



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							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	9.20	11.65	14.50	17.80				
15.0	8.63	11.10	13.90	17.15				
20.0	8.01	10.45	13.25	16.45	20.10			
25.0	7.33	9.73	12.50	15.60	19.20	23.30		
30.0	6.59	8.97	11.65	14.75	18.25	22.20	26.60	28.60
35.0	5.81	8.14	10.75	13.75	17.15	21.00	25.40	27.20
40.0		7.27	9.82	12.70	16.00	19.75	24.00	25.80
45.0			8.81	11.60	14.80	18.40	22.50	24.30
50.0				10.45	13.50	16.95	20.90	22.60
55.0				9.20	12.10	15.40	19.20	20.90

50 Hz

ZBD58KCE-TFD

R407A Dew Point

Cond °C	Power, kW							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	2.45	2.49	2.53	2.57				
15.0	2.78	2.84	2.88	2.92				
20.0	3.15	3.21	3.26	3.30	3.34			
25.0	3.55	3.63	3.69	3.73	3.76	3.79		
30.0	3.99	4.09	4.15	4.20	4.24	4.26	4.29	4.30
35.0	4.47	4.58	4.67	4.73	4.76	4.79	4.81	4.81
40.0		5.13	5.23	5.30	5.35	5.37	5.39	5.39
45.0			5.85	5.93	5.99	6.01	6.03	6.03
50.0				6.62	6.69	6.72	6.73	6.74
55.0				7.37	7.45	7.50	7.51	7.51

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	6.87	6.98	7.08	7.18				
15.0	7.71	7.81	7.90	7.98				
20.0	8.44	8.55	8.63	8.70	8.76			
25.0	9.10	9.21	9.29	9.35	9.40	9.45		
30.0	9.71	9.83	9.91	9.97	10.01	10.05	10.08	10.09
35.0	10.29	10.42	10.51	10.57	10.62	10.64	10.66	10.67
40.0		11.01	11.11	11.18	11.23	11.25	11.27	11.27
45.0			11.74	11.82	11.88	11.91	11.92	11.92
50.0				12.52	12.58	12.62	12.64	12.64
55.0				13.28	13.37	13.42	13.45	13.45

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	49.90	62.30	76.30	92.20				
15.0	48.80	61.60	76.10	92.40				
20.0	47.20	60.50	75.50	92.20	111.00			
25.0	45.20	59.00	74.40	91.60	111.00	132.00		
30.0	42.70	57.00	72.80	90.40	110.00	132.00	156.00	166.00
35.0	39.70	54.50	70.80	88.80	109.00	131.00	155.50	166.00
40.0		51.50	68.20	86.60	107.00	129.50	155.00	165.50
45.0			64.90	83.80	104.50	128.00	153.50	164.50
50.0				80.30	101.50	125.00	151.50	162.50
55.0				76.00	97.80	122.00	149.00	160.50

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	2107
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