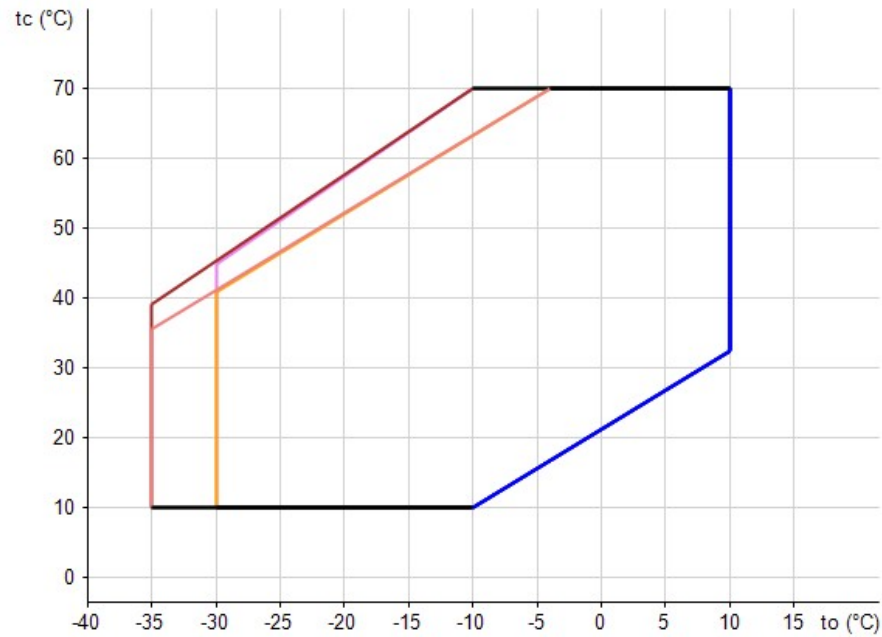




Minimum Evaporating Temp. With:

- 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	2.92	3.68	4.60	5.70	7.00	8.52					
15.0	2.76	3.51	4.41	5.48	6.74	8.22					
20.0	2.61	3.34	4.21	5.25	6.47	7.90	9.55				
25.0	2.46	3.17	4.01	5.02	6.20	7.57	9.17	11.00			
30.0	2.30	3.00	3.81	4.78	5.92	7.24	8.77	10.55	12.55	13.40	
35.0	2.16	2.82	3.61	4.54	5.63	6.90	8.37	10.05	12.00	12.80	14.15
40.0		2.65	3.41	4.30	5.34	6.55	7.95	9.56	11.40	12.20	13.50
45.0		2.49	3.21	4.05	5.04	6.19	7.53	9.07	10.85	11.60	12.85
50.0			3.00	3.80	4.74	5.83	7.09	8.56	10.25	10.95	12.15
55.0				3.56	4.43	5.46	6.66	8.04	9.63	10.35	11.45
60.0					4.13	5.09	6.21	7.51	9.01	9.68	10.75
65.0						4.72	5.76	6.98	8.39	9.02	10.00
70.0						4.34	5.31	6.44	7.76	8.35	9.29

50 Hz

ZH09KCU-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	1.27	1.28	1.29	1.30	1.31	1.32					
15.0	1.38	1.40	1.42	1.43	1.44	1.46					
20.0	1.50	1.52	1.54	1.56	1.58	1.60	1.62				
25.0	1.62	1.65	1.68	1.70	1.72	1.76	1.78	1.80			
30.0	1.75	1.78	1.82	1.84	1.88	1.90	1.94	1.97	2.00	2.01	
35.0	1.88	1.92	1.96	2.00	2.03	2.07	2.11	2.14	2.18	2.20	2.22
40.0		2.07	2.11	2.15	2.20	2.24	2.28	2.33	2.37	2.39	2.41
45.0		2.23	2.28	2.33	2.37	2.42	2.47	2.52	2.57	2.59	2.62
50.0			2.45	2.51	2.56	2.62	2.67	2.73	2.79	2.81	2.84
55.0				2.71	2.77	2.83	2.89	2.95	3.01	3.04	3.08
60.0					2.99	3.05	3.12	3.19	3.26	3.29	3.33
65.0						3.30	3.37	3.45	3.52	3.55	3.60
70.0						3.56	3.64	3.72	3.80	3.84	3.88

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	3.97	3.97	3.98	3.99	4.00	4.00					
15.0	4.06	4.07	4.08	4.09	4.11	4.12					
20.0	4.15	4.17	4.19	4.20	4.22	4.24	4.26				
25.0	4.26	4.28	4.30	4.33	4.35	4.37	4.40	4.42			
30.0	4.37	4.40	4.43	4.46	4.49	4.52	4.55	4.58	4.61	4.62	
35.0	4.49	4.53	4.57	4.60	4.64	4.68	4.71	4.75	4.79	4.81	4.83
40.0		4.68	4.72	4.76	4.81	4.85	4.90	4.95	4.99	5.01	5.04
45.0		4.84	4.89	4.94	5.00	5.05	5.10	5.16	5.22	5.24	5.27
50.0			5.08	5.14	5.21	5.27	5.33	5.40	5.46	5.49	5.53
55.0				5.37	5.44	5.51	5.59	5.66	5.73	5.76	5.81
60.0					5.70	5.78	5.87	5.95	6.04	6.07	6.12
65.0						6.08	6.18	6.27	6.37	6.41	6.46
70.0						6.41	6.52	6.63	6.73	6.78	6.84

50 Hz

ZH09KCU-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	8.42	10.40	12.80	15.60	18.85	22.60					
15.0	8.27	10.30	12.70	15.55	18.80	22.50					
20.0	8.12	10.20	12.60	15.45	18.70	22.40	26.60				
25.0	7.96	10.05	12.50	15.35	18.60	22.30	26.50	31.30			
30.0	7.81	9.94	12.40	15.25	18.50	22.20	26.40	31.10	36.40	38.70	
35.0	7.66	9.82	12.30	15.15	18.40	22.10	26.30	31.00	36.20	38.50	42.10
40.0		9.69	12.20	15.00	18.25	21.90	26.10	30.80	36.00	38.30	41.90
45.0		9.57	12.05	14.90	18.10	21.80	25.90	30.60	35.80	38.00	41.60
50.0			11.95	14.75	17.95	21.60	25.70	30.30	35.50	37.80	41.30
55.0				14.65	17.80	21.40	25.50	30.10	35.20	37.50	41.00
60.0					17.65	21.20	25.20	29.80	34.90	37.10	40.70
65.0						21.00	25.00	29.50	34.60	36.80	40.30
70.0						20.80	24.70	29.20	34.30	36.50	40.00

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

Maximum Operating Current, A	8.23
Locked Rotor Current, A	64
Winding Resistance, ohm	2.95
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

ZH09KCU-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