



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	2.19	2.77	3.45	4.23	5.11	6.12	6.56	7.26	7.88
30.0	2.10	2.67	3.33	4.08	4.95	5.93	6.36	7.03	7.64
35.0	1.98	2.52	3.15	3.87	4.70	5.64	6.04	6.69	7.27
40.0	1.85	2.38	2.98	3.68	4.47	5.37	5.76	6.38	6.93
45.0		2.22	2.81	3.48	4.24	5.10	5.48	6.07	6.60
50.0			2.61	3.26	4.00	4.83	5.19	5.76	6.26
55.0			2.37	3.00	3.72	4.52	4.87	5.42	5.91
60.0				2.69	3.39	4.17	4.50	5.04	5.51
65.0					2.99	3.75	4.08	4.59	5.05

50 Hz

ZR22K3E-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	0.92	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83
30.0	0.99	0.99	0.98	0.98	0.96	0.95	0.95	0.94	0.94
35.0	1.12	1.12	1.12	1.11	1.10	1.10	1.10	1.10	1.10
40.0	1.28	1.28	1.27	1.26	1.25	1.24	1.24	1.25	1.25
45.0		1.46	1.44	1.42	1.40	1.40	1.40	1.40	1.40
50.0			1.65	1.62	1.60	1.58	1.58	1.57	1.58
55.0			1.92	1.88	1.83	1.80	1.80	1.78	1.78
60.0				2.20	2.13	2.08	2.07	2.05	2.04
65.0					2.51	2.44	2.41	2.38	2.36

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	2.22	2.22	2.21	2.19	2.16	2.14	2.13	2.11	2.10
30.0	2.30	2.30	2.29	2.28	2.26	2.25	2.24	2.23	2.23
35.0	2.45	2.45	2.44	2.43	2.42	2.41	2.41	2.41	2.41
40.0	2.63	2.62	2.60	2.59	2.58	2.57	2.58	2.58	2.59
45.0		2.84	2.81	2.78	2.76	2.75	2.75	2.76	2.76
50.0			3.07	3.02	2.99	2.97	2.96	2.96	2.97
55.0			3.41	3.34	3.28	3.24	3.23	3.22	3.22
60.0				3.75	3.66	3.59	3.57	3.55	3.53
65.0					4.14	4.04	4.01	3.96	3.93

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	12.75	15.95	19.60	23.70	28.40	33.60	35.90	39.50	42.60
30.0	12.55	15.75	19.35	23.50	28.10	33.30	35.50	39.00	42.20
35.0	12.25	15.45	19.05	23.10	27.70	32.80	35.00	38.50	41.60
40.0	11.95	15.15	18.75	22.80	27.40	32.50	34.70	38.10	41.20
45.0		14.80	18.45	22.50	27.10	32.20	34.40	37.80	40.90
50.0			17.95	22.10	26.70	31.80	34.00	37.50	40.50
55.0			17.10	21.40	26.10	31.20	33.50	37.00	40.00
60.0				20.20	25.00	30.30	32.60	36.10	39.30
65.0					23.40	28.90	31.20	34.80	38.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	1810
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

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