



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	12.20	15.15	18.60	22.40				
15.0	11.70	14.75	18.30	22.30				
20.0	11.10	14.15	17.80	21.90	26.30			
25.0	10.45	13.45	17.10	21.20	25.70	30.60		
30.0		12.70	16.20	20.30	24.80	29.70	34.90	37.00
35.0			15.25	19.25	23.70	28.60	33.80	35.90
40.0			14.20	18.05	22.40	27.20	32.30	34.40
45.0				16.75	20.90	25.50	30.50	32.60
50.0					19.30	23.70	28.50	30.50
55.0						21.70	26.30	28.20

50 Hz

ZB76K5E-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	3.60	3.45	3.43	3.41				
15.0	3.96	3.85	3.88	3.95				
20.0	4.35	4.24	4.31	4.45	4.55			
25.0	4.80	4.67	4.76	4.94	5.11	5.16		
30.0		5.18	5.25	5.44	5.66	5.80	5.74	5.63
35.0			5.82	6.00	6.25	6.43	6.46	6.39
40.0			6.50	6.65	6.89	7.10	7.19	7.16
45.0				7.42	7.63	7.85	7.96	7.95
50.0					8.50	8.69	8.81	8.82
55.0						9.68	9.78	9.78

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	9.05	9.18	9.19	9.05				
15.0	9.32	9.51	9.61	9.60				
20.0	9.66	9.88	10.04	10.12	10.10			
25.0	10.11	10.33	10.52	10.67	10.74	10.72		
30.0		10.91	11.10	11.28	11.42	11.49	11.48	11.45
35.0			11.81	11.99	12.17	12.31	12.39	12.41
40.0			12.70	12.86	13.03	13.21	13.37	13.41
45.0				13.91	14.06	14.25	14.44	14.51
50.0					15.30	15.45	15.65	15.74
55.0						16.88	17.05	17.14

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	57.30	71.40	88.00	106.50				
15.0	56.80	71.90	89.70	110.00				
20.0	55.90	71.70	90.40	112.00	135.50			
25.0	54.70	70.80	90.30	112.50	138.00	165.00		
30.0		69.50	89.40	112.50	139.00	167.50	199.00	212.00
35.0			87.90	111.50	138.50	168.50	201.00	215.00
40.0			86.00	109.50	137.50	168.00	202.00	217.00
45.0				107.50	135.00	166.50	202.00	217.00
50.0					132.00	164.00	200.00	215.00
55.0						160.00	196.50	212.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	28.8
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	61.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (0)
Sound Pressure @ 1m (MT), dBA	67
Sound Power (MT), dBA	78
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	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
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	1.23
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling

50 Hz

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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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04