



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	1.23	1.60	2.05	2.60	3.25	4.02	4.36	4.90		
35.0	1.14	1.50	1.94	2.46	3.08	3.81	4.13	4.65	5.12	
40.0	1.06	1.40	1.82	2.32	2.91	3.60	3.91	4.40	4.84	5.32
45.0		1.29	1.69	2.17	2.74	3.40	3.69	4.16	4.58	5.02
50.0		1.16	1.56	2.02	2.56	3.18	3.46	3.91	4.30	4.73
55.0			1.40	1.84	2.36	2.96	3.23	3.65	4.03	4.43
60.0				1.66	2.16	2.73	2.98	3.38	3.74	4.12
65.0				1.46	1.93	2.47	2.71	3.10	3.44	3.80
70.0					1.68	2.20	2.43	2.79	3.12	3.46
75.0					1.41	1.90	2.12	2.47	2.77	3.10

50 Hz

ZR22K3E-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	0.72	0.72	0.71	0.70	0.69	0.67	0.66	0.64		
35.0	0.81	0.80	0.80	0.79	0.78	0.76	0.76	0.74	0.73	
40.0	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.82
45.0		1.03	1.02	1.01	1.00	0.98	0.97	0.96	0.95	0.94
50.0		1.18	1.16	1.14	1.12	1.11	1.10	1.09	1.08	1.07
55.0			1.32	1.29	1.27	1.26	1.25	1.24	1.22	1.21
60.0				1.46	1.44	1.42	1.40	1.39	1.38	1.36
65.0				1.66	1.63	1.60	1.59	1.57	1.56	1.54
70.0					1.85	1.81	1.80	1.78	1.76	1.74
75.0					2.10	2.05	2.03	2.00	1.98	1.96

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	1.81	1.79	1.79	1.79	1.79	1.77	1.76	1.74		
35.0	1.91	1.89	1.88	1.88	1.88	1.87	1.86	1.84	1.82	
40.0	2.03	2.00	1.99	1.98	1.98	1.98	1.97	1.96	1.94	1.92
45.0		2.15	2.12	2.11	2.11	2.10	2.09	2.08	2.07	2.05
50.0		2.33	2.29	2.27	2.26	2.25	2.24	2.23	2.21	2.20
55.0			2.49	2.46	2.44	2.42	2.42	2.40	2.39	2.37
60.0				2.69	2.66	2.63	2.62	2.61	2.59	2.57
65.0				2.97	2.92	2.88	2.87	2.85	2.83	2.81
70.0					3.23	3.18	3.16	3.13	3.11	3.08
75.0					3.59	3.52	3.50	3.46	3.43	3.40

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	8.05	10.25	12.90	16.05	19.70	23.90	25.70	28.60		
35.0	7.91	10.10	12.75	15.90	19.55	23.70	25.50	28.30	30.90	
40.0	7.70	9.95	12.60	15.75	19.35	23.50	25.30	28.10	30.60	33.30
45.0		9.69	12.40	15.55	19.15	23.30	25.00	27.90	30.40	33.00
50.0		9.31	12.10	15.30	18.95	23.00	24.80	27.60	30.10	32.70
55.0			11.65	14.90	18.60	22.70	24.50	27.30	29.80	32.40
60.0				14.35	18.10	22.30	24.10	26.90	29.50	32.10
65.0				13.50	17.40	21.70	23.50	26.40	29.00	31.60
70.0					16.45	20.90	22.80	25.70	28.30	31.00
75.0					15.10	19.75	21.70	24.70	27.40	30.20

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.34
Length/Width, mm	242/242
Height, mm	363
Net Weight, kg	22
Gross Weight, kg	26
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:	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	1430
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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MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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