



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	4.87	6.15	7.60	9.24	11.10	13.25	14.15	15.65	17.00
30.0	4.73	5.99	7.42	9.04	10.90	13.00	13.90	15.35	16.70
35.0	4.46	5.70	7.09	8.66	10.45	12.50	13.40	14.80	16.10
40.0	4.17	5.37	6.72	8.24	9.98	11.95	12.80	14.20	15.45
45.0		5.03	6.32	7.79	9.46	11.35	12.20	13.55	14.75
50.0			5.91	7.31	8.91	10.75	11.55	12.80	13.95
55.0			5.49	6.81	8.33	10.05	10.85	12.05	13.15
60.0				6.31	7.74	9.38	10.10	11.25	12.30
65.0					7.14	8.69	9.37	10.45	11.45

50 Hz

ZR48K3E-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	2.14	2.15	2.14	2.11	2.06	1.98	1.94	1.88	1.81
30.0	2.29	2.30	2.30	2.27	2.23	2.16	2.12	2.06	2.01
35.0	2.56	2.57	2.56	2.54	2.51	2.45	2.42	2.37	2.32
40.0	2.85	2.85	2.84	2.83	2.80	2.75	2.72	2.68	2.63
45.0		3.17	3.16	3.14	3.11	3.06	3.04	3.00	2.96
50.0			3.52	3.49	3.46	3.42	3.39	3.36	3.32
55.0			3.94	3.90	3.87	3.82	3.80	3.76	3.73
60.0				4.39	4.34	4.29	4.27	4.23	4.19
65.0					4.90	4.84	4.82	4.77	4.74

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	4.77	4.79	4.79	4.76	4.71	4.60	4.54	4.44	4.34
30.0	4.92	4.94	4.94	4.92	4.87	4.77	4.72	4.63	4.53
35.0	5.21	5.21	5.21	5.19	5.15	5.07	5.02	4.94	4.86
40.0	5.53	5.53	5.52	5.50	5.47	5.39	5.36	5.28	5.21
45.0		5.90	5.89	5.86	5.83	5.76	5.73	5.66	5.60
50.0			6.32	6.29	6.25	6.19	6.16	6.10	6.04
55.0			6.84	6.80	6.75	6.69	6.66	6.61	6.55
60.0				7.40	7.35	7.28	7.25	7.20	7.15
65.0					8.05	7.98	7.95	7.90	7.84

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	28.40	35.40	43.20	51.90	61.70	72.70	77.50	85.20	92.00
30.0	28.20	35.30	43.10	51.90	61.70	72.80	77.70	85.30	92.20
35.0	27.70	34.90	42.80	51.60	61.60	72.70	77.60	85.30	92.20
40.0	27.00	34.30	42.20	51.10	61.10	72.30	77.20	85.00	91.90
45.0		33.50	41.50	50.40	60.40	71.70	76.50	84.30	91.30
50.0			40.60	49.50	59.50	70.70	75.60	83.40	90.40
55.0			39.60	48.50	58.40	69.60	74.50	82.30	89.20
60.0				47.30	57.20	68.30	73.10	80.90	87.80
65.0					55.90	66.90	71.70	79.40	86.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	1810
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

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermodisk

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