



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	11.95	15.20	19.05	23.50				
15.0	11.30	14.50	18.25	22.70				
20.0	10.60	13.70	17.40	21.70	26.60			
25.0	9.83	12.85	16.45	20.60	25.40	30.90		
30.0	9.04	11.95	15.45	19.45	24.10	29.40	35.40	38.00
35.0	8.21	11.05	14.35	18.20	22.70	27.80	33.60	36.20
40.0		10.05	13.20	16.90	21.20	26.10	31.70	34.20
45.0			12.00	15.50	19.60	24.30	29.70	32.00
50.0				14.05	17.90	22.40	27.50	29.80
55.0				12.50	16.15	20.40	25.30	27.40

50 Hz

ZB76KCE-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	3.14	3.18	3.24	3.33				
15.0	3.58	3.63	3.68	3.75				
20.0	4.06	4.13	4.18	4.23	4.31			
25.0	4.57	4.67	4.74	4.78	4.84	4.94		
30.0	5.11	5.25	5.34	5.40	5.45	5.52	5.63	5.68
35.0	5.67	5.87	6.00	6.08	6.13	6.19	6.26	6.30
40.0		6.51	6.69	6.81	6.88	6.93	6.99	7.02
45.0			7.42	7.58	7.69	7.75	7.81	7.83
50.0				8.41	8.55	8.64	8.70	8.72
55.0				9.27	9.47	9.60	9.68	9.70

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	8.45	8.60	8.75	8.94				
15.0	9.45	9.58	9.69	9.82				
20.0	10.33	10.45	10.55	10.64	10.75			
25.0	11.11	11.25	11.33	11.40	11.48	11.59		
30.0	11.81	11.98	12.08	12.14	12.20	12.28	12.40	12.47
35.0	12.45	12.67	12.80	12.88	12.93	12.99	13.08	13.13
40.0		13.34	13.53	13.64	13.71	13.76	13.83	13.87
45.0			14.27	14.44	14.54	14.61	14.68	14.71
50.0				15.30	15.45	15.55	15.64	15.67
55.0				16.24	16.46	16.62	16.74	16.78

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	64.90	81.30	100.50	122.00				
15.0	63.80	80.60	99.90	122.00				
20.0	62.40	79.50	99.20	121.50	147.00			
25.0	60.70	78.00	98.00	121.00	146.50	175.50		
30.0	58.60	76.20	96.40	119.50	145.50	174.50	207.00	221.00
35.0	56.10	73.90	94.30	117.50	144.00	173.50	206.00	220.00
40.0		71.10	91.60	115.00	141.50	171.50	205.00	219.00
45.0			88.40	112.00	138.50	168.50	202.00	217.00
50.0				108.00	135.00	165.50	199.50	214.00
55.0				103.50	130.50	161.00	195.50	211.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	29.1
Length/Width, mm	264/284
Height, mm	533
Net Weight, kg	61.2
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. Internal Free Volume, l	13.3
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	1.24
Default Enclosure Class	IP 21 (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)
Mounting Grommets	Hard Mounts for Paralleling
Crankcase Heater	66 W External
Rotalock valves	suction and discharge
Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug

### 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
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