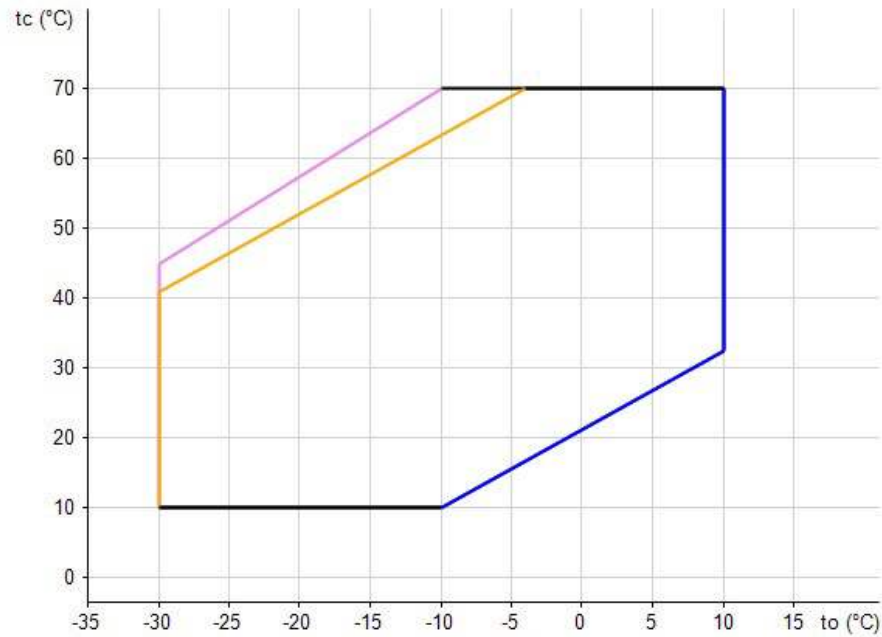




Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 20 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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	3.62	4.54	5.64	6.94	8.46					
15.0	3.46	4.36	5.43	6.69	8.17					
20.0	3.30	4.17	5.21	6.44	7.86	9.52				
25.0	3.14	3.98	4.99	6.17	7.55	9.14	10.95			
30.0	2.97	3.79	4.76	5.90	7.22	8.76	10.50	12.50	13.40	
35.0	2.81	3.59	4.52	5.61	6.89	8.36	10.05	12.00	12.80	14.15
40.0	2.64	3.39	4.28	5.33	6.54	7.96	9.58	11.40	12.25	13.50
45.0	2.47	3.19	4.04	5.03	6.19	7.54	9.08	10.85	11.65	12.85
50.0		2.99	3.79	4.73	5.83	7.11	8.58	10.25	11.00	12.20
55.0			3.54	4.43	5.46	6.67	8.07	9.67	10.40	11.50
60.0				4.12	5.09	6.23	7.55	9.07	9.73	10.80
65.0					4.72	5.78	7.02	8.45	9.08	10.10
70.0					4.34	5.33	6.49	7.83	8.42	9.37

50 Hz ZH09KCU-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	1.35	1.36	1.37	1.38	1.39					
15.0	1.47	1.48	1.50	1.52	1.53					
20.0	1.60	1.62	1.64	1.66	1.68	1.70				
25.0	1.72	1.74	1.77	1.80	1.82	1.85	1.88			
30.0	1.85	1.88	1.92	1.94	1.98	2.01	2.04	2.07	2.08	
35.0	1.99	2.03	2.07	2.10	2.14	2.18	2.22	2.25	2.27	2.29
40.0	2.14	2.18	2.23	2.27	2.31	2.36	2.40	2.45	2.46	2.49
45.0	2.30	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.68	2.71
50.0		2.53	2.59	2.65	2.70	2.76	2.82	2.88	2.90	2.94
55.0			2.79	2.86	2.92	2.99	3.05	3.12	3.15	3.19
60.0				3.09	3.16	3.23	3.31	3.38	3.41	3.45
65.0					3.42	3.50	3.58	3.66	3.70	3.75
70.0					3.70	3.79	3.88	3.97	4.01	4.06

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	8.20	8.24	8.28	8.32	8.36					
15.0	8.62	8.68	8.73	8.78	8.84					
20.0	9.05	9.12	9.18	9.25	9.33	9.40				
25.0	9.48	9.57	9.66	9.75	9.83	9.92	10.02			
30.0	9.94	10.05	10.15	10.27	10.38	10.49	10.60	10.71	10.76	
35.0	10.43	10.56	10.69	10.82	10.96	11.10	11.23	11.37	11.43	11.51
40.0	10.96	11.11	11.27	11.43	11.59	11.76	11.92	12.09	12.16	12.26
45.0	11.54	11.73	11.91	12.10	12.29	12.49	12.68	12.88	12.95	13.07
50.0		12.41	12.63	12.84	13.07	13.29	13.52	13.74	13.84	13.97
55.0			13.41	13.67	13.92	14.18	14.44	14.70	14.81	14.97
60.0				14.58	14.87	15.17	15.47	15.77	15.89	16.07
65.0					15.93	16.26	16.60	16.94	17.08	17.28
70.0					17.10	17.48	17.86	18.24	18.39	18.62

50 Hz

ZH09KCU-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	10.25	12.65	15.40	18.65	22.40					
15.0	10.15	12.55	15.40	18.65	22.40					
20.0	10.10	12.50	15.35	18.60	22.30	26.60				
25.0	9.98	12.40	15.25	18.50	22.30	26.50	31.20			
30.0	9.87	12.30	15.15	18.45	22.20	26.40	31.10	36.40	38.70	
35.0	9.75	12.20	15.05	18.35	22.10	26.30	31.00	36.30	38.50	42.10
40.0	9.63	12.10	14.95	18.20	21.90	26.10	30.80	36.10	38.40	41.90
45.0	9.51	12.00	14.85	18.05	21.80	25.90	30.60	35.90	38.10	41.70
50.0		11.85	14.70	17.90	21.60	25.70	30.40	35.60	37.90	41.50
55.0			14.55	17.75	21.40	25.50	30.20	35.40	37.60	41.20
60.0				17.60	21.20	25.30	29.90	35.10	37.40	40.90
65.0					21.00	25.10	29.70	34.80	37.10	40.60
70.0					20.80	24.80	29.40	34.60	36.80	40.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.7
Length/Width, mm	254/266
Height, mm	442
Net Weight, kg	37.9
Gross Weight, kg	39.8
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.89
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	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	2
Max. Low Side Internal Free Volume, l	6.4
Max. High Side Internal Free Volume, l	0.6
Max. Internal Free Volume, l	7.00
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)

Locked Rotor Current, A	108
Winding Resistance, ohm	1.95/0.6 (R/S)
Default Enclosure Class	IP 54/65

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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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

50 Hz

ZH09KCU-PFZN

R290

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
PFZ	220-240 V / 1~ / 50 Hz	230		PSC	1.00