



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 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
10.0	1.80	2.25	2.77	3.39	4.11					
15.0	1.68	2.10	2.61	3.21	3.91					
20.0	1.56	1.98	2.47	3.04	3.72	4.49				
25.0	1.45	1.86	2.33	2.89	3.53	4.28	5.14			
30.0	1.35	1.74	2.20	2.74	3.35	4.07	4.89	5.83	6.25	
35.0	1.26	1.64	2.08	2.59	3.18	3.86	4.65	5.55	5.94	6.57
40.0	1.18	1.54	1.96	2.44	3.01	3.66	4.41	5.27	5.64	6.24
45.0	1.09	1.44	1.84	2.30	2.83	3.45	4.16	4.98	5.34	5.91
50.0		1.34	1.72	2.15	2.66	3.24	3.91	4.69	5.02	5.57
55.0			1.59	2.00	2.47	3.02	3.66	4.39	4.71	5.22
60.0				1.84	2.28	2.80	3.39	4.08	4.38	4.86
65.0					2.09	2.56	3.12	3.76	4.04	4.49
70.0					1.88	2.31	2.83	3.42	3.68	4.11

50 Hz

ZH04KCU-PFZN

R290

Cond °C	Power, kW									
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	0.66	0.68	0.70	0.72	0.76					
15.0	0.71	0.73	0.75	0.77	0.80					
20.0	0.76	0.79	0.81	0.83	0.86	0.89				
25.0	0.82	0.85	0.88	0.90	0.92	0.95	0.99			
30.0	0.88	0.92	0.95	0.98	1.00	1.03	1.06	1.10	1.13	
35.0	0.95	0.99	1.03	1.06	1.08	1.12	1.14	1.18	1.20	1.24
40.0	1.02	1.08	1.12	1.15	1.18	1.20	1.24	1.28	1.30	1.32
45.0	1.09	1.16	1.20	1.25	1.28	1.31	1.34	1.38	1.40	1.42
50.0		1.24	1.30	1.34	1.38	1.42	1.46	1.49	1.50	1.53
55.0			1.39	1.44	1.50	1.54	1.58	1.61	1.62	1.65
60.0				1.56	1.61	1.66	1.70	1.74	1.76	1.78
65.0					1.72	1.78	1.83	1.88	1.89	1.92
70.0					1.84	1.91	1.96	2.02	2.04	2.06

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
10.0	4.16	4.24	4.32	4.41	4.53					
15.0	4.34	4.42	4.50	4.59	4.70					
20.0	4.54	4.64	4.72	4.81	4.91	5.03				
25.0	4.77	4.88	4.98	5.06	5.16	5.27	5.42			
30.0	5.01	5.15	5.26	5.35	5.45	5.56	5.69	5.87	5.95	
35.0	5.26	5.43	5.56	5.68	5.78	5.89	6.02	6.17	6.25	6.37
40.0	5.53	5.73	5.89	6.03	6.14	6.26	6.38	6.53	6.60	6.72
45.0	5.81	6.05	6.24	6.40	6.54	6.66	6.79	6.94	7.00	7.11
50.0		6.38	6.61	6.80	6.96	7.10	7.24	7.39	7.45	7.56
55.0			6.99	7.22	7.41	7.57	7.73	7.88	7.95	8.05
60.0				7.65	7.88	8.07	8.24	8.41	8.48	8.59
65.0					8.37	8.59	8.79	8.98	9.05	9.17
70.0					8.87	9.14	9.37	9.58	9.66	9.78

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
10.0	5.48	6.70	8.12	9.76	11.65					
15.0	5.29	6.53	7.96	9.60	11.50					
20.0	5.13	6.38	7.82	9.47	11.35	13.50				
25.0	5.00	6.27	7.72	9.37	11.25	13.35	15.75			
30.0	4.89	6.18	7.63	9.29	11.15	13.30	15.65	18.35	19.50	
35.0	4.80	6.10	7.57	9.22	11.10	13.20	15.55	18.25	19.40	21.20
40.0	4.73	6.04	7.51	9.16	11.05	13.15	15.50	18.15	19.30	21.10
45.0	4.66	5.99	7.46	9.12	10.95	13.05	15.40	18.05	19.20	21.00
50.0		5.94	7.42	9.07	10.90	13.00	15.35	17.95	19.10	20.90
55.0			7.36	9.01	10.85	12.90	15.25	17.85	18.95	20.80
60.0				8.93	10.75	12.80	15.15	17.70	18.85	20.60
65.0					10.65	12.70	15.00	17.60	18.70	20.50
70.0					10.50	12.55	14.85	17.40	18.55	20.30

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	5.76
Length/Width, mm	253/243
Height, mm	364
Net Weight, kg	23.7
Gross Weight, kg	25
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.3
Oil type (original charge)	POE Hatcol 4467
Oil type (approved oils)	POE Hatcol 4467
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	60
Sound Power (HT), dBA	71
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	-7 / 35 / 3 °C at 50 Hz
PED Category	2
Max. Low Side Internal Free Volume, l	4.1
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.60
High Side PS gauge, bar	28
Low Side PS gauge, bar	17
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High Side TS Min., °C	-35
Refrigerant's GWP	3
Refrigerant's classification	A3

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

Maximum Operating Current, A	11.6
Locked Rotor Current, A	58
Winding Resistance, ohm	7.1
Default Enclosure Class	IP 65 (IEC 60529)

**ACCESSORIES INCLUDED****ACCESSORIES OPTIONAL**

50 Hz

ZH04KCU-PFZN

R290

## **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