



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

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
30.0	1.95	2.53	3.22	4.04	5.00	6.12	6.62	7.42		
35.0	1.82	2.38	3.04	3.83	4.75	5.83	6.30	7.07	7.76	
40.0	1.70	2.23	2.86	3.61	4.49	5.52	5.98	6.72	7.38	8.09
45.0		2.07	2.68	3.39	4.23	5.21	5.65	6.35	6.99	7.67
50.0		1.92	2.49	3.16	3.96	4.89	5.31	5.98	6.59	7.23
55.0			2.29	2.93	3.68	4.57	4.96	5.60	6.17	6.79
60.0				2.69	3.40	4.23	4.60	5.21	5.75	6.33
65.0				2.45	3.11	3.89	4.24	4.80	5.31	5.87
70.0					2.81	3.53	3.86	4.39	4.87	5.38
75.0					2.50	3.17	3.47	3.96	4.41	4.89

50 Hz

ZR34K3E-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
30.0	1.10	1.09	1.08	1.06	1.03	1.01	1.00	0.99		
35.0	1.24	1.24	1.22	1.20	1.18	1.15	1.14	1.13	1.12	
40.0	1.40	1.39	1.38	1.35	1.33	1.30	1.30	1.28	1.28	1.28
45.0		1.56	1.55	1.52	1.50	1.48	1.46	1.45	1.44	1.44
50.0		1.76	1.74	1.72	1.68	1.66	1.65	1.64	1.62	1.62
55.0			1.96	1.93	1.90	1.87	1.86	1.84	1.83	1.82
60.0				2.17	2.14	2.10	2.09	2.07	2.06	2.05
65.0				2.44	2.40	2.36	2.35	2.33	2.31	2.30
70.0					2.70	2.66	2.64	2.62	2.60	2.58
75.0					3.03	2.98	2.96	2.94	2.92	2.90

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
30.0	2.91	2.91	2.90	2.88	2.86	2.84	2.83	2.82		
35.0	3.05	3.04	3.03	3.01	3.00	2.98	2.97	2.96	2.95	
40.0	3.21	3.20	3.19	3.17	3.15	3.13	3.12	3.11	3.10	3.10
45.0		3.39	3.37	3.35	3.33	3.31	3.30	3.29	3.28	3.27
50.0		3.62	3.59	3.57	3.54	3.51	3.50	3.49	3.48	3.47
55.0			3.86	3.82	3.79	3.76	3.74	3.73	3.72	3.71
60.0				4.12	4.08	4.04	4.03	4.01	3.99	3.98
65.0				4.48	4.43	4.38	4.36	4.34	4.32	4.30
70.0					4.83	4.77	4.75	4.72	4.70	4.68
75.0					5.30	5.23	5.20	5.17	5.14	5.11

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
30.0	12.80	16.25	20.30	24.90	30.30	36.30	39.00	43.20		
35.0	12.60	16.05	20.10	24.70	30.10	36.20	38.80	43.10	46.80	
40.0	12.35	15.85	19.85	24.50	29.90	36.00	38.60	42.90	46.60	50.60
45.0		15.55	19.60	24.30	29.60	35.70	38.40	42.60	46.40	50.40
50.0		15.25	19.30	24.00	29.30	35.40	38.10	42.30	46.10	50.10
55.0			18.95	23.60	29.00	35.00	37.70	41.90	45.70	49.70
60.0				23.20	28.50	34.60	37.30	41.50	45.30	49.30
65.0				22.70	28.00	34.10	36.70	41.00	44.80	48.80
70.0					27.40	33.50	36.20	40.40	44.20	48.20
75.0					26.80	32.80	35.50	39.70	43.50	47.60

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

Displacement @ 50 Hz, m³/h	8.03
Length/Width, mm	246/246
Height, mm	400
Net Weight, kg	28.5
Gross Weight, kg	30
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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 (HT), dBA	57
Sound Power (HT), dBA	68
Sound Power with Sound Shell (HT), dBA	61
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	2.60
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1430
Refrigerant's classification	A1

### **COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	6.3
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
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## **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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09