



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									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	9.19	11.50	14.30	17.55						
15.0	8.81	11.05	13.75	16.95						
20.0	8.41	10.60	13.20	16.30	19.85					
25.0	8.02	10.10	12.65	15.65	19.10	23.00	24.70			
30.0	7.62	9.62	12.05	14.95	18.25	22.10	23.70	26.40	28.70	
35.0	7.23	9.13	11.45	14.20	17.40	21.10	22.70	25.20	27.50	29.90
40.0	6.86	8.63	10.80	13.45	16.50	20.00	21.50	24.00	26.20	28.40
45.0		8.14	10.20	12.65	15.60	18.90	20.40	22.70	24.80	27.00
50.0			9.56	11.90	14.60	17.80	19.20	21.40	23.40	25.50
55.0				11.10	13.65	16.65	17.95	20.00	21.90	23.90
60.0				10.30	12.65	15.45	16.65	18.65	20.40	22.20
65.0					11.65	14.25	15.35	17.20	18.85	20.60
70.0						13.00	14.05	15.75	17.25	18.85
75.0						11.75	12.70	14.25	15.60	17.10

50 Hz

ZB76K5E-TFD

R134a

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	2.16	2.16	2.24	2.38						
15.0	2.48	2.45	2.51	2.63						
20.0	2.81	2.78	2.82	2.92	3.03					
25.0	3.18	3.13	3.16	3.24	3.34	3.43	3.46			
30.0	3.57	3.52	3.54	3.61	3.70	3.77	3.79	3.80	3.79	
35.0	3.98	3.94	3.96	4.02	4.10	4.15	4.16	4.16	4.14	4.10
40.0	4.42	4.39	4.42	4.48	4.54	4.59	4.60	4.59	4.56	4.51
45.0		4.87	4.90	4.97	5.04	5.08	5.08	5.06	5.03	4.97
50.0			5.43	5.50	5.57	5.62	5.62	5.60	5.56	5.50
55.0				6.08	6.16	6.20	6.21	6.19	6.15	6.08
60.0				6.69	6.79	6.84	6.85	6.83	6.80	6.73
65.0					7.46	7.54	7.55	7.54	7.50	7.44
70.0						8.28	8.29	8.29	8.27	8.21
75.0						9.07	9.09	9.11	9.09	9.04

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	9.53	9.66	9.80	9.95						
15.0	9.67	9.76	9.87	9.98						
20.0	9.84	9.92	10.00	10.08	10.15					
25.0	10.07	10.13	10.19	10.25	10.29	10.32	10.33			
30.0	10.34	10.39	10.44	10.48	10.51	10.52	10.51	10.49	10.46	
35.0	10.65	10.70	10.75	10.79	10.81	10.79	10.78	10.75	10.71	10.66
40.0	11.01	11.07	11.13	11.17	11.18	11.16	11.14	11.10	11.05	10.99
45.0		11.49	11.56	11.61	11.63	11.61	11.59	11.54	11.49	11.43
50.0			12.05	12.12	12.15	12.14	12.12	12.08	12.03	11.96
55.0				12.69	12.75	12.75	12.74	12.71	12.66	12.60
60.0				13.34	13.42	13.45	13.45	13.42	13.39	13.33
65.0					14.17	14.23	14.24	14.23	14.21	14.16
70.0						15.09	15.11	15.13	15.12	15.09
75.0						16.03	16.07	16.11	16.13	16.12

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	44.60	56.00	69.80	86.00						
15.0	44.20	55.70	69.60	86.10						
20.0	43.80	55.30	69.30	85.90	105.50					
25.0	43.40	54.90	68.90	85.60	105.00	127.50	137.50			
30.0	42.90	54.40	68.40	85.20	105.00	127.50	137.50	153.50	168.00	
35.0	42.50	53.80	67.80	84.50	104.50	127.00	137.50	153.50	168.00	184.00
40.0	42.10	53.20	67.10	83.80	103.50	126.50	136.50	153.00	168.00	183.50
45.0		52.70	66.30	82.90	102.50	125.50	136.00	152.50	167.00	183.00
50.0			65.50	81.90	101.50	124.50	135.00	151.50	166.50	182.50
55.0				80.80	100.00	123.00	133.50	150.00	165.00	181.00
60.0				79.60	98.80	121.50	132.00	148.50	163.50	180.00
65.0					97.30	120.00	130.00	147.00	162.00	178.00
70.0						118.00	128.50	145.00	160.00	176.50
75.0						116.50	126.50	143.00	158.00	174.50

### 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	1430
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

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04