



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
27.0	4.10	5.13	6.33	7.70	9.28	11.05	11.85	13.10	14.20
30.0	3.98	4.98	6.15	7.50	9.04	10.80	11.55	12.80	13.85
35.0	3.76	4.73	5.85	7.15	8.63	10.35	11.05	12.25	13.30
40.0	3.54	4.47	5.55	6.79	8.22	9.85	10.55	11.70	12.70
45.0		4.21	5.23	6.42	7.79	9.35	10.05	11.15	12.10
50.0			4.91	6.04	7.35	8.84	9.50	10.55	11.50
55.0			4.58	5.65	6.89	8.32	8.95	9.96	10.85
60.0				5.25	6.42	7.78	8.38	9.34	10.20
65.0					5.94	7.22	7.79	8.71	9.53

50 Hz

ZR40K3E-TFD

R22

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	1.66	1.66	1.64	1.62	1.60	1.57	1.56	1.54	1.53
30.0	1.78	1.78	1.76	1.74	1.72	1.70	1.68	1.67	1.66
35.0	2.00	2.00	1.99	1.97	1.94	1.92	1.91	1.89	1.88
40.0	2.24	2.24	2.23	2.21	2.19	2.16	2.15	2.13	2.12
45.0		2.51	2.50	2.48	2.46	2.43	2.42	2.40	2.38
50.0			2.80	2.78	2.76	2.73	2.71	2.69	2.67
55.0			3.14	3.12	3.09	3.06	3.04	3.02	3.00
60.0				3.50	3.47	3.43	3.41	3.38	3.36
65.0					3.88	3.84	3.82	3.79	3.77

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
27.0	3.68	3.67	3.65	3.62	3.60	3.57	3.57	3.56	3.56
30.0	3.82	3.81	3.79	3.76	3.73	3.70	3.69	3.68	3.67
35.0	4.06	4.06	4.04	4.01	3.98	3.94	3.93	3.91	3.90
40.0	4.33	4.34	4.33	4.30	4.27	4.23	4.21	4.19	4.17
45.0		4.66	4.65	4.64	4.60	4.56	4.54	4.51	4.49
50.0			5.03	5.01	4.98	4.94	4.92	4.89	4.86
55.0			5.45	5.45	5.42	5.38	5.36	5.33	5.30
60.0				5.94	5.92	5.88	5.86	5.83	5.80
65.0					6.48	6.45	6.43	6.40	6.37

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
27.0	23.90	29.60	36.00	43.30	51.50	60.80	64.80	71.20	76.80
30.0	23.70	29.30	35.80	43.00	51.30	60.60	64.60	70.90	76.50
35.0	23.30	29.00	35.30	42.60	50.80	60.10	64.10	70.50	76.10
40.0	22.90	28.50	34.90	42.10	50.30	59.60	63.60	70.00	75.60
45.0		28.00	34.40	41.60	49.70	59.00	63.00	69.40	75.00
50.0			33.80	40.90	49.10	58.30	62.30	68.70	74.40
55.0			33.10	40.20	48.30	57.50	61.50	67.90	73.60
60.0				39.30	47.40	56.60	60.60	67.00	72.70
65.0					46.40	55.60	59.60	66.00	71.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	9.43
Length/Width, mm	242/242
Height, mm	400
Net Weight, kg	27
Gross Weight, kg	31
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.1
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	57
Sound Power (HT), dBA	68
Sound Power with Sound Shell (HT), dBA	60
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	3.10
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	7
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
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