



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	2.22	2.92	3.76	4.72	5.83	7.09	7.64	8.50		
35.0	2.01	2.69	3.50	4.44	5.52	6.75	7.28	8.13	8.89	
40.0	1.83	2.48	3.25	4.16	5.21	6.41	6.93	7.76	8.49	9.27
45.0		2.28	3.01	3.88	4.90	6.06	6.56	7.37	8.09	8.85
50.0		2.08	2.78	3.61	4.58	5.70	6.19	6.97	7.67	8.40
55.0			2.55	3.33	4.25	5.33	5.80	6.55	7.22	7.93
60.0				3.04	3.91	4.93	5.38	6.10	6.74	7.43
65.0				2.73	3.55	4.51	4.93	5.62	6.23	6.89
70.0					3.16	4.06	4.46	5.10	5.69	6.31
75.0					2.74	3.57	3.94	4.54	5.09	5.68

50 Hz

ZR40K3E-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	1.20	1.17	1.16	1.14	1.14	1.14	1.13	1.12		
35.0	1.40	1.36	1.34	1.32	1.32	1.32	1.32	1.31	1.30	
40.0	1.62	1.56	1.53	1.51	1.50	1.50	1.50	1.49	1.49	1.48
45.0		1.78	1.73	1.70	1.69	1.68	1.68	1.68	1.68	1.68
50.0		2.01	1.96	1.92	1.90	1.89	1.89	1.88	1.88	1.88
55.0			2.21	2.16	2.13	2.12	2.12	2.11	2.11	2.11
60.0				2.44	2.40	2.38	2.37	2.37	2.37	2.37
65.0				2.76	2.71	2.68	2.67	2.67	2.66	2.66
70.0					3.07	3.03	3.02	3.01	3.00	3.00
75.0					3.48	3.44	3.42	3.41	3.40	3.39

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	3.19	3.15	3.10	3.05	3.01	2.98	2.98	2.99		
35.0	3.44	3.41	3.35	3.30	3.24	3.19	3.18	3.16	3.16	
40.0	3.66	3.63	3.59	3.53	3.46	3.39	3.37	3.34	3.32	3.30
45.0		3.85	3.81	3.75	3.68	3.61	3.58	3.53	3.50	3.47
50.0		4.06	4.04	4.00	3.93	3.85	3.81	3.76	3.72	3.68
55.0			4.30	4.27	4.21	4.13	4.09	4.04	3.99	3.94
60.0				4.59	4.55	4.47	4.44	4.38	4.33	4.28
65.0				4.98	4.96	4.90	4.86	4.81	4.76	4.71
70.0					5.45	5.41	5.39	5.34	5.29	5.24
75.0					6.06	6.04	6.03	5.99	5.95	5.90

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	14.55	18.80	23.70	29.20	35.30	42.10	45.00	49.60		
35.0	13.90	18.15	23.10	28.70	35.00	41.90	44.90	49.50	53.60	
40.0	13.30	17.60	22.60	28.20	34.60	41.70	44.70	49.50	53.70	58.00
45.0		17.10	22.10	27.80	34.30	41.50	44.60	49.40	53.70	58.10
50.0		16.65	21.60	27.40	33.90	41.20	44.40	49.30	53.60	58.20
55.0			21.10	26.90	33.40	40.80	44.00	49.10	53.50	58.10
60.0				26.20	32.80	40.30	43.50	48.60	53.10	57.80
65.0				25.40	32.00	39.50	42.80	48.00	52.50	57.30
70.0					30.90	38.50	41.80	47.00	51.60	56.50
75.0					29.40	37.00	40.30	45.60	50.30	55.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	1430
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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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