



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	12.25	15.45	19.20	23.50				
15.0	11.50	14.70	18.40	22.70				
20.0	10.70	13.85	17.50	21.70	26.50			
25.0	9.88	12.95	16.50	20.60	25.30	30.70		
30.0	9.01	12.00	15.45	19.45	24.00	29.20	35.10	37.60
35.0	8.11	11.00	14.30	18.20	22.60	27.70	33.40	35.80
40.0		9.93	13.10	16.85	21.10	26.00	31.50	33.90
45.0			11.90	15.40	19.50	24.20	29.60	31.90
50.0				13.95	17.80	22.30	27.50	29.70
55.0				12.40	16.05	20.30	25.20	27.40

50 Hz

ZBD76KCE-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	3.19	3.24	3.30	3.38				
15.0	3.63	3.69	3.75	3.81				
20.0	4.10	4.19	4.25	4.31	4.38			
25.0	4.61	4.72	4.80	4.86	4.92	5.00		
30.0	5.15	5.30	5.41	5.48	5.54	5.60	5.68	5.73
35.0	5.71	5.92	6.06	6.16	6.22	6.28	6.35	6.38
40.0		6.57	6.75	6.88	6.97	7.04	7.09	7.12
45.0			7.50	7.67	7.78	7.86	7.92	7.94
50.0				8.50	8.65	8.75	8.82	8.85
55.0				9.38	9.58	9.72	9.81	9.83

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	8.06	8.20	8.35	8.51				
15.0	9.06	9.20	9.32	9.44				
20.0	9.97	10.11	10.22	10.32	10.44			
25.0	10.80	10.96	11.07	11.16	11.25	11.36		
30.0	11.57	11.76	11.90	11.99	12.07	12.15	12.25	12.30
35.0	12.30	12.54	12.71	12.82	12.91	12.97	13.05	13.09
40.0		13.32	13.53	13.68	13.78	13.85	13.92	13.95
45.0			14.38	14.58	14.71	14.80	14.87	14.90
50.0				15.54	15.72	15.84	15.93	15.96
55.0				16.57	16.82	16.99	17.11	17.15

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	66.40	82.60	101.00	122.00				
15.0	65.00	81.70	100.50	122.50				
20.0	63.20	80.30	99.80	122.00	146.50			
25.0	61.00	78.50	98.40	121.00	146.00	174.00		
30.0	58.40	76.30	96.50	119.50	145.00	173.50	205.00	219.00
35.0	55.40	73.50	94.10	117.50	143.50	172.50	205.00	219.00
40.0		70.30	91.10	114.50	141.00	170.50	204.00	218.00
45.0			87.50	111.00	138.00	168.00	202.00	216.00
50.0				107.00	134.50	165.00	199.00	214.00
55.0				102.50	130.00	160.50	195.50	211.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	28.8
Length/Width, mm	293/285
Height, mm	533
Net Weight, kg	61.7
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.25
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	66
Sound Power (MT), dBA	77
Sound Power with Sound Shell (MT), dBA	67
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	20.4
Locked Rotor Current, A	118
Winding Resistance, ohm	1.27
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Solenoid valve	Standard
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ACCESSORIES OPTIONAL

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