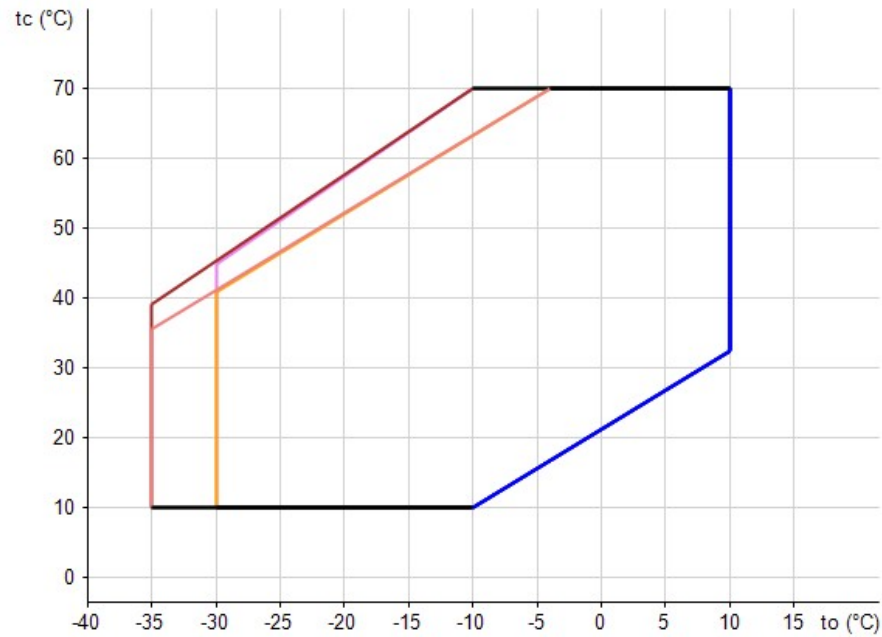




Minimum Evaporating Temp. With:

- 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	1.58	1.98	2.44	2.99	3.64	4.39					
15.0	1.46	1.84	2.29	2.83	3.46	4.19					
20.0	1.34	1.72	2.16	2.68	3.29	3.99	4.81				
25.0	1.24	1.60	2.03	2.54	3.12	3.80	4.59	5.49			
30.0	1.14	1.50	1.92	2.40	2.97	3.62	4.37	5.24	6.23	6.66	
35.0	1.06	1.40	1.80	2.27	2.81	3.44	4.16	4.99	5.94	6.35	7.01
40.0		1.31	1.70	2.15	2.66	3.26	3.96	4.75	5.66	6.05	6.68
45.0		1.23	1.60	2.02	2.52	3.09	3.75	4.50	5.37	5.75	6.35
50.0			1.49	1.90	2.37	2.91	3.53	4.25	5.08	5.44	6.01
55.0				1.78	2.22	2.73	3.32	4.00	4.78	5.12	5.67
60.0					2.06	2.54	3.10	3.74	4.47	4.80	5.32
65.0						2.34	2.86	3.47	4.16	4.47	4.96
70.0						2.14	2.62	3.19	3.84	4.12	4.59

50 Hz

ZH04KCU-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	0.56	0.59	0.61	0.63	0.66	0.69					
15.0	0.61	0.64	0.66	0.68	0.71	0.74					
20.0	0.66	0.69	0.72	0.74	0.77	0.80	0.83				
25.0	0.72	0.76	0.79	0.81	0.84	0.86	0.90	0.94			
30.0	0.78	0.82	0.86	0.89	0.92	0.94	0.97	1.01	1.06	1.08	
35.0	0.84	0.89	0.94	0.97	1.01	1.03	1.06	1.10	1.14	1.16	1.19
40.0		0.97	1.02	1.06	1.10	1.13	1.16	1.19	1.23	1.25	1.28
45.0		1.04	1.10	1.16	1.20	1.23	1.27	1.30	1.34	1.35	1.38
50.0			1.19	1.25	1.30	1.34	1.38	1.41	1.45	1.46	1.49
55.0				1.35	1.40	1.46	1.50	1.54	1.57	1.59	1.62
60.0					1.52	1.57	1.62	1.66	1.70	1.72	1.74
65.0						1.69	1.74	1.80	1.84	1.86	1.88
70.0						1.81	1.88	1.93	1.98	2.00	2.03

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	1.87	1.89	1.90	1.92	1.95	1.98					
15.0	1.90	1.93	1.95	1.96	1.99	2.01					
20.0	1.95	1.98	2.00	2.02	2.04	2.06	2.10				
25.0	1.99	2.03	2.06	2.08	2.10	2.13	2.16	2.20			
30.0	2.04	2.09	2.13	2.16	2.18	2.21	2.24	2.27	2.32	2.35	
35.0	2.10	2.16	2.20	2.24	2.27	2.30	2.33	2.36	2.41	2.43	2.47
40.0		2.23	2.29	2.33	2.37	2.40	2.43	2.47	2.51	2.53	2.56
45.0		2.30	2.37	2.43	2.47	2.51	2.55	2.58	2.63	2.65	2.68
50.0			2.46	2.53	2.59	2.63	2.68	2.72	2.76	2.78	2.81
55.0				2.64	2.71	2.77	2.81	2.86	2.91	2.93	2.96
60.0					2.84	2.90	2.96	3.02	3.07	3.09	3.12
65.0						3.05	3.12	3.18	3.24	3.26	3.30
70.0						3.20	3.29	3.36	3.43	3.45	3.49

50 Hz

ZH04KCU-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	4.58	5.60	6.79	8.19	9.79	11.65					
15.0	4.36	5.40	6.61	8.02	9.63	11.45					
20.0	4.17	5.24	6.46	7.87	9.49	11.35	13.40				
25.0	4.01	5.10	6.34	7.75	9.37	11.20	13.30	15.60			
30.0	3.87	4.98	6.23	7.65	9.27	11.10	13.20	15.50	18.10	19.20	
35.0	3.75	4.88	6.14	7.57	9.19	11.00	13.10	15.40	18.00	19.10	20.90
40.0		4.79	6.07	7.50	9.11	10.95	13.00	15.30	17.85	18.95	20.70
45.0		4.71	6.00	7.43	9.04	10.85	12.90	15.20	17.75	18.85	20.60
50.0			5.93	7.37	8.97	10.75	12.80	15.05	17.60	18.70	20.50
55.0				7.30	8.89	10.70	12.70	14.95	17.50	18.60	20.30
60.0					8.80	10.55	12.55	14.80	17.35	18.40	20.10
65.0						10.45	12.40	14.65	17.15	18.25	19.95
70.0						10.25	12.25	14.45	16.95	18.00	19.75

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	5.76
Length/Width, mm	253/243
Height, mm	364
Net Weight, kg	23.7
Gross Weight, kg	25
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.3
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	61
Sound Power (HT), dBA	72
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	4.1
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.60
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	4.1
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
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

ZH04KCU-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