



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	11.60	14.50	18.00	22.20						
15.0	11.15	13.95	17.35	21.40						
20.0	10.65	13.45	16.70	20.60	25.20					
25.0	10.15	12.85	16.05	19.80	24.20	29.30	31.60			
30.0	9.57	12.25	15.35	18.95	23.10	28.10	30.20	33.80	37.00	
35.0	8.92	11.55	14.55	18.05	22.10	26.80	28.80	32.20	35.20	38.50
40.0	8.20	10.80	13.75	17.10	21.00	25.40	27.40	30.60	33.40	36.50
45.0		9.96	12.85	16.10	19.80	24.00	25.90	28.90	31.60	34.50
50.0			11.80	14.95	18.50	22.60	24.30	27.20	29.70	32.50
55.0				13.75	17.15	21.00	22.70	25.40	27.80	30.30
60.0				12.40	15.70	19.35	20.90	23.50	25.70	28.10
65.0					14.10	17.55	19.05	21.50	23.60	25.80
70.0						15.65	17.10	19.35	21.30	23.40
75.0						13.60	14.95	17.05	18.90	20.90

50 Hz

ZB95K5E-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	2.81	2.92	3.05	3.18						
15.0	3.14	3.24	3.35	3.47						
20.0	3.51	3.59	3.69	3.80	3.92					
25.0	3.91	3.99	4.07	4.16	4.28	4.41	4.47			
30.0	4.36	4.43	4.50	4.58	4.68	4.81	4.86	4.95	5.04	
35.0	4.87	4.93	4.99	5.06	5.15	5.27	5.32	5.40	5.48	5.57
40.0	5.44	5.49	5.55	5.61	5.70	5.80	5.85	5.93	6.00	6.08
45.0		6.13	6.18	6.24	6.32	6.41	6.46	6.53	6.60	6.68
50.0			6.90	6.96	7.03	7.12	7.16	7.23	7.29	7.37
55.0				7.77	7.84	7.92	7.96	8.02	8.09	8.16
60.0				8.69	8.75	8.83	8.87	8.93	8.99	9.06
65.0					9.78	9.86	9.89	9.95	10.00	10.10
70.0						11.00	11.05	11.10	11.15	11.25
75.0						12.30	12.35	12.40	12.45	12.50

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	9.89	9.91	9.96	10.03						
15.0	10.17	10.20	10.25	10.32						
20.0	10.46	10.49	10.54	10.62	10.72					
25.0	10.77	10.80	10.86	10.93	11.04	11.17	11.22			
30.0	11.13	11.16	11.22	11.30	11.40	11.53	11.59	11.68	11.77	
35.0	11.56	11.60	11.65	11.73	11.84	11.96	12.02	12.12	12.20	12.29
40.0	12.08	12.12	12.18	12.26	12.36	12.49	12.55	12.64	12.72	12.81
45.0		12.77	12.83	12.91	13.01	13.13	13.19	13.28	13.36	13.45
50.0			13.61	13.69	13.79	13.92	13.97	14.06	14.14	14.23
55.0				14.64	14.74	14.86	14.91	15.00	15.08	15.17
60.0				15.78	15.88	15.99	16.04	16.13	16.21	16.29
65.0					17.22	17.33	17.38	17.47	17.54	17.62
70.0						18.91	18.96	19.04	19.11	19.19
75.0						20.74	20.79	20.86	20.93	21.01

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	56.30	70.50	87.90	109.00						
15.0	55.90	70.40	87.80	108.50						
20.0	55.50	70.10	87.60	108.50	133.50					
25.0	54.80	69.80	87.40	108.50	133.00	162.50	176.00			
30.0	53.90	69.10	87.00	108.00	133.00	162.00	175.50	197.00	217.00	
35.0	52.40	68.10	86.30	107.50	132.50	161.50	174.50	196.00	216.00	237.00
40.0	50.40	66.60	85.20	106.50	131.50	160.50	173.50	195.00	214.00	236.00
45.0		64.40	83.40	105.00	130.50	159.50	172.50	194.00	213.00	234.00
50.0			80.90	103.00	128.50	158.00	171.00	192.00	211.00	232.00
55.0				100.00	126.00	155.50	168.50	190.00	209.00	230.00
60.0				96.10	122.50	152.50	165.50	187.00	206.00	227.00
65.0					117.50	148.00	161.50	183.00	203.00	224.00
70.0						142.50	156.00	178.00	198.00	219.00
75.0						134.50	148.50	171.00	191.50	213.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	36.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	64.9
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	70
Sound Power (MT), dBA	81
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	14.0
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	28.2
Locked Rotor Current, A	140
Winding Resistance, ohm	1.09
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermistor

### **ACCESSORIES OPTIONAL**

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