



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	9.18	11.60	14.40	17.60				
15.0	8.62	11.05	13.85	17.00				
20.0	7.98	10.40	13.15	16.35	19.95			
25.0	7.30	9.69	12.40	15.55	19.10	23.10		
30.0	6.57	8.91	11.60	14.65	18.15	22.10	26.50	28.40
35.0	5.82	8.09	10.70	13.70	17.10	20.90	25.30	27.10
40.0		7.23	9.74	12.65	15.95	19.70	23.90	25.70
45.0			8.74	11.50	14.70	18.30	22.40	24.20
50.0				10.30	13.35	16.85	20.80	22.60
55.0				9.10	11.95	15.30	19.10	20.80

50 Hz

ZB58KCE-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	2.42	2.44	2.47	2.52				
15.0	2.77	2.80	2.82	2.85				
20.0	3.15	3.18	3.21	3.23	3.27			
25.0	3.56	3.61	3.64	3.66	3.68	3.73		
30.0	4.00	4.07	4.12	4.14	4.16	4.19	4.24	4.27
35.0	4.47	4.57	4.63	4.67	4.69	4.71	4.74	4.76
40.0		5.10	5.19	5.24	5.27	5.29	5.31	5.32
45.0			5.79	5.87	5.91	5.93	5.95	5.95
50.0				6.54	6.60	6.63	6.65	6.65
55.0				7.25	7.35	7.40	7.42	7.42

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	7.14	7.21	7.29	7.39				
15.0	8.03	8.09	8.14	8.21				
20.0	8.78	8.83	8.87	8.91	8.97			
25.0	9.41	9.46	9.49	9.52	9.56	9.62		
30.0	9.94	10.01	10.05	10.07	10.10	10.13	10.19	10.22
35.0	10.42	10.51	10.56	10.59	10.61	10.63	10.66	10.68
40.0		10.98	11.06	11.10	11.12	11.14	11.15	11.17
45.0			11.57	11.64	11.67	11.69	11.70	11.71
50.0				12.22	12.28	12.31	12.32	12.33
55.0				12.88	12.97	13.02	13.05	13.06

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	49.80	62.00	75.70	91.10				
15.0	48.70	61.40	75.70	91.70				
20.0	47.10	60.30	75.10	91.70	110.00			
25.0	45.10	58.70	74.00	91.20	110.00	131.00		
30.0	42.60	56.70	72.40	90.00	109.50	131.00	155.00	165.00
35.0	39.80	54.20	70.30	88.30	108.50	130.50	155.00	165.50
40.0		51.20	67.60	85.90	106.50	129.00	154.50	165.00
45.0			64.30	83.00	104.00	127.00	153.00	164.00
50.0				79.40	100.50	124.50	151.00	162.00
55.0				75.20	96.70	121.00	148.00	159.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	22.1
Length/Width, mm	264/284
Height, mm	476
Net Weight, kg	57.2
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. Internal Free Volume, l	10.5
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	15.6
Locked Rotor Current, A	95
Winding Resistance, ohm	1.8
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

<p>Crankcase Heater</p> <p>Rotalock valves</p> <p>Oil Control System</p> <p>Sound Attenuation</p> <p>Mounting Grommets</p> <p>Enclosure Class</p>	<p>66 W External suction and discharge</p> <p>ALCO Trax-Oil OM3</p> <p>Sound Shell (10dBA)</p> <p>Hard Mounts for Paralleling</p> <p>IP66 With Molded Plug</p>
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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