



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	7.48	9.54	12.00									
20.0	7.18	9.19	11.60	14.50								
25.0	6.71	8.64	10.95	13.70	16.95	20.70						
30.0	6.27	8.12	10.30	12.95	16.05	19.65	23.80	25.60	28.60			
35.0	5.87	7.63	9.73	12.20	15.15	18.55	22.50	24.30	27.10	29.60	32.30	
40.0	5.49	7.16	9.15	11.50	14.30	17.55	21.30	23.00	25.60	28.10	30.60	36.30
45.0	5.13	6.72	8.60	10.80	13.45	16.50	20.10	21.60	24.20	26.50	28.90	34.30
50.0		6.29	8.06	10.15	12.60	15.50	18.85	20.30	22.70	24.90	27.20	32.30
55.0			7.54	9.49	11.80	14.50	17.65	19.05	21.30	23.30	25.50	30.30
60.0				8.84	10.95	13.50	16.45	17.75	19.85	21.80	23.80	28.30
65.0					10.15	12.50	15.20	16.45	18.40	20.20	22.10	
67.0						12.10	14.70	15.90	17.80	19.55	21.40	

50 Hz

ZH56K4E-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	3.02	3.13	3.24									
20.0	3.18	3.29	3.41	3.54								
25.0	3.43	3.56	3.69	3.82	3.97	4.16						
30.0	3.67	3.83	3.97	4.11	4.26	4.44	4.66	4.77	4.95			
35.0	3.90	4.10	4.26	4.42	4.58	4.75	4.97	5.07	5.23	5.39	5.56	
40.0	4.14	4.38	4.58	4.75	4.93	5.11	5.32	5.41	5.57	5.72	5.88	6.27
45.0	4.39	4.67	4.91	5.12	5.31	5.51	5.72	5.82	5.97	6.11	6.27	6.63
50.0		4.98	5.26	5.51	5.74	5.95	6.18	6.28	6.43	6.57	6.72	7.07
55.0			5.65	5.94	6.21	6.45	6.70	6.80	6.96	7.10	7.25	7.59
60.0				6.42	6.73	7.01	7.28	7.39	7.56	7.70	7.86	8.20
65.0					7.30	7.62	7.93	8.05	8.23	8.39	8.55	
67.0						7.89	8.21	8.34	8.53	8.69	8.85	

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	10.04	10.10	10.18									
20.0	10.15	10.22	10.29	10.39								
25.0	10.32	10.41	10.50	10.59	10.71	10.86						
30.0	10.49	10.61	10.71	10.82	10.94	11.09	11.28	11.37	11.51			
35.0	10.67	10.81	10.95	11.07	11.21	11.36	11.55	11.64	11.78	11.92	12.07	
40.0	10.85	11.04	11.21	11.36	11.52	11.69	11.88	11.97	12.12	12.25	12.40	12.74
45.0	11.04	11.29	11.50	11.69	11.88	12.07	12.28	12.37	12.52	12.66	12.81	13.15
50.0		11.56	11.83	12.07	12.29	12.52	12.75	12.85	13.01	13.15	13.31	13.65
55.0			12.20	12.50	12.77	13.03	13.30	13.41	13.59	13.74	13.90	14.26
60.0				12.99	13.31	13.63	13.94	14.06	14.26	14.43	14.60	14.98
65.0					13.93	14.30	14.67	14.81	15.03	15.22	15.41	
67.0						14.60	14.98	15.14	15.37	15.56	15.76	

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	39.80	50.00	62.00									
20.0	39.10	49.30	61.30	75.40								
25.0	38.20	48.30	60.30	74.30	90.50	109.00						
30.0	37.30	47.50	59.40	73.30	89.30	108.00	129.00	138.00	152.50			
35.0	36.60	46.80	58.60	72.40	88.30	106.50	127.50	136.50	151.00	164.00	178.00	
40.0	36.10	46.20	58.00	71.60	87.40	105.50	126.50	135.50	150.00	162.50	176.50	206.00
45.0	35.70	45.80	57.50	71.10	86.70	104.50	125.00	134.00	148.50	161.50	175.00	205.00
50.0		45.60	57.30	70.70	86.10	104.00	124.50	133.00	147.50	160.00	173.50	203.00
55.0			57.20	70.50	85.80	103.50	123.50	132.50	146.50	159.00	172.50	202.00
60.0				70.50	85.60	103.00	123.00	132.00	146.00	158.50	172.00	201.00
65.0					85.90	103.00	123.00	132.00	146.00	158.50	171.50	
67.0						103.50	123.00	132.00	146.00	158.50	172.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	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	17.0
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	1774
Refrigerant's classification	A1

50 Hz

ZH56K4E-TWD

R407C Dew Point

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