.0			13.15	13.13	13.14	13.17	13.19	13.18	13.16
55.0			14.31	14.22	14.19	14.18	14.18	14.16	14.13
60.0				15.53	15.43	15.38	15.34	15.32	15.27

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
20.0	62.20	77.40	95.20	116.50	141.50	171.00			
25.0	61.20	76.80	94.90	116.00	141.00	170.00	205.00		
30.0	59.90	76.00	94.40	115.50	140.50	169.50	203.00	219.00	244.00
35.0	58.00	74.80	93.50	115.00	139.50	168.50	202.00	218.00	242.00
40.0	55.30	72.80	92.10	114.00	138.50	167.50	201.00	216.00	241.00
45.0		69.90	89.90	112.00	137.00	166.00	199.50	215.00	239.00
50.0			86.60	109.50	134.50	163.50	197.50	213.00	237.00
55.0			81.80	105.50	131.50	161.00	195.00	210.00	235.00
60.0				99.90	127.00	157.00	192.00	208.00	233.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	22.1
Length/Width, mm	264/284
Height, mm	476
Net Weight, kg	60
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	2.51
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	65
Sound Power (MT), dBA	76
Sound Power with Sound Shell (MT), dBA	66
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	2
Max. Low Side Internal Free Volume, l	12.6
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.1
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
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	15.4
Locked Rotor Current, A	95
Winding Resistance, ohm	1.8
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Solenoid valve	Standard
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ACCESSORIES OPTIONAL

Mounting Grommets	Hard Mounts for Paralleling
Discharge Temperature Protection	Discharge line thermostat
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Digital Control Kit	EC2-552
Crankcase Heater	66 W External
Valve Coil	24V AC
Digital Control Kit	EC3-652
Mounting Grommets	Standard
Digital Driver	EC3-D13

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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