



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	2.31	2.90	3.60	4.44	5.42					
15.0	2.20	2.78	3.46	4.27	5.22					
20.0	2.10	2.65	3.32	4.10	5.02	6.08				
25.0	1.99	2.53	3.17	3.92	4.80	5.82	7.00			
30.0	1.88	2.40	3.01	3.73	4.58	5.56	6.69	7.98	8.55	
35.0	1.76	2.26	2.85	3.54	4.35	5.29	6.37	7.61	8.15	9.01
40.0	1.66	2.13	2.69	3.35	4.11	5.01	6.04	7.22	7.74	8.56
45.0	1.54	2.00	2.52	3.14	3.87	4.72	5.69	6.82	7.31	8.10
50.0		1.86	2.35	2.93	3.62	4.42	5.34	6.41	6.87	7.63
55.0			2.18	2.72	3.36	4.11	4.98	5.98	6.43	7.14
60.0				2.51	3.10	3.80	4.61	5.55	5.97	6.63
65.0					2.83	3.47	4.23	5.10	5.49	6.12
70.0					2.56	3.14	3.84	4.65	5.01	5.59

50 Hz

ZH06KCU-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	1.01	1.02	1.04	1.06	1.08					
15.0	1.06	1.09	1.12	1.14	1.16					
20.0	1.12	1.16	1.19	1.22	1.25	1.28				
25.0	1.20	1.23	1.27	1.30	1.34	1.38	1.42			
30.0	1.27	1.31	1.35	1.40	1.44	1.48	1.52	1.56	1.58	
35.0	1.36	1.40	1.44	1.50	1.54	1.58	1.64	1.68	1.70	1.73
40.0	1.45	1.50	1.55	1.60	1.66	1.70	1.76	1.80	1.82	1.86
45.0	1.56	1.62	1.67	1.72	1.78	1.83	1.88	1.94	1.96	2.00
50.0		1.75	1.80	1.86	1.92	1.98	2.03	2.09	2.11	2.14
55.0			1.96	2.02	2.07	2.13	2.19	2.25	2.27	2.31
60.0				2.19	2.25	2.31	2.37	2.43	2.45	2.49
65.0					2.44	2.50	2.56	2.62	2.65	2.68
70.0					2.66	2.72	2.78	2.84	2.86	2.90

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	6.84	6.82	6.80	6.79	6.79					
15.0	6.88	6.89	6.90	6.93	6.95					
20.0	6.94	6.98	7.02	7.08	7.13	7.20				
25.0	7.03	7.10	7.17	7.25	7.34	7.43	7.53			
30.0	7.17	7.26	7.36	7.47	7.58	7.70	7.83	7.95	8.00	
35.0	7.35	7.47	7.60	7.73	7.87	8.02	8.17	8.32	8.38	8.47
40.0	7.61	7.75	7.90	8.06	8.22	8.39	8.56	8.74	8.81	8.92
45.0	7.94	8.11	8.28	8.46	8.64	8.83	9.03	9.22	9.30	9.42
50.0		8.55	8.74	8.94	9.14	9.35	9.57	9.79	9.87	10.01
55.0			9.30	9.52	9.74	9.97	10.20	10.44	10.54	10.68
60.0				10.21	10.45	10.69	10.94	11.20	11.30	11.45
65.0					11.27	11.53	11.80	12.06	12.17	12.33
70.0					12.23	12.50	12.78	13.06	13.17	13.34

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	7.02	8.65	10.55	12.80	15.35					
15.0	6.97	8.62	10.55	12.80	15.35					
20.0	6.92	8.58	10.50	12.75	15.30	18.25				
25.0	6.86	8.54	10.50	12.75	15.30	18.20	21.50			
30.0	6.80	8.49	10.45	12.70	15.25	18.15	21.40	25.10	26.70	
35.0	6.73	8.43	10.40	12.60	15.15	18.05	21.30	25.00	26.60	29.00
40.0	6.67	8.37	10.30	12.55	15.10	17.95	21.20	24.90	26.40	28.90
45.0	6.60	8.31	10.25	12.45	15.00	17.85	21.10	24.70	26.30	28.80
50.0		8.24	10.15	12.35	14.90	17.70	20.90	24.50	26.10	28.60
55.0			10.10	12.25	14.75	17.55	20.80	24.30	25.90	28.40
60.0				12.15	14.60	17.40	20.60	24.10	25.70	28.10
65.0					14.45	17.20	20.30	23.90	25.40	27.90
70.0					14.30	17.00	20.10	23.70	25.20	27.70

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	8.04
Length/Width, mm	253/243
Height, mm	387
Net Weight, kg	26.3
Gross Weight, kg	28
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
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:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Low Side Internal Free Volume, l	4.2
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.70
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	18.5
Locked Rotor Current, A	76
Winding Resistance, ohm	2.07/0.94 (R/S)
Default Enclosure Class	IP 65 (IEC 60529)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Standard
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50 Hz

ZH06KCU-PFZN

R290

### **ACCESSORIES OPTIONAL**

Crankcase Heater	55 W External
Discharge Temperature Protection	Discharge line thermostat
Single Phase Equipment	Run Capacitor
Single Phase Equipment	Start Relay and Capacitor

### **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