



Minimum Evaporating Temp. With:

- 10 K Suction Superheat ASERCOM certified
- 25 °C Suction Gas Return
- 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	2.34	3.03	3.87	4.88	6.04	7.35	7.92	8.83	9.62	10.45
35.0	2.22	2.88	3.69	4.66	5.78	7.06	7.61	8.49	9.27	10.10
40.0	2.08	2.70	3.47	4.39	5.47	6.71	7.24	8.09	8.85	9.64
45.0		2.50	3.22	4.10	5.13	6.31	6.82	7.64	8.37	9.13
50.0			2.96	3.78	4.75	5.88	6.37	7.15	7.85	8.58
55.0				3.45	4.36	5.42	5.88	6.63	7.29	7.99
60.0					3.96	4.95	5.38	6.09	6.71	7.38
65.0					3.56	4.47	4.88	5.53	6.12	6.74
67.0						4.28	4.67	5.31	5.88	6.48

50 Hz

ZR28K3E-TFD

R407C Dew Point

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	1.22	1.21	1.21	1.20	1.20	1.18	1.18	1.16	1.15	1.13
35.0	1.38	1.38	1.38	1.37	1.36	1.34	1.34	1.32	1.30	1.28
40.0	1.56	1.56	1.56	1.56	1.54	1.53	1.52	1.50	1.48	1.46
45.0		1.76	1.76	1.76	1.76	1.74	1.72	1.70	1.68	1.65
50.0			2.00	2.00	1.99	1.96	1.95	1.92	1.90	1.87
55.0				2.26	2.25	2.23	2.21	2.18	2.15	2.12
60.0					2.55	2.52	2.50	2.47	2.44	2.40
65.0					2.88	2.85	2.83	2.80	2.77	2.73
67.0						3.00	2.98	2.94	2.91	2.86

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	2.75	2.74	2.74	2.74	2.73	2.72	2.71	2.69	2.66	2.63
35.0	2.91	2.91	2.91	2.91	2.91	2.89	2.88	2.85	2.83	2.79
40.0	3.11	3.11	3.12	3.12	3.11	3.09	3.08	3.05	3.02	2.98
45.0		3.36	3.37	3.37	3.36	3.34	3.32	3.29	3.26	3.21
50.0			3.67	3.67	3.66	3.63	3.61	3.58	3.54	3.49
55.0				4.02	4.01	3.97	3.95	3.91	3.87	3.81
60.0					4.41	4.37	4.35	4.30	4.25	4.19
65.0					4.88	4.83	4.80	4.75	4.70	4.63
67.0						5.03	5.01	4.95	4.89	4.83

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	13.70	17.40	21.90	27.20	33.10	39.80	42.60	47.10	51.00	55.10
35.0	13.65	17.35	21.90	27.20	33.20	39.90	42.80	47.30	51.30	55.50
40.0	13.45	17.10	21.60	26.90	33.00	39.80	42.70	47.30	51.30	55.50
45.0		16.75	21.20	26.40	32.50	39.30	42.30	46.90	51.00	55.30
50.0			20.60	25.80	31.90	38.70	41.70	46.40	50.50	54.80
55.0				25.10	31.10	38.00	40.90	45.60	49.80	54.10
60.0					30.30	37.10	40.00	44.80	48.90	53.30
65.0					29.40	36.10	39.10	43.80	48.00	52.40
67.0						35.80	38.80	43.50	47.70	52.10

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

Displacement @ 50 Hz, m³/h	6.83
Length/Width, mm	246/246
Height, mm	377
Net Weight, kg	25.4
Gross Weight, kg	29
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.12
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	54
Sound Power (HT), dBA	65
Sound Power with Sound Shell (HT), dBA	58
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	2.90
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	5.1
Locked Rotor Current, A	32
Winding Resistance, ohm	5.94
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