



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	10.10	12.75	16.05									
20.0	9.83	12.50	15.70	19.60								
25.0	9.39	12.00	15.10	18.90	23.30	28.50						
30.0	8.91	11.45	14.45	18.10	22.40	27.40	33.20	35.70	39.80			
35.0	8.42	10.85	13.75	17.25	21.30	26.10	31.70	34.10	38.10	41.60	45.40	
40.0	7.91	10.25	13.00	16.30	20.20	24.80	30.10	32.40	36.20	39.60	43.20	51.20
45.0	7.41	9.60	12.20	15.35	19.05	23.40	28.40	30.60	34.20	37.50	40.90	48.50
50.0		8.95	11.40	14.35	17.80	21.90	26.60	28.70	32.10	35.20	38.50	45.70
55.0			10.55	13.30	16.50	20.30	24.80	26.70	29.90	32.80	35.90	42.70
60.0				12.20	15.15	18.70	22.80	24.70	27.60	30.30	33.20	39.60
65.0					13.80	17.00	20.80	22.50	25.30	27.80	30.40	
67.0						16.30	20.00	21.60	24.30	26.70	29.30	

50 Hz

ZH75K4E-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	3.69	3.87	4.02									
20.0	3.91	4.11	4.26	4.41								
25.0	4.27	4.50	4.67	4.82	4.97	5.15						
30.0	4.62	4.90	5.11	5.27	5.43	5.59	5.80	5.90	6.08			
35.0	4.95	5.30	5.56	5.76	5.93	6.10	6.29	6.38	6.53	6.69	6.86	
40.0	5.26	5.69	6.02	6.27	6.48	6.66	6.85	6.94	7.09	7.22	7.38	7.77
45.0	5.55	6.08	6.49	6.81	7.06	7.28	7.49	7.58	7.73	7.86	8.01	8.37
50.0		6.45	6.96	7.36	7.68	7.95	8.20	8.29	8.45	8.58	8.73	9.07
55.0			7.42	7.92	8.33	8.66	8.96	9.07	9.24	9.39	9.55	9.89
60.0				8.49	9.00	9.42	9.78	9.92	10.10	10.30	10.45	10.80
65.0					9.68	10.20	10.65	10.80	11.05	11.25	11.45	
67.0						10.55	11.00	11.20	11.45	11.65	11.85	

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	10.53	10.68	10.81									
20.0	10.72	10.88	11.01	11.15								
25.0	11.04	11.23	11.39	11.53	11.68	11.85						
30.0	11.35	11.61	11.81	11.97	12.13	12.30	12.50	12.60	12.77			
35.0	11.66	12.00	12.26	12.47	12.66	12.84	13.04	13.13	13.29	13.43	13.59	
40.0	11.96	12.40	12.75	13.03	13.26	13.48	13.70	13.79	13.94	14.08	14.23	14.59
45.0	12.25	12.81	13.26	13.63	13.94	14.21	14.46	14.57	14.72	14.87	15.02	15.36
50.0		13.22	13.80	14.28	14.68	15.02	15.34	15.46	15.64	15.79	15.95	16.31
55.0			14.36	14.97	15.48	15.92	16.31	16.46	16.68	16.86	17.04	17.42
60.0				15.70	16.34	16.90	17.39	17.57	17.83	18.05	18.26	18.69
65.0					17.25	17.95	18.56	18.78	19.11	19.37	19.62	
67.0						18.39	19.05	19.30	19.65	19.93	20.20	

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	53.60	66.90	82.80									
20.0	53.60	67.00	83.00	102.00								
25.0	53.40	67.00	83.20	102.50	124.50	150.00						
30.0	53.00	66.90	83.20	102.50	124.50	150.50	179.50	192.50	213.00			
35.0	52.60	66.50	82.90	102.00	124.50	150.00	179.00	192.00	212.00	231.00	250.00	
40.0	52.10	66.10	82.40	101.50	124.00	149.50	178.50	191.00	212.00	230.00	249.00	291.00
45.0	51.60	65.50	81.80	101.00	123.00	148.00	177.00	190.00	210.00	228.00	247.00	289.00
50.0		64.90	81.00	99.80	121.50	146.50	175.50	188.00	208.00	226.00	245.00	287.00
55.0			80.20	98.60	120.00	145.00	173.50	186.00	206.00	224.00	243.00	285.00
60.0				97.40	118.50	143.00	171.00	183.50	203.00	221.00	240.00	282.00
65.0					116.50	140.50	168.50	180.50	200.00	218.00	237.00	
67.0						139.50	167.00	179.50	199.00	217.00	235.00	

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	28.8
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
TechData11996	15.5
TechData11999	2.1
Internal Free Volume, l	17.6
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

ZH75K4E-TWD

R407C Dew Point

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

Maximum Operating Current, A	21
Locked Rotor Current, A	127
Winding Resistance, ohm	1.02
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