



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	13.35	16.80	20.90										
20.0	12.95	16.35	20.40	25.30									
25.0	12.35	15.65	19.60	24.30	29.90	36.30							
30.0	11.65	14.85	18.70	23.20	28.60	34.80	42.00	45.20	50.20				
35.0	11.00	14.10	17.75	22.10	27.20	33.20	40.10	43.10	48.00	52.30	57.00		
40.0	10.25	13.25	16.80	20.90	25.80	31.50	38.10	41.00	45.60	49.80	54.30	64.00	
45.0	9.53	12.40	15.75	19.70	24.40	29.80	36.00	38.80	43.20	47.20	51.40	60.70	
50.0		11.50	14.70	18.45	22.80	27.90	33.80	36.50	40.70	44.40	48.50	57.30	
55.0			13.60	17.10	21.20	26.00	31.60	34.10	38.00	41.60	45.40	53.80	
60.0				15.75	19.55	24.10	29.30	31.60	35.30	38.70	42.20	50.20	
65.0					17.85	22.00	26.90	29.00	32.50	35.60	39.00		
67.0						21.20	25.90	27.90	31.30	34.40	37.60		

50 Hz

ZH92K4E-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	4.48	4.72	4.96										
20.0	4.76	5.01	5.25	5.51									
25.0	5.21	5.50	5.76	6.02	6.31	6.65							
30.0	5.64	5.98	6.28	6.56	6.85	7.18	7.58	7.76	8.07				
35.0	6.05	6.46	6.81	7.13	7.44	7.78	8.16	8.34	8.62	8.89	9.19		
40.0	6.44	6.94	7.36	7.73	8.08	8.44	8.83	9.00	9.28	9.54	9.82	10.45	
45.0	6.81	7.41	7.92	8.37	8.77	9.17	9.58	9.76	10.05	10.30	10.55	11.20	
50.0		7.88	8.50	9.03	9.51	9.97	10.40	10.60	10.90	11.15	11.45	12.05	
55.0			9.09	9.73	10.30	10.85	11.35	11.55	11.85	12.15	12.40	13.05	
60.0				10.45	11.15	11.75	12.35	12.55	12.90	13.20	13.55	14.20	
65.0					12.00	12.75	13.45	13.70	14.10	14.40	14.75		
67.0						13.15	13.90	14.15	14.60	14.90	15.25		

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	10.76	11.01	11.27										
20.0	11.06	11.33	11.59	11.87									
25.0	11.55	11.86	12.14	12.44	12.77	13.17							
30.0	12.02	12.40	12.73	13.06	13.40	13.79	14.27	14.48	14.85				
35.0	12.48	12.95	13.35	13.73	14.11	14.52	14.99	15.20	15.55	15.87	16.23		
40.0	12.92	13.50	14.00	14.46	14.90	15.35	15.84	16.05	16.40	16.72	17.06	17.86	
45.0	13.35	14.07	14.69	15.25	15.76	16.28	16.81	17.04	17.40	17.72	18.07	18.86	
50.0		14.65	15.41	16.09	16.71	17.31	17.91	18.16	18.55	18.89	19.26	20.05	
55.0			16.17	16.99	17.74	18.45	19.14	19.43	19.86	20.23	20.61	21.44	
60.0				17.95	18.86	19.70	20.50	20.83	21.31	21.72	22.14	23.03	
65.0					20.05	21.05	21.99	22.36	22.92	23.38	23.85		
67.0						21.62	22.63	23.02	23.61	24.09	24.59		

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	71.00	87.90	108.00									
20.0	70.70	87.80	108.00	132.00								
25.0	70.10	87.40	108.00	131.50	159.50	191.50						
30.0	69.40	87.00	107.50	131.50	159.00	191.00	227.00	243.00	268.00			
35.0	68.60	86.30	107.00	131.00	158.50	190.50	227.00	242.00	268.00	290.00	314.00	
40.0	67.60	85.60	106.50	130.50	158.00	189.50	226.00	241.00	267.00	289.00	312.00	364.00
45.0	66.40	84.60	105.50	129.50	157.00	188.50	225.00	240.00	265.00	287.00	311.00	362.00
50.0		83.40	104.50	128.50	156.00	187.50	223.00	239.00	264.00	286.00	309.00	361.00
55.0			103.00	127.00	154.50	186.00	221.00	237.00	262.00	284.00	307.00	359.00
60.0				125.50	153.00	184.00	219.00	235.00	260.00	282.00	305.00	356.00
65.0					151.00	182.00	217.00	233.00	257.00	279.00	303.00	
67.0						181.00	216.00	232.00	257.00	279.00	302.00	

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	75
Sound Power (HT), dBA	86
Sound Power with Sound Shell (HT), dBA	74
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
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	1774
Refrigerant's classification	A1

50 Hz

ZH92K4E-TWD

R407C Dew Point

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