



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
17.0	1.50	1.92	2.43									
20.0	1.45	1.86	2.36	2.97								
25.0	1.36	1.77	2.25	2.84	3.54	4.36						
30.0	1.28	1.67	2.14	2.70	3.37	4.16	5.08	5.49				
35.0	1.20	1.57	2.02	2.56	3.20	3.95	4.83	5.22	5.85	6.42	7.02	
40.0	1.10	1.46	1.90	2.41	3.02	3.74	4.58	4.95	5.55	6.09	6.67	7.94
45.0	1.01	1.35	1.76	2.25	2.83	3.51	4.31	4.66	5.23	5.75	6.30	7.51
50.0		1.24	1.62	2.09	2.63	3.27	4.03	4.36	4.90	5.39	5.91	7.07
55.0			1.48	1.92	2.43	3.03	3.74	4.05	4.56	5.02	5.52	6.62
60.0				1.74	2.21	2.78	3.44	3.73	4.21	4.65	5.11	6.15
65.0					2.00	2.52	3.13	3.40	3.85	4.25	4.69	
67.0						2.41	3.00	3.27	3.70	4.09	4.52	

50 Hz

ZH12K4E-PFZ

R407C 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
17.0	0.62	0.64	0.66									
20.0	0.65	0.67	0.70	0.72								
25.0	0.70	0.73	0.76	0.78	0.80	0.82						
30.0	0.76	0.80	0.82	0.85	0.87	0.89	0.91	0.92				
35.0	0.83	0.87	0.90	0.93	0.95	0.98	1.00	1.01	1.02	1.02	1.03	
40.0	0.91	0.95	0.98	1.02	1.04	1.07	1.10	1.10	1.12	1.12	1.13	1.14
45.0	1.00	1.04	1.08	1.12	1.14	1.18	1.20	1.22	1.23	1.24	1.25	1.27
50.0		1.15	1.19	1.23	1.27	1.30	1.32	1.34	1.36	1.36	1.38	1.40
55.0			1.32	1.36	1.40	1.43	1.46	1.48	1.50	1.51	1.52	1.55
60.0				1.50	1.54	1.58	1.62	1.64	1.66	1.68	1.69	1.72
65.0					1.72	1.76	1.80	1.82	1.84	1.86	1.88	
67.0						1.84	1.88	1.90	1.92	1.94	1.96	

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
17.0	2.82	2.93	3.03									
20.0	2.94	3.06	3.17	3.26								
25.0	3.15	3.28	3.40	3.51	3.60	3.68						
30.0	3.40	3.54	3.67	3.79	3.90	3.99	4.05	4.07				
35.0	3.69	3.83	3.97	4.10	4.23	4.33	4.42	4.44	4.48	4.50	4.51	
40.0	4.04	4.18	4.33	4.47	4.60	4.72	4.83	4.86	4.91	4.94	4.96	4.98
45.0	4.45	4.60	4.75	4.90	5.04	5.17	5.29	5.34	5.39	5.43	5.47	5.51
50.0		5.09	5.24	5.40	5.55	5.70	5.83	5.88	5.94	5.99	6.04	6.10
55.0			5.82	5.98	6.14	6.30	6.44	6.50	6.58	6.63	6.69	6.77
60.0				6.67	6.83	7.00	7.15	7.21	7.30	7.36	7.43	7.53
65.0					7.63	7.80	7.97	8.03	8.12	8.20	8.27	
67.0						8.16	8.32	8.39	8.48	8.56	8.63	

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
17.0	7.97	10.05	12.50									
20.0	7.90	9.99	12.50	15.45								
25.0	7.78	9.89	12.40	15.40	18.90	23.00						
30.0	7.63	9.77	12.30	15.30	18.80	22.80	27.50	29.50				
35.0	7.45	9.62	12.15	15.15	18.65	22.70	27.30	29.40	32.60	35.50	38.60	
40.0	7.26	9.44	12.00	15.00	18.45	22.50	27.10	29.20	32.40	35.30	38.40	45.10
45.0	7.03	9.23	11.80	14.80	18.25	22.30	26.90	28.90	32.10	35.00	38.10	44.80
50.0		8.99	11.55	14.50	17.95	22.00	26.60	28.60	31.80	34.70	37.80	44.50
55.0			11.25	14.20	17.65	21.60	26.20	28.20	31.40	34.30	37.40	44.10
60.0				13.90	17.30	21.20	25.80	27.80	31.00	33.90	36.90	43.70
65.0					16.85	20.80	25.30	27.30	30.50	33.40	36.50	
67.0						20.60	25.10	27.10	30.30	33.20	36.30	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	4.68
Length/Width, mm	272/193
Height, mm	388
Net Weight, kg	21.3
Gross Weight, kg	23.3
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, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	NA (0)
Sound Pressure @ 1m (HT), dBA	53
Sound Power (HT), dBA	64
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	9.9
Locked Rotor Current, A	44
Winding Resistance, ohm	1.79
Default Enclosure Class	IP 21 (IEC 34)

50 Hz

ZH12K4E-PFZ

R407C 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