



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	10.0	12.5	15.0
30.0	1.88	2.39	3.02	3.77	4.65	5.66	6.81	7.43	8.08
35.0	1.74	2.24	2.85	3.58	4.45	5.43	6.55	7.15	7.79
40.0	1.60	2.08	2.67	3.38	4.21	5.16	6.25	6.83	7.45
45.0		1.92	2.47	3.15	3.95	4.87	5.91	6.47	7.07
50.0			2.28	2.91	3.67	4.54	5.53	6.07	6.65
55.0				2.67	3.37	4.19	5.13	5.64	6.18
60.0					3.06	3.82	4.70	5.18	5.69
65.0					2.74	3.44	4.24	4.69	5.16
67.0						3.28	4.06	4.49	4.94

50 Hz

ZR22K3E-TFD

R407C Dew Point

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0
30.0	0.95	0.94	0.94	0.94	0.93	0.92	0.91	0.90	0.88
35.0	1.07	1.07	1.07	1.06	1.06	1.05	1.03	1.02	1.00
40.0	1.21	1.21	1.22	1.21	1.20	1.19	1.16	1.15	1.13
45.0		1.37	1.38	1.38	1.36	1.35	1.32	1.30	1.28
50.0			1.56	1.56	1.54	1.53	1.50	1.48	1.46
55.0				1.76	1.75	1.73	1.70	1.68	1.65
60.0					1.98	1.96	1.92	1.90	1.87
65.0					2.24	2.22	2.18	2.15	2.12
67.0						2.33	2.29	2.26	2.23

Cond °C	Current at 380 V, A								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0
30.0	2.13	2.12	2.12	2.11	2.11	2.10	2.08	2.06	2.04
35.0	2.27	2.26	2.26	2.26	2.25	2.24	2.21	2.19	2.16
40.0	2.43	2.43	2.43	2.43	2.42	2.41	2.37	2.35	2.32
45.0		2.62	2.63	2.63	2.63	2.61	2.57	2.54	2.51
50.0			2.87	2.88	2.87	2.85	2.80	2.77	2.73
55.0				3.16	3.15	3.12	3.07	3.04	2.99
60.0					3.47	3.44	3.39	3.35	3.30
65.0					3.85	3.82	3.75	3.71	3.66
67.0						3.98	3.91	3.87	3.82

Cond °C	Suction Mass Flow, g/s								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0
30.0	11.00	13.75	17.10	21.00	25.50	30.70	36.30	39.40	42.60
35.0	10.70	13.45	16.90	20.90	25.50	30.70	36.50	39.60	42.90
40.0	10.35	13.15	16.60	20.70	25.30	30.60	36.50	39.60	42.90
45.0		12.80	16.25	20.30	25.00	30.40	36.30	39.50	42.80
50.0			15.85	19.90	24.60	29.90	35.90	39.10	42.40
55.0				19.40	24.10	29.40	35.30	38.50	41.90
60.0					23.40	28.70	34.60	37.70	41.10
65.0					22.70	27.80	33.60	36.80	40.10
67.0						27.40	33.20	36.40	39.70

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	5.34
Length/Width, mm	242/242
Height, mm	363
Net Weight, kg	22
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1
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: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
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	4.2
Locked Rotor Current, A	24
Winding Resistance, ohm	8.64
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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50 Hz

ZR22K3E-TFD

R407C Dew Point

**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	380		Y	1.00