



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	7.77	9.99	12.70	16.00	19.90	24.50					
25.0	7.40	9.56	12.20	15.35	19.15	23.60					
30.0	7.03	9.11	11.65	14.70	18.35	22.60	27.60	29.90			
35.0	6.64	8.65	11.10	14.00	17.50	21.60	26.40	28.50	32.00		
40.0	6.26	8.17	10.50	13.30	16.60	20.50	25.10	27.20	30.50	33.40	36.60
45.0	5.87	7.69	9.89	12.55	15.70	19.45	23.80	25.80	28.90	31.80	34.80
50.0	5.48	7.19	9.27	11.75	14.75	18.30	22.50	24.30	27.30	30.00	32.90
55.0	5.09	6.70	8.64	11.00	13.80	17.15	21.10	22.80	25.70	28.20	31.00
60.0		6.21	8.01	10.20	12.80	15.95	19.65	21.30	24.00	26.40	29.00
65.0			7.37	9.37	11.80	14.70	18.15	19.70	22.20	24.50	27.00
70.0				8.55	10.75	13.45	16.65	18.10	20.40	22.60	24.90
75.0				7.72	9.72	12.15	15.10	16.45	18.60	20.60	22.70

50 Hz

ZH92K4E-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	3.48	3.66	3.83	4.00	4.16	4.32					
25.0	3.73	3.93	4.13	4.31	4.49	4.67					
30.0	3.98	4.21	4.44	4.65	4.85	5.05	5.24	5.32			
35.0	4.23	4.50	4.76	5.00	5.23	5.45	5.67	5.75	5.88		
40.0	4.49	4.80	5.09	5.37	5.63	5.88	6.13	6.22	6.37	6.49	6.61
45.0	4.76	5.11	5.44	5.76	6.06	6.34	6.62	6.73	6.89	7.02	7.16
50.0	5.04	5.43	5.81	6.17	6.51	6.83	7.15	7.27	7.45	7.60	7.75
55.0	5.32	5.77	6.20	6.60	6.99	7.36	7.71	7.85	8.06	8.23	8.39
60.0		6.12	6.60	7.06	7.49	7.91	8.31	8.47	8.70	8.89	9.08
65.0			7.02	7.54	8.03	8.50	8.95	9.13	9.39	9.60	9.81
70.0				8.04	8.59	9.12	9.63	9.82	10.10	10.35	10.60
75.0				8.57	9.18	9.77	10.35	10.55	10.90	11.15	11.40

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	10.08	10.23	10.38	10.52	10.66	10.80					
25.0	10.29	10.47	10.64	10.81	10.97	11.13					
30.0	10.51	10.72	10.92	11.11	11.31	11.50	11.69	11.77			
35.0	10.73	10.98	11.22	11.45	11.68	11.91	12.14	12.23	12.36		
40.0	10.97	11.26	11.54	11.82	12.09	12.36	12.63	12.74	12.89	13.03	13.16
45.0	11.22	11.56	11.90	12.23	12.55	12.87	13.18	13.30	13.49	13.65	13.80
50.0	11.49	11.89	12.28	12.67	13.05	13.42	13.79	13.93	14.15	14.33	14.51
55.0	11.78	12.25	12.71	13.16	13.60	14.03	14.46	14.63	14.88	15.09	15.30
60.0		12.64	13.17	13.69	14.20	14.71	15.20	15.40	15.69	15.93	16.18
65.0			13.68	14.28	14.87	15.44	16.01	16.24	16.57	16.85	17.13
70.0				14.92	15.59	16.25	16.90	17.16	17.54	17.86	18.17
75.0				15.62	16.38	17.13	17.86	18.15	18.59	18.95	19.31

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	47.50	59.90	74.80	92.30	113.00	136.50					
25.0	47.40	59.90	74.90	92.50	113.00	137.00					
30.0	47.20	59.90	74.90	92.60	113.00	137.00	164.00	176.00			
35.0	46.90	59.70	74.80	92.50	113.00	137.00	164.00	176.00	195.00		
40.0	46.70	59.50	74.60	92.30	113.00	136.50	163.50	175.50	194.50	211.00	229.00
45.0	46.40	59.20	74.30	92.00	112.50	136.00	163.00	175.00	194.00	211.00	229.00
50.0	46.10	58.90	74.00	91.50	112.00	135.50	162.50	174.50	193.50	210.00	228.00
55.0	46.00	58.70	73.60	91.00	111.00	134.50	161.50	173.50	192.50	209.00	227.00
60.0		58.50	73.20	90.40	110.50	133.50	160.50	172.00	191.00	208.00	226.00
65.0			72.80	89.70	109.50	132.50	159.00	171.00	189.50	206.00	224.00
70.0				89.20	108.50	131.50	158.00	169.50	188.00	205.00	223.00
75.0				88.80	108.00	130.00	156.50	168.00	186.50	203.00	221.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	35.6
Length/Width, mm	356/320
Height, mm	505
Net Weight, kg	95
Gross Weight, kg	101
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	4.14
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	17.4
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

ZH92K4E-TWD

R134a

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

Maximum Operating Current, A	25
Locked Rotor Current, A	167
Winding Resistance, ohm	0.83
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