



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	2.72	3.57	4.55	5.70	7.05	8.64	9.35	10.50		
35.0	2.52	3.34	4.30	5.40	6.70	8.22	8.90	9.99	11.00	
40.0	2.29	3.10	4.03	5.09	6.33	7.78	8.43	9.47	10.40	11.45
45.0		2.84	3.73	4.76	5.94	7.32	7.94	8.93	9.83	10.80
50.0		2.55	3.42	4.41	5.54	6.85	7.43	8.38	9.23	10.15
55.0			3.09	4.04	5.12	6.36	6.91	7.81	8.61	9.48
60.0				3.65	4.68	5.86	6.38	7.22	7.98	8.80
65.0				3.25	4.23	5.34	5.83	6.62	7.34	8.11
70.0					3.76	4.81	5.27	6.01	6.68	7.40
75.0					3.28	4.26	4.69	5.38	6.01	6.68

50 Hz		ZR48K3E-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	1.39	1.39	1.40	1.41	1.42	1.40	1.39	1.36			
35.0	1.60	1.59	1.60	1.60	1.62	1.62	1.61	1.60	1.58		
40.0	1.84	1.81	1.80	1.80	1.82	1.82	1.83	1.83	1.82	1.82	
45.0		2.06	2.03	2.02	2.03	2.04	2.05	2.06	2.06	2.06	
50.0		2.35	2.30	2.28	2.27	2.28	2.29	2.30	2.31	2.32	
55.0			2.62	2.57	2.56	2.56	2.56	2.57	2.58	2.60	
60.0				2.93	2.89	2.88	2.88	2.89	2.90	2.91	
65.0				3.36	3.29	3.26	3.25	3.25	3.26	3.27	
70.0					3.77	3.71	3.70	3.68	3.68	3.69	
75.0					4.34	4.24	4.22	4.19	4.18	4.18	
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	3.58	3.58	3.58	3.59	3.59	3.57	3.55	3.52			
35.0	3.77	3.76	3.76	3.78	3.79	3.79	3.79	3.77	3.75		
40.0	4.02	3.98	3.97	3.98	4.00	4.02	4.02	4.02	4.02	4.01	
45.0		4.26	4.23	4.22	4.24	4.26	4.27	4.28	4.29	4.29	
50.0		4.61	4.55	4.53	4.53	4.55	4.56	4.58	4.59	4.60	
55.0			4.96	4.90	4.89	4.89	4.90	4.92	4.94	4.95	
60.0				5.38	5.33	5.32	5.32	5.33	5.34	5.36	
65.0				5.96	5.87	5.83	5.82	5.82	5.83	5.84	
70.0					6.54	6.46	6.44	6.42	6.42	6.42	
75.0					7.34	7.21	7.18	7.14	7.12	7.11	
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	17.90	22.90	28.60	35.20	42.70	51.30	55.10	61.20			
35.0	17.35	22.60	28.40	34.90	42.40	51.00	54.80	60.90	66.30		
40.0	16.65	22.00	28.00	34.60	42.10	50.70	54.40	60.40	65.80	71.60	
45.0		21.30	27.40	34.10	41.60	50.20	53.90	59.90	65.20	70.90	
50.0		20.30	26.60	33.40	41.00	49.60	53.30	59.20	64.60	70.20	
55.0			25.60	32.60	40.20	48.80	52.50	58.50	63.80	69.40	
60.0				31.50	39.30	47.90	51.60	57.60	62.90	68.50	
65.0				30.20	38.10	46.80	50.60	56.50	61.80	67.40	
70.0					36.80	45.60	49.40	55.40	60.70	66.30	
75.0					35.10	44.10	48.00	54.00	59.40	65.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.4
Length/Width, mm	246/246
Height, mm	431
Net Weight, kg	32.7
Gross Weight, kg	32.7
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.36
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	62
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	3.40
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	10
Locked Rotor Current, A	50
Winding Resistance, ohm	3.88
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