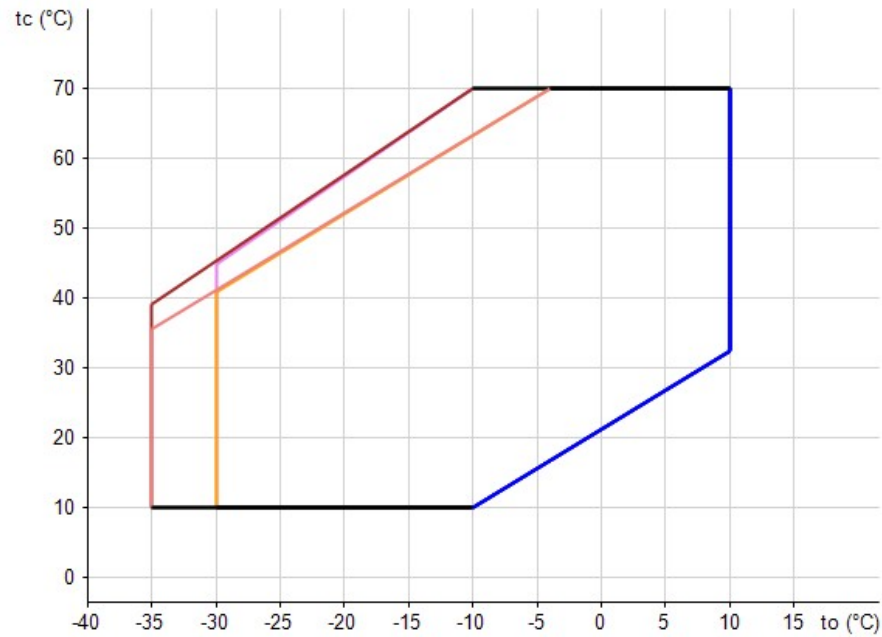




Minimum Evaporating Temp. With:

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

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.55	3.19	3.96	4.87	5.94	7.18					
15.0	2.41	3.05	3.81	4.71	5.76	6.98					
20.0	2.27	2.90	3.65	4.53	5.56	6.75	8.11				
25.0	2.12	2.75	3.48	4.34	5.34	6.49	7.82	9.34			
30.0	1.97	2.58	3.30	4.13	5.10	6.22	7.51	8.97	10.65	11.35	
35.0	1.81	2.41	3.11	3.91	4.85	5.93	7.17	8.59	10.20	10.90	12.00
40.0		2.24	2.91	3.68	4.58	5.62	6.82	8.18	9.73	10.40	11.50
45.0		2.06	2.70	3.45	4.31	5.30	6.44	7.75	9.24	9.89	10.90
50.0			2.49	3.20	4.02	4.97	6.05	7.30	8.72	9.35	10.35
55.0				2.95	3.72	4.62	5.65	6.83	8.19	8.78	9.73
60.0					3.42	4.26	5.23	6.35	7.64	8.20	9.10
65.0						3.90	4.81	5.86	7.07	7.60	8.46
70.0						3.53	4.38	5.36	6.49	6.99	7.80

50 Hz

ZH08KCU-TFD

R290

Cond °C	Power, kW										
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	1.09	1.10	1.10	1.10	1.12	1.12					
15.0	1.19	1.20	1.20	1.22	1.23	1.24					
20.0	1.30	1.30	1.32	1.33	1.34	1.36	1.36				
25.0	1.40	1.42	1.44	1.45	1.46	1.48	1.50	1.51			
30.0	1.52	1.54	1.56	1.58	1.60	1.62	1.64	1.65	1.67	1.68	
35.0	1.66	1.68	1.70	1.72	1.74	1.76	1.78	1.80	1.83	1.84	1.85
40.0		1.83	1.86	1.88	1.90	1.93	1.95	1.98	2.00	2.01	2.02
45.0		2.00	2.03	2.05	2.08	2.11	2.13	2.16	2.19	2.20	2.21
50.0			2.21	2.24	2.27	2.30	2.33	2.36	2.39	2.40	2.42
55.0				2.46	2.49	2.52	2.55	2.59	2.62	2.63	2.65
60.0					2.73	2.76	2.80	2.83	2.87	2.88	2.90
65.0						3.03	3.07	3.10	3.14	3.16	3.18
70.0						3.32	3.36	3.40	3.44	3.46	3.48

Cond °C	Current at 400 V, A										
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.87	2.88	2.88	2.89	2.89	2.90					
15.0	2.97	2.97	2.98	2.99	3.00	3.01					
20.0	3.07	3.08	3.09	3.11	3.12	3.13	3.15				
25.0	3.19	3.20	3.22	3.24	3.25	3.27	3.29	3.30			
30.0	3.32	3.34	3.36	3.38	3.41	3.43	3.45	3.47	3.49	3.50	
35.0	3.48	3.50	3.53	3.55	3.58	3.60	3.63	3.66	3.68	3.69	3.71
40.0		3.68	3.72	3.75	3.78	3.81	3.84	3.87	3.90	3.91	3.93
45.0		3.90	3.93	3.97	4.00	4.04	4.07	4.11	4.14	4.16	4.18
50.0			4.18	4.22	4.26	4.30	4.34	4.38	4.42	4.44	4.46
55.0				4.51	4.55	4.60	4.64	4.69	4.73	4.75	4.78
60.0					4.89	4.94	4.99	5.04	5.09	5.11	5.14
65.0						5.32	5.37	5.43	5.48	5.51	5.54
70.0						5.74	5.80	5.86	5.93	5.95	5.99

50 Hz

ZH08KCU-TFD

R290

Cond °C	Suction Mass Flow, g/s										
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	7.34	9.03	11.00	13.30	16.00	19.00					
15.0	7.22	8.97	11.00	13.35	16.05	19.10					
20.0	7.06	8.87	10.95	13.35	16.05	19.15	22.60				
25.0	6.88	8.74	10.85	13.25	16.05	19.15	22.60	26.60			
30.0	6.67	8.57	10.75	13.20	15.95	19.10	22.60	26.50	30.90	32.80	
35.0	6.44	8.38	10.55	13.05	15.85	19.00	22.50	26.50	30.90	32.80	35.70
40.0		8.17	10.40	12.85	15.70	18.85	22.40	26.30	30.70	32.60	35.60
45.0		7.93	10.15	12.65	15.45	18.65	22.20	26.10	30.50	32.40	35.40
50.0			9.92	12.40	15.25	18.40	21.90	25.90	30.30	32.20	35.20
55.0				12.15	14.95	18.10	21.60	25.60	30.00	31.90	34.90
60.0					14.65	17.75	21.30	25.20	29.60	31.50	34.50
65.0						17.35	20.90	24.80	29.10	31.00	34.00
70.0						16.95	20.40	24.30	28.70	30.60	33.60

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 (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	6.8
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
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

50 Hz

ZH08KCU-TFD

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>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00