



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													
	-30.0	-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	1.52	1.94	2.43	2.99	3.64									
20.0	1.50	1.92	2.42	2.98	3.62	4.35								
25.0	1.46	1.89	2.38	2.94	3.58	4.30	5.12							
30.0	1.41	1.84	2.34	2.90	3.52	4.23	5.03	5.93	6.31	6.93				
35.0	1.36	1.80	2.29	2.84	3.46	4.15	4.93	5.80	6.17	6.77	7.29	7.85	9.04	
40.0	1.31	1.75	2.24	2.78	3.38	4.05	4.81	5.65	6.01	6.58	7.09	7.63	8.78	10.05
45.0		1.70	2.18	2.71	3.29	3.94	4.67	5.47	5.82	6.37	6.86	7.37	8.49	9.71
50.0		1.66	2.13	2.64	3.20	3.83	4.52	5.29	5.62	6.15	6.62	7.10	8.16	9.32
55.0			2.07	2.56	3.10	3.70	4.36	5.09	5.41	5.90	6.34	6.81	7.81	8.92
60.0				2.49	3.00	3.56	4.19	4.88	5.17	5.64	6.05	6.50	7.43	8.48
65.0					2.89	3.42	4.00	4.64	4.92	5.36	5.74	6.14		
68.0					2.83	3.34	3.89	4.51	4.77	5.19				

50 Hz

ZHI05K1P-PFZ

R410A Dew Point

Cond °C	Power, kW													
	-30.0	-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	0.79	0.81	0.81	0.80	0.79									
20.0	0.85	0.87	0.87	0.87	0.86	0.84								
25.0	0.95	0.98	0.99	0.99	0.98	0.96	0.95							
30.0	1.06	1.09	1.12	1.12	1.11	1.10	1.08	1.06	1.06	1.04				
35.0	1.16	1.22	1.25	1.26	1.26	1.25	1.23	1.21	1.20	1.18	1.18	1.16	1.16	
40.0	1.28	1.35	1.40	1.42	1.42	1.42	1.40	1.38	1.36	1.35	1.34	1.32	1.30	1.29
45.0		1.50	1.56	1.59	1.60	1.60	1.59	1.57	1.56	1.54	1.52	1.51	1.48	1.46
50.0		1.65	1.72	1.78	1.80	1.81	1.80	1.78	1.78	1.76	1.74	1.72	1.69	1.66
55.0			1.92	1.98	2.02	2.04	2.04	2.03	2.02	2.00	1.98	1.96	1.93	1.90
60.0				2.21	2.27	2.30	2.31	2.30	2.29	2.28	2.26	2.25	2.21	2.17
65.0					2.55	2.59	2.61	2.61	2.60	2.59	2.58	2.56		
68.0					2.71	2.76	2.78	2.79	2.78	2.77				

Cond °C	Current at 230 V, A													
	-30.0	-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	3.43	3.50	3.53	3.52	3.48									
20.0	3.84	3.93	3.97	3.97	3.93	3.87								
25.0	4.45	4.57	4.63	4.65	4.63	4.57	4.48							
30.0	4.98	5.14	5.23	5.28	5.27	5.22	5.14	5.02	4.97	4.89				
35.0	5.48	5.68	5.81	5.88	5.89	5.86	5.79	5.68	5.63	5.54	5.47	5.38	5.20	
40.0	5.97	6.22	6.39	6.49	6.54	6.53	6.47	6.37	6.33	6.24	6.16	6.08	5.89	5.69
45.0		6.79	7.00	7.15	7.23	7.24	7.21	7.13	7.08	7.00	6.93	6.85	6.66	6.45
50.0		7.43	7.69	7.88	8.00	8.05	8.04	7.98	7.94	7.88	7.81	7.73	7.55	7.33
55.0			8.49	8.73	8.89	8.98	9.01	8.97	8.94	8.88	8.82	8.75	8.58	8.37
60.0				9.74	9.95	10.08	10.14	10.14	10.12	10.07	10.02	9.97	9.80	9.60
65.0					11.23	11.41	11.50	11.53	11.54	11.50	11.46	11.40		
68.0					12.01	12.21	12.33	12.38	12.38	12.35				

Cond °C	Suction Mass Flow, g/s													
	-30.0	-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	6.66	8.62	10.95	13.70	16.95									
20.0	6.60	8.59	10.95	13.75	17.00	20.90								
25.0	6.47	8.52	10.90	13.75	17.00	20.90	25.40							
30.0	6.32	8.42	10.85	13.65	16.95	20.80	25.30	30.50	32.80	36.60				
35.0	6.17	8.30	10.75	13.55	16.85	20.60	25.10	30.20	32.50	36.30	39.60	43.30	51.50	
40.0	6.02	8.17	10.60	13.45	16.70	20.40	24.80	29.90	32.10	35.80	39.10	42.70	50.90	60.50
45.0		8.05	10.50	13.30	16.50	20.20	24.50	29.40	31.70	35.30	38.50	42.10	50.10	59.50
50.0		7.94	10.35	13.10	16.25	19.85	24.10	28.90	31.10	34.60	37.80	41.30	49.20	58.50
55.0			10.25	12.95	16.00	19.50	23.60	28.30	30.50	33.90	37.00	40.40	48.10	57.20
60.0				12.75	15.75	19.15	23.10	27.70	29.70	33.10	36.10	39.40	46.90	55.80
65.0					15.50	18.80	22.60	27.00	29.00	32.20	35.10	38.30		
68.0					15.40	18.60	22.30	26.60	28.50	31.70				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	58
Sound Power (HT), dBA	69
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

ZHI05K1P-PFZ

R410A Dew Point

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

Maximum Operating Current, A	16.4
Locked Rotor Current, A	60
Winding Resistance, ohm	2.61/1.33 (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