



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	4.02	5.00	6.17	7.55									
20.0	3.89	4.86	6.00	7.35	8.92								
25.0	3.67	4.60	5.71	7.01	8.52	10.25							
30.0	3.44	4.34	5.41	6.65	8.10	9.78	11.70	12.55	13.90				
35.0	3.21	4.08	5.09	6.28	7.66	9.25	11.10	11.90	13.15	14.30	15.55	18.20	
40.0	2.99	3.81	4.77	5.89	7.19	8.70	10.45	11.20	12.40	13.50	14.70	17.20	20.10
45.0		3.53	4.43	5.48	6.71	8.13	9.76	10.50	11.65	12.65	13.75	16.20	18.90
50.0			4.08	5.06	6.20	7.52	9.05	9.73	10.80	11.80	12.80	15.10	17.65
55.0				4.61	5.66	6.88	8.30	8.93	9.94	10.85	11.80	13.95	16.35
60.0					5.10	6.21	7.51	8.09	9.02	9.85	10.75	12.75	14.95
65.0						5.49	6.66	7.18	8.02	8.78	9.60		
68.0						5.03	6.12	6.60	7.39				

50 Hz

ZH09K1P-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	1.52	1.50	1.48	1.46									
20.0	1.62	1.62	1.60	1.58	1.54								
25.0	1.80	1.80	1.80	1.78	1.75	1.72							
30.0	1.97	2.00	2.00	1.98	1.96	1.94	1.92	1.90	1.89				
35.0	2.15	2.19	2.21	2.21	2.20	2.18	2.16	2.15	2.13	2.12	2.11	2.10	
40.0	2.33	2.39	2.43	2.45	2.45	2.44	2.42	2.41	2.40	2.39	2.38	2.36	2.35
45.0		2.60	2.66	2.70	2.72	2.72	2.71	2.71	2.70	2.69	2.68	2.66	2.65
50.0			2.91	2.97	3.01	3.03	3.03	3.03	3.03	3.02	3.01	3.00	2.99
55.0				3.26	3.32	3.36	3.38	3.38	3.39	3.39	3.39	3.38	3.37
60.0					3.66	3.72	3.76	3.77	3.78	3.79	3.80	3.80	3.80
65.0						4.11	4.17	4.19	4.22	4.23	4.24		
68.0						4.36	4.44	4.46	4.49				

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	7.08	7.03	6.94	6.82									
20.0	7.69	7.66	7.59	7.48	7.36								
25.0	8.62	8.64	8.60	8.51	8.40	8.28							
30.0	9.45	9.54	9.55	9.50	9.41	9.30	9.19	9.14	9.08				
35.0	10.22	10.39	10.47	10.48	10.43	10.34	10.24	10.19	10.13	10.08	10.04	9.99	
40.0	10.96	11.23	11.39	11.47	11.47	11.43	11.35	11.31	11.26	11.21	11.17	11.10	11.07
45.0		12.09	12.35	12.51	12.58	12.59	12.56	12.53	12.49	12.46	12.42	12.35	12.31
50.0			13.38	13.63	13.79	13.87	13.89	13.89	13.87	13.85	13.82	13.77	13.73
55.0				14.87	15.13	15.30	15.39	15.41	15.42	15.42	15.42	15.40	15.37
60.0					16.63	16.89	17.07	17.12	17.18	17.21	17.24	17.26	17.26
65.0						18.70	18.98	19.07	19.18	19.25	19.31		
68.0						19.90	20.25	20.36	20.50				

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	20.70	25.50	31.00	37.50										
20.0	20.50	25.30	30.90	37.50	45.00									
25.0	20.20	25.10	30.70	37.30	44.80	53.50								
30.0	19.95	24.80	30.50	37.10	44.60	53.30	63.10	67.40	74.20					
35.0	19.60	24.50	30.20	36.80	44.30	52.90	62.70	67.00	73.90	80.00	86.40	100.50		
40.0	19.30	24.20	29.90	36.40	43.90	52.50	62.30	66.60	73.40	79.50	85.90	100.00	116.00	
45.0		23.90	29.50	36.00	43.40	52.00	61.70	66.00	72.80	78.80	85.30	99.40	115.50	
50.0			29.10	35.50	42.90	51.30	61.00	65.30	72.10	78.10	84.60	98.70	114.50	
55.0				35.00	42.30	50.70	60.30	64.50	71.30	77.40	83.80	98.00	114.00	
60.0					41.70	50.00	59.60	63.80	70.60	76.70	83.10	97.40	113.50	
65.0						49.60	59.20	63.40	70.20	76.40	82.90			
68.0						49.10	58.70	62.90	69.70					

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	6.93
Length/Width, mm	242/242
Height, mm	418
Net Weight, kg	33
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	22.8
Locked Rotor Current, A	108
Winding Resistance, ohm	0.58/0.87 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

50 Hz

ZH09K1P-PFZ

R410A Dew Point

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Crankcase Heater

40 W External

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