



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 5 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	25.0
17.0	1.86	2.32	2.89	3.56									
20.0	1.78	2.24	2.79	3.45	4.22								
25.0	1.66	2.10	2.63	3.26	4.00	4.86							
30.0	1.54	1.97	2.48	3.08	3.78	4.60	5.55	5.97	6.65				
35.0	1.44	1.85	2.33	2.90	3.56	4.34	5.24	5.64	6.27	6.85	7.46	8.80	
40.0	1.34	1.72	2.18	2.71	3.34	4.07	4.92	5.29	5.89	6.43	7.01	8.28	9.71
45.0		1.60	2.03	2.53	3.11	3.79	4.59	4.94	5.50	6.01	6.55	7.74	9.10
50.0			1.88	2.34	2.88	3.51	4.25	4.57	5.10	5.57	6.08	7.19	8.46
55.0				2.14	2.63	3.21	3.89	4.19	4.68	5.11	5.58	6.62	7.80
60.0					2.37	2.90	3.51	3.79	4.23	4.63	5.06	6.02	7.11
65.0						2.55	3.10	3.35	3.75	4.11	4.50		
68.0						2.36	2.87	3.10	3.48				

50 Hz

ZH04K1P-PFZ

R410A 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	25.0
17.0	0.75	0.76	0.76	0.75									
20.0	0.80	0.81	0.81	0.81	0.79								
25.0	0.88	0.90	0.91	0.91	0.90	0.88							
30.0	0.96	0.99	1.01	1.01	1.01	1.00	0.98	0.96	0.94				
35.0	1.05	1.08	1.10	1.12	1.13	1.12	1.11	1.10	1.08	1.06	1.03	0.98	
40.0	1.14	1.18	1.22	1.24	1.26	1.26	1.25	1.25	1.23	1.22	1.20	1.15	1.08
45.0		1.30	1.33	1.36	1.38	1.40	1.40	1.40	1.39	1.38	1.37	1.33	1.28
50.0			1.46	1.50	1.53	1.55	1.56	1.56	1.56	1.56	1.55	1.52	1.48
55.0				1.64	1.68	1.72	1.74	1.74	1.74	1.74	1.74	1.72	1.69
60.0					1.86	1.90	1.92	1.94	1.94	1.95	1.95	1.94	1.92
65.0						2.09	2.13	2.14	2.16	2.17	2.18		
68.0						2.20	2.24	2.26	2.28				

Cond °C	Current at 230 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	25.0
17.0	3.50	3.53	3.53	3.49									
20.0	3.68	3.73	3.74	3.72	3.65								
25.0	3.99	4.07	4.11	4.12	4.08	3.99							
30.0	4.33	4.43	4.51	4.54	4.54	4.49	4.39	4.33	4.22				
35.0	4.70	4.83	4.93	5.00	5.03	5.02	4.95	4.91	4.83	4.74	4.64	4.39	
40.0	5.11	5.27	5.40	5.50	5.57	5.59	5.56	5.53	5.48	5.41	5.33	5.12	4.84
45.0		5.75	5.91	6.05	6.15	6.21	6.22	6.21	6.17	6.13	6.07	5.90	5.66
50.0			6.47	6.64	6.78	6.87	6.92	6.93	6.92	6.90	6.86	6.74	6.55
55.0				7.29	7.47	7.60	7.69	7.71	7.73	7.73	7.72	7.64	7.49
60.0					8.22	8.39	8.52	8.56	8.61	8.63	8.64	8.60	8.50
65.0						9.25	9.43	9.48	9.55	9.60	9.63		
68.0						9.73	9.92	9.99	10.07				

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	25.0
17.0	9.55	11.80	14.50	17.70									
20.0	9.39	11.65	14.35	17.55	21.30								
25.0	9.15	11.45	14.15	17.35	21.00	25.30							
30.0	8.96	11.25	13.95	17.15	20.80	25.10	30.00	32.10	35.50				
35.0	8.79	11.10	13.80	16.95	20.60	24.80	29.70	31.80	35.20	38.20	41.50	48.50	
40.0	8.66	11.00	13.65	16.75	20.40	24.50	29.30	31.40	34.80	37.80	41.00	48.10	56.00
45.0		10.85	13.50	16.60	20.20	24.30	29.00	31.10	34.40	37.40	40.60	47.60	55.50
50.0			13.35	16.40	19.90	24.00	28.60	30.70	34.00	36.90	40.10	47.10	54.90
55.0				16.20	19.65	23.60	28.20	30.30	33.50	36.50	39.60	46.50	54.40
60.0					19.40	23.30	27.90	29.90	33.10	36.00	39.20	46.10	54.00
65.0						23.10	27.60	29.60	32.80	35.70	38.90		
68.0						23.00	27.60	29.60	32.80				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	3.36
Length/Width, mm	227/194
Height, mm	388
Net Weight, kg	21.3
Gross Weight, kg	22
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	57
Sound Power (HT), dBA	68
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	2.30
High Side PS gauge, bar	46
Low Side PS gauge, bar	28
Low Side TS Max., °C	50
Refrigerant's GWP	2088
Refrigerant's classification	A1

50 Hz

ZH04K1P-PFZ

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### **COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)**

Maximum Operating Current, A	10.5
Locked Rotor Current, A	52
Winding Resistance, ohm	1.48/2.17 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

Crankcase Heater	40 W External
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### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
PFZ	220-240 V / 1~ / 50 Hz	230		PSC	1.00