



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	3.46	4.54	5.80	7.27	8.99	11.00	11.90	13.35		
35.0	3.24	4.29	5.49	6.90	8.54	10.45	11.35	12.70	13.95	
40.0	3.03	4.03	5.18	6.53	8.10	9.94	10.75	12.10	13.30	14.60
45.0		3.77	4.87	6.15	7.64	9.40	10.20	11.45	12.60	13.85
50.0		3.51	4.55	5.76	7.18	8.84	9.59	10.80	11.90	13.05
55.0			4.23	5.37	6.71	8.28	8.98	10.10	11.15	12.30
60.0				4.96	6.22	7.70	8.36	9.43	10.40	11.45
65.0				4.53	5.71	7.09	7.71	8.72	9.64	10.65
70.0					5.17	6.46	7.04	7.98	8.84	9.78
75.0					4.62	5.80	6.33	7.21	8.01	8.88

50 Hz

ZR61KCE-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	1.67	1.71	1.74	1.75	1.76	1.78	1.79	1.80		
35.0	1.86	1.90	1.92	1.94	1.96	1.98	2.00	2.01	2.03	
40.0	2.07	2.11	2.14	2.16	2.18	2.20	2.22	2.24	2.26	2.28
45.0		2.35	2.38	2.40	2.42	2.45	2.46	2.48	2.50	2.53
50.0		2.62	2.65	2.67	2.69	2.71	2.73	2.75	2.77	2.79
55.0			2.96	2.98	2.99	3.01	3.03	3.05	3.07	3.09
60.0				3.32	3.34	3.35	3.36	3.38	3.40	3.42
65.0				3.72	3.73	3.74	3.75	3.76	3.78	3.80
70.0					4.17	4.17	4.18	4.19	4.20	4.22
75.0					4.67	4.66	4.67	4.67	4.68	4.70

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	4.80	4.85	4.87	4.87	4.86	4.86	4.86	4.87		
35.0	4.82	4.89	4.93	4.94	4.94	4.95	4.95	4.96	4.97	
40.0	4.92	5.01	5.06	5.09	5.10	5.11	5.11	5.12	5.14	5.16
45.0		5.20	5.27	5.31	5.33	5.34	5.35	5.36	5.37	5.39
50.0		5.46	5.54	5.59	5.62	5.64	5.65	5.66	5.68	5.69
55.0			5.89	5.95	5.99	6.01	6.02	6.03	6.05	6.06
60.0				6.37	6.41	6.44	6.45	6.47	6.48	6.50
65.0				6.85	6.90	6.94	6.95	6.97	6.98	7.00
70.0					7.45	7.49	7.51	7.52	7.54	7.55
75.0					8.05	8.10	8.12	8.14	8.15	8.16

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	22.70	29.20	36.50	44.80	54.40	65.30	70.10	77.70		
35.0	22.40	28.90	36.30	44.60	54.10	65.00	69.80	77.40	84.30	
40.0	22.00	28.60	36.00	44.30	53.80	64.70	69.50	77.10	83.90	91.20
45.0		28.30	35.70	44.00	53.50	64.40	69.10	76.70	83.60	90.90
50.0		28.00	35.40	43.70	53.20	64.00	68.70	76.30	83.10	90.40
55.0			35.00	43.30	52.70	63.50	68.20	75.80	82.60	89.90
60.0				42.80	52.20	62.90	67.60	75.20	82.00	89.30
65.0				42.10	51.50	62.20	66.90	74.40	81.20	88.50
70.0					50.60	61.30	65.90	73.50	80.30	87.60
75.0					49.40	60.10	64.80	72.30	79.10	86.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	14.3
Length/Width, mm	246/246
Height, mm	451
Net Weight, kg	39.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.66
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	60
Sound Power (HT), dBA	71
Sound Power with Sound Shell (HT), dBA	67
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.10
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	11
Locked Rotor Current, A	65.5
Winding Resistance, ohm	2.75
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