



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	2.42	3.01	3.71	4.54	5.51					
15.0	2.30	2.87	3.55	4.36	5.30					
20.0	2.18	2.73	3.39	4.17	5.07	6.12				
25.0	2.06	2.59	3.23	3.97	4.84	5.85	6.99			
30.0	1.94	2.45	3.06	3.78	4.61	5.57	6.67	7.92	8.47	
35.0	1.82	2.31	2.89	3.57	4.37	5.29	6.34	7.54	8.06	8.90
40.0	1.70	2.17	2.72	3.37	4.12	5.00	6.01	7.15	7.65	8.45
45.0	1.59	2.03	2.54	3.16	3.87	4.70	5.66	6.75	7.23	7.99
50.0		1.88	2.37	2.94	3.62	4.40	5.30	6.34	6.79	7.51
55.0			2.19	2.73	3.36	4.09	4.94	5.92	6.34	7.03
60.0				2.50	3.09	3.77	4.57	5.48	5.89	6.53
65.0					2.82	3.45	4.19	5.04	5.42	6.02
70.0					2.54	3.12	3.80	4.59	4.94	5.50

50 Hz

ZH06KCU-TFMN

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	0.89	0.90	0.92	0.94	0.97					
15.0	0.96	0.97	0.99	1.02	1.04					
20.0	1.02	1.05	1.08	1.10	1.12	1.16				
25.0	1.10	1.13	1.16	1.18	1.22	1.25	1.29			
30.0	1.18	1.22	1.25	1.28	1.32	1.34	1.38	1.43	1.45	
35.0	1.26	1.30	1.35	1.38	1.42	1.46	1.50	1.54	1.56	1.58
40.0	1.34	1.40	1.46	1.50	1.54	1.58	1.62	1.66	1.67	1.70
45.0	1.42	1.50	1.56	1.62	1.66	1.70	1.74	1.78	1.80	1.83
50.0		1.60	1.68	1.74	1.80	1.85	1.89	1.94	1.95	1.98
55.0			1.80	1.88	1.94	2.00	2.05	2.09	2.11	2.14
60.0				2.03	2.10	2.17	2.22	2.27	2.29	2.32
65.0					2.27	2.34	2.41	2.46	2.48	2.51
70.0					2.44	2.53	2.60	2.67	2.69	2.72

Cond °C	Current at 400 V, A									
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.34	2.35	2.36	2.38	2.41					
15.0	2.40	2.42	2.43	2.45	2.48					
20.0	2.47	2.49	2.51	2.53	2.56	2.60				
25.0	2.54	2.57	2.60	2.63	2.66	2.70	2.74			
30.0	2.61	2.66	2.70	2.73	2.77	2.81	2.85	2.90	2.93	
35.0	2.70	2.76	2.81	2.85	2.89	2.93	2.98	3.03	3.05	3.09
40.0	2.79	2.86	2.93	2.98	3.03	3.07	3.12	3.17	3.19	3.23
45.0	2.88	2.98	3.06	3.12	3.18	3.24	3.29	3.34	3.36	3.39
50.0		3.10	3.20	3.28	3.35	3.42	3.47	3.53	3.55	3.58
55.0			3.35	3.45	3.54	3.61	3.68	3.74	3.76	3.80
60.0				3.64	3.74	3.83	3.91	3.97	4.00	4.04
65.0					3.97	4.07	4.16	4.23	4.26	4.30
70.0					4.21	4.33	4.43	4.52	4.55	4.60

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	7.34	8.97	10.90	13.10	15.60					
15.0	7.26	8.90	10.80	13.05	15.55					
20.0	7.18	8.83	10.75	12.95	15.50	18.35				
25.0	7.10	8.76	10.70	12.90	15.40	18.25	21.50			
30.0	7.02	8.68	10.60	12.80	15.35	18.20	21.40	24.90	26.40	
35.0	6.95	8.60	10.50	12.75	15.25	18.10	21.20	24.80	26.30	28.70
40.0	6.88	8.52	10.45	12.65	15.15	17.95	21.10	24.60	26.10	28.50
45.0	6.81	8.45	10.35	12.50	15.00	17.80	21.00	24.50	26.00	28.40
50.0		8.37	10.25	12.40	14.85	17.65	20.80	24.30	25.80	28.20
55.0			10.15	12.30	14.70	17.50	20.60	24.10	25.60	27.90
60.0				12.15	14.55	17.30	20.40	23.80	25.30	27.70
65.0					14.35	17.10	20.10	23.60	25.10	27.40
70.0					14.20	16.85	19.90	23.30	24.80	27.20

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	8.04
Length/Width, mm	253/243
Height, mm	387
Net Weight, kg	26.3
Gross Weight, kg	28
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	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	4.2
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.70
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	5.2
Locked Rotor Current, A	32
Winding Resistance, ohm	5.48
Default Enclosure Class	IP 54/65

### **ACCESSORIES INCLUDED**

Mounting Grommets	Standard
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### **ACCESSORIES OPTIONAL**

Discharge Temperature Protection	Discharge line thermostat
Crankcase Heater	55 W External

## **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFM	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04