



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	2.92	3.65	4.52	5.54	6.72					
15.0	2.79	3.51	4.36	5.36	6.52					
20.0	2.64	3.35	4.19	5.16	6.29	7.59				
25.0	2.49	3.19	4.00	4.95	6.04	7.30	8.74			
30.0	2.34	3.01	3.80	4.71	5.77	6.99	8.38	9.96	10.65	
35.0	2.17	2.83	3.58	4.46	5.48	6.65	7.99	9.52	10.20	11.25
40.0	2.01	2.63	3.36	4.20	5.18	6.30	7.58	9.05	9.69	10.70
45.0	1.84	2.44	3.13	3.93	4.86	5.93	7.16	8.56	9.17	10.15
50.0		2.23	2.89	3.65	4.52	5.54	6.71	8.04	8.62	9.56
55.0			2.64	3.35	4.18	5.14	6.24	7.50	8.05	8.94
60.0				3.05	3.82	4.72	5.75	6.94	7.47	8.30
65.0					3.46	4.29	5.25	6.36	6.86	7.64
70.0					3.08	3.85	4.74	5.77	6.23	6.96

50 Hz

ZH08KCU-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	1.20	1.20	1.22	1.22	1.23					
15.0	1.30	1.31	1.32	1.33	1.34					
20.0	1.41	1.42	1.44	1.44	1.46	1.47				
25.0	1.52	1.54	1.55	1.56	1.58	1.60	1.61			
30.0	1.64	1.66	1.68	1.70	1.72	1.74	1.75	1.77	1.78	
35.0	1.78	1.80	1.82	1.84	1.86	1.88	1.90	1.92	1.93	1.94
40.0	1.93	1.95	1.98	2.00	2.02	2.05	2.07	2.09	2.10	2.12
45.0	2.10	2.12	2.15	2.17	2.20	2.23	2.26	2.28	2.29	2.31
50.0		2.31	2.34	2.37	2.40	2.43	2.46	2.49	2.50	2.52
55.0			2.56	2.59	2.62	2.65	2.69	2.72	2.74	2.76
60.0				2.83	2.87	2.90	2.94	2.98	2.99	3.02
65.0					3.14	3.18	3.22	3.26	3.28	3.30
70.0					3.45	3.49	3.53	3.58	3.60	3.62

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	9.92	9.93	9.94	9.94	9.95					
15.0	10.10	10.11	10.12	10.14	10.15					
20.0	10.28	10.30	10.32	10.34	10.36	10.38				
25.0	10.48	10.51	10.54	10.57	10.59	10.62	10.65			
30.0	10.72	10.76	10.80	10.83	10.87	10.91	10.95	10.99	11.01	
35.0	11.01	11.06	11.11	11.16	11.21	11.26	11.31	11.36	11.39	11.42
40.0	11.37	11.43	11.49	11.56	11.62	11.68	11.75	11.81	11.84	11.88
45.0	11.82	11.89	11.96	12.04	12.12	12.20	12.27	12.35	12.39	12.43
50.0		12.44	12.53	12.62	12.72	12.81	12.91	13.00	13.04	13.10
55.0			13.22	13.33	13.44	13.55	13.66	13.77	13.82	13.89
60.0				14.16	14.29	14.42	14.55	14.68	14.74	14.82
65.0					15.29	15.44	15.59	15.75	15.81	15.90
70.0					16.46	16.63	16.80	16.98	17.05	17.15

50 Hz

ZH08KCU-PFZN

R290

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	8.87	10.90	13.25	15.95	19.05					
15.0	8.81	10.90	13.30	16.00	19.15					
20.0	8.72	10.85	13.30	16.05	19.20	22.80				
25.0	8.61	10.75	13.25	16.05	19.25	22.80	26.80			
30.0	8.46	10.65	13.15	16.00	19.20	22.80	26.80	31.30	33.20	
35.0	8.29	10.55	13.05	15.90	19.10	22.70	26.80	31.30	33.20	36.20
40.0	8.09	10.35	12.90	15.75	19.00	22.60	26.70	31.20	33.10	36.20
45.0	7.86	10.15	12.70	15.60	18.80	22.40	26.50	31.00	33.00	36.00
50.0		9.92	12.50	15.35	18.60	22.20	26.30	30.80	32.70	35.80
55.0			12.25	15.10	18.35	21.90	26.00	30.50	32.50	35.50
60.0				14.80	18.00	21.60	25.70	30.20	32.10	35.20
65.0					17.65	21.20	25.30	29.80	31.70	34.80
70.0					17.25	20.80	24.80	29.40	31.30	34.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	10.0
Length/Width, mm	253/243
Height, mm	401
Net Weight, kg	27.9
Gross Weight, kg	29.3
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	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	2
Max. Low Side Internal Free Volume, l	4.3
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.80
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	20.6
Locked Rotor Current, A	97
Winding Resistance, ohm	1.65/0.69 (R/S)
Default Enclosure Class	IP 65 (IEC 60529)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
-------------------	----------

50 Hz

ZH08KCU-PFZN

R290

ACCESSORIES OPTIONAL

Discharge Temperature Protection
Single Phase Equipment
Crankcase Heater
Single Phase Equipment

Discharge line thermostat
Run Capacitor
55 W External
Start Relay and Capacitor

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