



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	2.70	3.25	3.89	4.64	5.48										
20.0	2.69	3.26	3.91	4.67	5.52	6.46									
25.0	2.67	3.25	3.92	4.69	5.55	6.50	7.56								
30.0	2.64	3.22	3.90	4.67	5.54	6.50	7.55	8.70	9.19	9.95					
35.0	2.58	3.17	3.85	4.62	5.48	6.44	7.49	8.64	9.12	9.88	10.55	11.20	12.65		
40.0	2.52	3.10	3.77	4.54	5.39	6.34	7.38	8.51	8.99	9.74	10.40	11.05	12.50	14.00	
45.0		3.01	3.67	4.42	5.26	6.18	7.20	8.32	8.80	9.53	10.15	10.85	12.25	13.70	
50.0		2.91	3.55	4.27	5.09	5.99	6.99	8.08	8.54	9.25	9.88	10.50	11.90	13.35	
55.0			3.40	4.10	4.88	5.76	6.72	7.77	8.21	8.92	9.52	10.15	11.45	12.90	
60.0				3.90	4.64	5.48	6.40	7.41	7.84	8.51	9.08	9.68	10.95	12.35	
65.0					4.37	5.16	6.03	6.98	7.38	8.02	8.57	9.14			
68.0					4.21	4.96	5.80	6.72	7.12	7.73					

50 Hz

ZHI08K1P-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	1.35	1.37	1.38	1.36	1.31									
20.0	1.42	1.44	1.46	1.45	1.42	1.35								
25.0	1.54	1.58	1.60	1.61	1.59	1.54	1.46							
30.0	1.69	1.74	1.76	1.78	1.78	1.74	1.68	1.59	1.54	1.46				
35.0	1.86	1.90	1.94	1.97	1.98	1.96	1.92	1.84	1.80	1.73	1.66	1.58	1.39	
40.0	2.05	2.10	2.15	2.18	2.20	2.19	2.16	2.11	2.08	2.02	1.96	1.89	1.72	1.50
45.0		2.33	2.38	2.42	2.44	2.45	2.43	2.39	2.37	2.32	2.27	2.21	2.06	1.87
50.0		2.59	2.64	2.69	2.72	2.74	2.73	2.70	2.68	2.65	2.61	2.56	2.43	2.26
55.0			2.94	2.99	3.03	3.05	3.06	3.04	3.03	3.00	2.97	2.93	2.82	2.67
60.0				3.35	3.39	3.42	3.43	3.43	3.42	3.40	3.37	3.34	3.25	3.12
65.0					3.81	3.84	3.86	3.86	3.85	3.84	3.82	3.79		
68.0					4.05	4.08	4.10	4.10	4.10	4.09				

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	6.95	7.02	7.02	6.94	6.75									
20.0	7.29	7.38	7.42	7.37	7.22	6.96								
25.0	7.86	7.99	8.07	8.08	7.99	7.80	7.48							
30.0	8.47	8.64	8.76	8.81	8.79	8.66	8.41	8.03	7.83	7.49				
35.0	9.15	9.35	9.50	9.60	9.63	9.56	9.37	9.07	8.90	8.61	8.32	7.99	7.18	
40.0	9.94	10.16	10.34	10.48	10.55	10.53	10.41	10.17	10.03	9.79	9.54	9.25	8.54	7.63
45.0		11.09	11.30	11.47	11.56	11.59	11.53	11.35	11.25	11.05	10.84	10.59	9.97	9.16
50.0		12.19	12.41	12.60	12.74	12.81	12.80	12.67	12.59	12.43	12.25	12.04	11.50	10.78
55.0			13.71	13.92	14.09	14.19	14.22	14.14	14.08	13.97	13.82	13.64	13.17	12.54
60.0				15.48	15.66	15.79	15.85	15.83	15.79	15.69	15.57	15.42	15.03	14.47
65.0					17.55	17.69	17.77	17.76	17.73	17.67	17.57	17.44		
68.0					18.67	18.81	18.89	18.88	18.88	18.81				

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	11.70	14.30	17.45	21.20	25.50									
20.0	11.75	14.45	17.70	21.50	25.90	30.90								
25.0	11.85	14.60	17.95	21.80	26.40	31.60	37.50							
30.0	11.80	14.65	18.10	22.10	26.70	32.00	38.10	45.00	48.00	52.90				
35.0	11.70	14.65	18.10	22.10	26.80	32.20	38.40	45.40	48.50	53.40	57.90	62.60	73.10	
40.0	11.55	14.50	17.95	22.00	26.70	32.20	38.40	45.50	48.60	53.60	58.10	62.90	73.50	85.80
45.0		14.30	17.75	21.80	26.50	31.90	38.20	45.30	48.40	53.50	58.00	62.80	73.60	86.10
50.0		14.00	17.40	21.40	26.10	31.50	37.70	44.80	48.00	53.00	57.50	62.40	73.30	85.90
55.0			16.95	20.90	25.50	30.80	37.00	44.10	47.20	52.20	56.70	61.60	72.50	85.20
60.0				20.30	24.70	30.00	36.00	43.00	46.10	51.00	55.50	60.40	71.30	84.10
65.0					23.80	28.90	34.80	41.60	44.60	49.50	54.00	58.80		
68.0					23.30	28.20	34.00	40.80	43.80	48.60				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	5.13
Length/Width, mm	242/242
Height, mm	418
Net Weight, kg	31
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.25
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	63
Sound Power (HT), dBA	74
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	3.90
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

ZHI08K1P-PFZ

R410A Dew Point

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

Maximum Operating Current, A	22.4
Locked Rotor Current, A	108
Winding Resistance, ohm	0.58/0.87 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Crankcase Heater	40 W External
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MOTOR OPTIONS

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