



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	4.30	5.69	7.39	9.44	11.90	14.75					
25.0	3.99	5.31	6.92	8.86	11.20	13.95					
30.0	3.71	4.95	6.47	8.32	10.50	13.15	16.20	17.55			
35.0	3.44	4.62	6.06	7.80	9.89	12.35	15.25	16.55	18.65		
40.0	3.20	4.31	5.66	7.31	9.28	11.60	14.40	15.60	17.60	19.35	21.30
45.0	2.99	4.03	5.30	6.84	8.70	10.90	13.50	14.70	16.55	18.25	20.10
50.0	2.79	3.77	4.95	6.40	8.14	10.20	12.70	13.80	15.55	17.15	18.90
55.0	2.62	3.53	4.63	5.98	7.61	9.56	11.85	12.90	14.60	16.10	17.75
60.0		3.31	4.33	5.58	7.10	8.92	11.10	12.05	13.65	15.05	16.60
65.0			4.05	5.21	6.61	8.30	10.30	11.25	12.70	14.05	15.50
70.0				4.85	6.14	7.70	9.57	10.40	11.80	13.05	14.40
75.0				4.51	5.69	7.12	8.85	9.63	10.90	12.10	13.35

50 Hz

ZH56K4E-TWD

R134a

Cond °C	Power, kW										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	2.48	2.57	2.67	2.77	2.88	3.00					
25.0	2.60	2.70	2.80	2.90	3.02	3.14					
30.0	2.72	2.83	2.94	3.05	3.17	3.30	3.45	3.51			
35.0	2.85	2.97	3.09	3.22	3.35	3.49	3.64	3.71	3.81		
40.0	2.99	3.13	3.27	3.40	3.55	3.70	3.86	3.93	4.04	4.13	4.23
45.0	3.13	3.30	3.45	3.61	3.77	3.93	4.11	4.18	4.30	4.40	4.51
50.0	3.29	3.48	3.66	3.84	4.02	4.20	4.39	4.47	4.60	4.71	4.82
55.0	3.47	3.68	3.89	4.09	4.29	4.50	4.71	4.80	4.94	5.05	5.18
60.0		3.90	4.14	4.37	4.60	4.83	5.07	5.17	5.31	5.44	5.57
65.0			4.41	4.68	4.94	5.20	5.46	5.57	5.73	5.88	6.02
70.0				5.01	5.31	5.60	5.90	6.02	6.20	6.35	6.51
75.0				5.38	5.71	6.04	6.37	6.51	6.71	6.88	7.05

Cond °C	Current at 400 V, A										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	9.78	9.83	9.89	9.95	10.01	10.09					
25.0	9.85	9.91	9.97	10.03	10.10	10.18					
30.0	9.93	9.99	10.06	10.12	10.20	10.28	10.38	10.42			
35.0	10.00	10.07	10.15	10.23	10.31	10.40	10.51	10.55	10.62		
40.0	10.08	10.16	10.25	10.34	10.44	10.54	10.66	10.71	10.79	10.86	10.93
45.0	10.17	10.27	10.37	10.48	10.59	10.71	10.84	10.90	10.98	11.06	11.14
50.0	10.27	10.39	10.51	10.64	10.77	10.91	11.05	11.12	11.21	11.30	11.39
55.0	10.39	10.54	10.68	10.83	10.98	11.14	11.31	11.38	11.49	11.58	11.68
60.0		10.71	10.88	11.05	11.23	11.41	11.60	11.68	11.81	11.91	12.02
65.0			11.11	11.31	11.51	11.72	11.94	12.03	12.17	12.29	12.42
70.0				11.61	11.84	12.09	12.33	12.44	12.60	12.73	12.87
75.0				11.96	12.23	12.50	12.78	12.90	13.08	13.23	13.39

Cond °C	Suction Mass Flow, g/s										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	26.30	34.10	43.40	54.50	67.30	82.10					
25.0	25.60	33.30	42.50	53.40	66.10	80.70					
30.0	24.90	32.50	41.60	52.40	64.90	79.50	96.10	103.50			
35.0	24.30	31.90	40.90	51.50	63.90	78.30	94.80	102.00	113.50		
40.0	23.90	31.40	40.30	50.80	63.00	77.30	93.60	101.00	112.00	122.50	133.00
45.0	23.60	31.00	39.80	50.20	62.30	76.40	92.60	99.70	111.00	121.00	132.00
50.0	23.50	30.90	39.50	49.70	61.70	75.60	91.70	98.70	110.00	120.00	131.00
55.0	23.60	30.90	39.40	49.50	61.40	75.10	91.00	98.00	109.00	119.00	130.00
60.0		31.20	39.60	49.60	61.20	74.80	90.60	97.50	108.50	118.50	129.50
65.0			40.10	49.90	61.40	74.90	90.50	97.40	108.50	118.50	129.00
70.0				50.60	62.00	75.30	90.80	97.60	108.50	118.50	129.00
75.0				51.90	63.10	76.30	91.70	98.50	109.50	119.50	130.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	20.9
Length/Width, mm	357/321
Height, mm	497
Net Weight, kg	93
Gross Weight, kg	100
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	4
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	220 x 220 (8.5)
Sound Pressure @ 1m (HT), dBA	72
Sound Power (HT), dBA	83
Sound Power with Sound Shell (HT), dBA	73
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	17.0
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

50 Hz

ZH56K4E-TWD

R134a

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	17
Locked Rotor Current, A	99
Winding Resistance, ohm	1.41
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Sound Attenuation	Sound Shell (10dBA)
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MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWR	220-240 V / 3~ / 50 Hz	230		Y	1.73