



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	3.79	4.50	5.33	6.29	7.39									
20.0	3.78	4.51	5.36	6.34	7.45	8.71								
25.0	3.74	4.50	5.38	6.37	7.50	8.76	10.15							
30.0	3.68	4.46	5.35	6.36	7.49	8.76	10.15	11.70	12.35	13.40				
35.0	3.60	4.39	5.29	6.30	7.43	8.69	10.10	11.60	12.25	13.30	14.20	15.10	17.10	
40.0	3.49	4.29	5.19	6.20	7.32	8.56	9.94	11.45	12.10	13.10	13.95	14.90	16.85	18.95
45.0		4.16	5.05	6.04	7.14	8.36	9.71	11.20	11.80	12.80	13.65	14.55	16.45	18.50
50.0		3.99	4.87	5.84	6.92	8.11	9.42	10.85	11.45	12.40	13.25	14.10	15.95	17.95
55.0			4.66	5.60	6.65	7.79	9.06	10.45	11.00	11.95	12.75	13.60	15.35	17.30
60.0				5.32	6.32	7.42	8.62	9.95	10.50	11.40	12.15	12.95	14.65	16.50
65.0					5.94	6.98	8.12	9.36	9.89	10.75	11.45	12.20		
68.0					5.71	6.71	7.81	9.02	9.53	10.30				

50 Hz

ZHI11K1P-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	1.72	1.77	1.79	1.78	1.72									
20.0	1.81	1.87	1.90	1.90	1.87	1.78								
25.0	1.98	2.04	2.09	2.12	2.11	2.05	1.94							
30.0	2.16	2.23	2.30	2.34	2.35	2.32	2.25	2.12	2.05	1.92				
35.0	2.37	2.45	2.53	2.58	2.61	2.61	2.56	2.46	2.41	2.30	2.20	2.08	1.78	
40.0	2.63	2.71	2.79	2.85	2.90	2.91	2.89	2.82	2.78	2.69	2.61	2.51	2.25	1.92
45.0		3.02	3.10	3.17	3.22	3.25	3.24	3.20	3.17	3.10	3.04	2.95	2.73	2.44
50.0		3.38	3.45	3.53	3.59	3.63	3.64	3.61	3.59	3.54	3.49	3.42	3.24	2.99
55.0			3.88	3.95	4.01	4.06	4.08	4.07	4.06	4.03	3.99	3.93	3.78	3.56
60.0				4.45	4.51	4.56	4.59	4.60	4.59	4.56	4.53	4.49	4.36	4.17
65.0					5.10	5.15	5.18	5.19	5.18	5.17	5.15	5.11		
68.0					5.46	5.50	5.53	5.54	5.54	5.52				

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	10.08	10.22	10.29	10.25	10.06									
20.0	10.38	10.55	10.66	10.67	10.54	10.25								
25.0	10.92	11.15	11.31	11.39	11.35	11.16	10.79							
30.0	11.56	11.83	12.05	12.19	12.22	12.12	11.86	11.39	11.14	10.70				
35.0	12.34	12.64	12.90	13.10	13.20	13.18	13.00	12.64	12.43	12.06	11.68	11.24	10.14	
40.0	13.30	13.62	13.92	14.16	14.32	14.36	14.27	14.00	13.83	13.52	13.20	12.82	11.85	10.59
45.0		14.81	15.13	15.40	15.60	15.70	15.68	15.49	15.38	15.13	14.86	14.53	13.68	12.56
50.0		16.24	16.57	16.88	17.12	17.28	17.31	17.20	17.10	16.91	16.68	16.41	15.68	14.67
55.0			18.31	18.63	18.90	19.09	19.18	19.12	19.06	18.92	18.74	18.51	17.87	16.99
60.0				20.72	21.01	21.23	21.35	21.37	21.32	21.21	21.06	20.87	20.33	19.54
65.0					23.56	23.78	23.92	23.95	23.92	23.86	23.73	23.56		
68.0					25.07	25.29	25.43	25.49	25.47	25.38				

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	16.40	19.75	23.80	28.60	34.30										
20.0	16.50	20.00	24.10	29.10	34.80	41.50									
25.0	16.55	20.20	24.50	29.60	35.60	42.40	50.40								
30.0	16.50	20.30	24.80	30.00	36.10	43.10	51.10	60.40	64.50	71.10					
35.0	16.30	20.20	24.80	30.20	36.30	43.40	51.60	60.90	65.10	71.70	77.70	84.20	98.50		
40.0	16.05	20.10	24.70	30.10	36.30	43.50	51.70	61.10	65.30	72.00	78.00	84.50	99.00	116.00	
45.0		19.70	24.40	29.80	36.10	43.20	51.50	60.90	65.10	71.80	77.90	84.40	99.00	116.00	
50.0		19.25	24.00	29.30	35.60	42.70	50.90	60.30	64.50	71.20	77.30	83.80	98.50	115.50	
55.0			23.30	28.70	34.80	41.90	50.00	59.30	63.50	70.20	76.20	82.70	97.30	114.50	
60.0				27.80	33.80	40.70	48.70	57.90	62.00	68.60	74.60	81.00	95.60	113.00	
65.0					32.50	39.20	47.00	56.10	60.10	66.60	72.50	78.80			
68.0					31.70	38.40	46.00	54.90	58.90	65.30					

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	6.93
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	3.60
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

ZHI11K1P-PFZ

R410A Dew Point

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

Maximum Operating Current, A	24.5
Locked Rotor Current, A	130
Winding Resistance, ohm	1.01/0.51 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

Single Phase Equipment	Relay, Start and Run Capacitor
Crankcase Heater	40 W External

### **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