



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	
17.0	16.65	20.70	25.60										
20.0	16.15	20.20	25.00	30.80									
25.0	15.35	19.20	23.90	29.50	36.10	43.80							
30.0	14.50	18.25	22.80	28.10	34.50	41.90	50.60	54.40	60.50				
35.0	13.65	17.30	21.60	26.80	32.80	40.00	48.30	52.00	57.90	63.20	68.80		
40.0	12.80	16.30	20.40	25.30	31.10	38.00	45.90	49.40	55.10	60.20	65.60	77.60	
45.0	11.95	15.25	19.20	23.80	29.40	35.90	43.40	46.80	52.20	57.00	62.20	73.70	
50.0		14.20	17.90	22.30	27.50	33.70	40.80	44.00	49.20	53.80	58.80	69.70	
55.0			16.60	20.70	25.60	31.40	38.20	41.20	46.10	50.40	55.20	65.60	
60.0				19.05	23.60	29.00	35.40	38.20	42.80	47.00	51.40	61.30	
65.0					21.60	26.60	32.50	35.20	39.50	43.40	47.50		
67.0						25.60	31.30	33.90	38.10	41.90	45.90		

50 Hz

ZH11M4E-TWD

R407C Dew Point

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
17.0	5.66	5.91	6.23									
20.0	5.98	6.23	6.52	6.92								
25.0	6.49	6.78	7.06	7.40	7.86	8.49						
30.0	6.99	7.34	7.64	7.96	8.36	8.90	9.63	9.99	10.60			
35.0	7.46	7.90	8.26	8.60	8.98	9.45	10.10	10.40	10.90	11.45	12.05	
40.0	7.89	8.47	8.92	9.31	9.70	10.15	10.70	10.95	11.45	11.90	12.40	13.65
45.0	8.28	9.02	9.61	10.10	10.50	10.95	11.50	11.75	12.15	12.55	13.00	14.10
50.0		9.57	10.30	10.90	11.45	11.90	12.45	12.70	13.05	13.40	13.85	14.80
55.0			11.05	11.80	12.45	13.00	13.55	13.80	14.15	14.50	14.90	15.75
60.0				12.70	13.50	14.15	14.80	15.05	15.45	15.80	16.15	17.00
65.0					14.65	15.45	16.20	16.45	16.90	17.25	17.60	
67.0						16.00	16.80	17.10	17.50	17.90	18.25	

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
17.0	14.49	14.71	15.01									
20.0	14.80	15.02	15.30	15.70								
25.0	15.30	15.56	15.83	16.18	16.67	17.36						
30.0	15.79	16.12	16.43	16.77	17.20	17.80	18.62	19.02	19.72			
35.0	16.26	16.71	17.09	17.46	17.89	18.43	19.15	19.50	20.11	20.71	21.38	
40.0	16.70	17.31	17.81	18.26	18.72	19.25	19.91	20.23	20.78	21.30	21.90	23.35
45.0	17.11	17.93	18.59	19.16	19.69	20.25	20.90	21.20	21.71	22.19	22.73	24.04
50.0		18.56	19.42	20.15	20.80	21.43	22.11	22.41	22.90	23.36	23.87	25.08
55.0			20.31	21.23	22.04	22.79	23.54	23.86	24.36	24.82	25.31	26.46
60.0				22.41	23.41	24.32	25.19	25.54	26.08	26.55	27.06	28.19
65.0					24.91	26.02	27.04	27.44	28.05	28.56	29.09	
67.0						26.75	27.84	28.27	28.90	29.44	29.99	

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
17.0	88.50	108.50	132.00									
20.0	88.00	108.00	132.00	160.00								
25.0	87.20	107.50	131.50	160.00	192.50	231.00						
30.0	86.30	107.00	131.00	159.50	192.00	230.00	274.00	293.00	323.00			
35.0	85.40	106.00	130.50	158.50	191.50	230.00	273.00	292.00	323.00	350.00	379.00	
40.0	84.40	105.00	129.50	157.50	190.50	229.00	272.00	291.00	322.00	349.00	378.00	441.00
45.0	83.30	104.00	128.50	156.50	189.50	227.00	271.00	290.00	320.00	348.00	377.00	440.00
50.0		103.00	127.00	155.50	188.00	226.00	269.00	288.00	319.00	346.00	375.00	439.00
55.0			126.00	154.00	186.50	224.00	267.00	286.00	317.00	344.00	373.00	437.00
60.0				152.00	184.50	222.00	265.00	284.00	315.00	342.00	371.00	436.00
65.0					182.50	220.00	263.00	282.00	313.00	340.00	370.00	
67.0						219.00	262.00	281.00	312.00	340.00	369.00	

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	78
Sound Power (HT), dBA	89
Sound Power with Sound Shell (HT), dBA	80
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
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	1774
Refrigerant's classification	A1

50 Hz

ZH11M4E-TWD

R407C Dew Point

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)
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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