



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	9.72	12.55	16.00	20.20	25.20	31.00					
25.0	9.14	11.85	15.10	19.10	23.90	29.50					
30.0	8.58	11.15	14.30	18.05	22.60	28.00	34.30	37.10			
35.0	8.06	10.50	13.45	17.05	21.40	26.50	32.60	35.20	39.60		
40.0	7.55	9.84	12.65	16.05	20.20	25.00	30.80	33.40	37.50	41.20	45.30
45.0	7.07	9.23	11.85	15.10	18.95	23.60	29.00	31.50	35.40	39.00	42.80
50.0	6.62	8.64	11.10	14.10	17.75	22.10	27.30	29.60	33.40	36.80	40.40
55.0	6.19	8.06	10.35	13.15	16.60	20.70	25.60	27.70	31.30	34.50	38.00
60.0		7.51	9.64	12.25	15.40	19.25	23.80	25.90	29.20	32.30	35.60
65.0			8.93	11.35	14.25	17.85	22.10	24.00	27.20	30.10	33.20
70.0				10.45	13.10	16.40	20.40	22.20	25.10	27.80	30.70
75.0				9.54	12.00	15.00	18.65	20.30	23.10	25.60	28.30

50 Hz

ZH11M4E-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	4.38	4.59	4.78	4.96	5.12	5.25					
25.0	4.67	4.91	5.13	5.35	5.54	5.71					
30.0	4.95	5.22	5.49	5.74	5.97	6.19	6.39	6.46			
35.0	5.23	5.54	5.84	6.14	6.42	6.68	6.93	7.03	7.16		
40.0	5.51	5.87	6.21	6.55	6.88	7.20	7.50	7.61	7.78	7.92	8.04
45.0	5.81	6.20	6.60	6.98	7.36	7.73	8.09	8.23	8.43	8.59	8.76
50.0	6.11	6.55	7.00	7.44	7.87	8.30	8.71	8.87	9.11	9.31	9.50
55.0	6.43	6.92	7.42	7.92	8.41	8.89	9.37	9.56	9.84	10.05	10.30
60.0		7.32	7.87	8.42	8.97	9.52	10.05	10.30	10.60	10.85	11.10
65.0			8.35	8.96	9.58	10.20	10.80	11.05	11.40	11.70	12.00
70.0				9.54	10.20	10.90	11.60	11.85	12.25	12.60	12.95
75.0				10.15	10.90	11.65	12.40	12.70	13.20	13.55	13.95

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	13.69	13.83	13.97	14.09	14.21	14.31					
25.0	13.88	14.05	14.22	14.38	14.54	14.68					
30.0	14.08	14.28	14.49	14.69	14.89	15.09	15.27	15.33			
35.0	14.29	14.53	14.78	15.04	15.29	15.54	15.78	15.87	16.01		
40.0	14.51	14.80	15.10	15.41	15.72	16.03	16.34	16.46	16.64	16.79	16.93
45.0	14.75	15.10	15.46	15.82	16.20	16.58	16.96	17.11	17.34	17.52	17.71
50.0	15.02	15.42	15.84	16.28	16.73	17.18	17.64	17.82	18.10	18.33	18.56
55.0	15.30	15.77	16.27	16.78	17.30	17.84	18.38	18.60	18.93	19.21	19.48
60.0		16.16	16.73	17.32	17.93	18.56	19.19	19.45	19.84	20.17	20.49
65.0			17.24	17.92	18.62	19.34	20.08	20.38	20.83	21.20	21.58
70.0				18.57	19.37	20.19	21.04	21.38	21.89	22.33	22.77
75.0				19.29	20.19	21.12	22.07	22.46	23.05	23.54	24.04

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	59.50	75.20	94.00	116.50	142.50	173.00						
25.0	58.50	74.10	92.90	115.00	141.00	171.00						
30.0	57.60	73.20	91.80	114.00	139.50	169.50	204.00	219.00				
35.0	56.90	72.40	90.80	112.50	138.00	168.00	202.00	217.00	241.00			
40.0	56.30	71.70	89.90	111.50	137.00	166.50	200.00	215.00	239.00	261.00	283.00	
45.0	55.90	71.10	89.20	110.50	135.50	165.00	199.00	214.00	238.00	259.00	281.00	
50.0	55.80	70.80	88.60	109.50	134.50	163.50	197.50	212.00	236.00	257.00	280.00	
55.0	55.90	70.60	88.20	109.00	133.50	162.50	196.00	211.00	234.00	256.00	278.00	
60.0		70.80	88.10	108.50	133.00	161.50	195.00	209.00	233.00	254.00	277.00	
65.0			88.30	108.50	132.50	161.00	194.00	208.00	232.00	253.00	276.00	
70.0				109.00	132.50	160.50	193.50	208.00	231.00	253.00	275.00	
75.0				109.50	133.00	160.50	193.50	208.00	232.00	253.00	276.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	42.8
Length/Width, mm	357/323
Height, mm	579
Net Weight, kg	112
Gross Weight, kg	119
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 1/8
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	75
Sound Power (HT), dBA	86
Sound Power with Sound Shell (HT), dBA	76
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	18.4
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

ZH11M4E-TWD

R134a

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

Maximum Operating Current, A	32
Locked Rotor Current, A	198
Winding Resistance, ohm	0.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Sound Attenuation	Sound Shell (10dBA)
-------------------	---------------------

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