



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	5.61	6.85	8.33	10.10									
20.0	5.42	6.65	8.11	9.83	11.85								
25.0	5.11	6.31	7.73	9.40	11.35	13.60							
30.0	4.80	5.96	7.33	8.94	10.80	13.00	15.50	16.60	18.40				
35.0	4.49	5.60	6.92	8.45	10.25	12.30	14.75	15.80	17.50	19.00	20.60	24.20	
40.0	4.17	5.23	6.48	7.94	9.63	11.60	13.90	14.90	16.50	17.95	19.50	22.90	26.70
45.0		4.85	6.02	7.39	8.99	10.85	13.00	13.95	15.45	16.85	18.30	21.50	25.20
50.0			5.53	6.81	8.29	10.05	12.05	12.95	14.35	15.65	17.05	20.10	23.50
55.0				6.18	7.55	9.16	11.05	11.85	13.20	14.40	15.70	18.55	21.80
60.0					6.76	8.22	9.93	10.70	11.90	13.05	14.20	16.85	19.90
65.0						7.19	8.73	9.42	10.55	11.55	12.65		
68.0						6.53	7.96	8.60	9.64				

50 Hz

ZH12K1P-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	1.90	1.89	1.87	1.86									
20.0	2.03	2.03	2.01	2.00	1.99								
25.0	2.26	2.28	2.26	2.24	2.22	2.22							
30.0	2.49	2.54	2.54	2.52	2.49	2.47	2.48	2.49	2.53				
35.0	2.73	2.81	2.83	2.83	2.80	2.77	2.76	2.76	2.77	2.80	2.83	2.95	
40.0	2.97	3.09	3.15	3.16	3.14	3.12	3.09	3.08	3.08	3.09	3.11	3.18	3.32
45.0		3.39	3.48	3.53	3.53	3.50	3.47	3.46	3.45	3.44	3.45	3.48	3.58
50.0			3.84	3.92	3.94	3.93	3.91	3.89	3.88	3.86	3.86	3.86	3.92
55.0				4.34	4.40	4.41	4.39	4.38	4.36	4.35	4.33	4.32	4.34
60.0					4.89	4.93	4.93	4.93	4.91	4.90	4.88	4.86	4.85
65.0						5.49	5.53	5.53	5.52	5.51	5.50		
68.0						5.85	5.91	5.91	5.91				

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	10.01	9.98	9.91	9.86									
20.0	10.61	10.61	10.54	10.46	10.43								
25.0	11.59	11.66	11.62	11.53	11.45	11.44							
30.0	12.57	12.73	12.75	12.68	12.58	12.50	12.52	12.57	12.69				
35.0	13.55	13.84	13.94	13.91	13.82	13.71	13.66	13.67	13.72	13.81	13.95	14.41	
40.0	14.52	14.97	15.19	15.24	15.19	15.08	14.98	14.96	14.96	14.99	15.07	15.37	15.92
45.0		16.15	16.51	16.67	16.68	16.60	16.50	16.46	16.42	16.41	16.44	16.60	16.98
50.0			17.91	18.21	18.31	18.29	18.20	18.16	18.11	18.07	18.06	18.13	18.36
55.0				19.86	20.09	20.16	20.11	20.08	20.02	19.98	19.95	19.94	20.07
60.0					22.01	22.20	22.23	22.22	22.18	22.14	22.10	22.05	22.10
65.0						24.42	24.57	24.58	24.58	24.56	24.53		
68.0						25.85	26.07	26.11	26.14				

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	28.90	34.80	41.90	50.10										
20.0	28.60	34.70	41.80	50.10	59.80									
25.0	28.20	34.40	41.60	50.00	59.70	70.90								
30.0	27.80	34.10	41.30	49.80	59.50	70.80	83.70	89.30	98.30					
35.0	27.40	33.70	41.00	49.50	59.20	70.50	83.40	89.00	98.00	106.00	114.50	133.50		
40.0	26.90	33.30	40.60	49.00	58.80	70.00	82.90	88.50	97.50	105.50	114.00	133.00	154.00	
45.0		32.80	40.10	48.50	58.20	69.30	82.10	87.80	96.80	105.00	113.50	132.50	153.50	
50.0			39.40	47.80	57.40	68.50	81.20	86.80	95.80	104.00	112.50	131.50	152.50	
55.0				46.90	56.40	67.40	80.10	85.60	94.60	102.50	111.50	130.00	152.00	
60.0					55.30	66.20	78.80	84.40	93.30	101.50	110.00	129.00	151.00	
65.0						65.00	77.60	83.20	92.20	100.50	109.00			
68.0							63.80	76.30	81.90	91.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.90
Length/Width, mm	242/242
Height, mm	418
Net Weight, kg	35
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	65
Sound Power (HT), dBA	76
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	3.80
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	27.9
Locked Rotor Current, A	130
Winding Resistance, ohm	0.51/1.01 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

50 Hz

ZH12K1P-PFZ

R410A Dew Point

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

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