



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	1.86	2.30	2.82	3.43	4.15					
15.0	1.72	2.15	2.66	3.25	3.94					
20.0	1.60	2.01	2.50	3.08	3.74	4.51				
25.0	1.48	1.89	2.36	2.91	3.55	4.29	5.13			
30.0	1.38	1.77	2.22	2.75	3.36	4.07	4.88	5.81	6.21	
35.0	1.28	1.66	2.09	2.60	3.18	3.86	4.63	5.52	5.90	6.52
40.0	1.20	1.55	1.96	2.44	3.00	3.64	4.38	5.22	5.59	6.18
45.0	1.10	1.44	1.84	2.29	2.82	3.43	4.13	4.93	5.28	5.84
50.0		1.34	1.71	2.14	2.63	3.21	3.87	4.63	4.96	5.49
55.0			1.58	1.98	2.45	2.99	3.61	4.32	4.64	5.14
60.0				1.82	2.25	2.76	3.34	4.01	4.30	4.77
65.0					2.05	2.52	3.06	3.68	3.96	4.40
70.0					1.84	2.27	2.76	3.34	3.60	4.01

50 Hz

ZH04KCU-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	0.59	0.61	0.63	0.66	0.69					
15.0	0.64	0.66	0.68	0.71	0.74					
20.0	0.69	0.72	0.74	0.77	0.80	0.83				
25.0	0.76	0.79	0.81	0.84	0.86	0.90	0.94			
30.0	0.82	0.86	0.89	0.92	0.94	0.97	1.01	1.06	1.08	
35.0	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									
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	1.89	1.90	1.92	1.95	1.98					
15.0	1.93	1.95	1.96	1.99	2.01					
20.0	1.98	2.00	2.02	2.04	2.06	2.10				
25.0	2.03	2.06	2.08	2.10	2.13	2.16	2.20			
30.0	2.09	2.13	2.16	2.18	2.21	2.24	2.27	2.32	2.35	
35.0	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

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	5.64	6.85	8.26	9.88	11.75					
15.0	5.44	6.67	8.08	9.71	11.55					
20.0	5.28	6.51	7.94	9.57	11.40	13.55				
25.0	5.13	6.38	7.81	9.45	11.30	13.40	15.75			
30.0	5.01	6.27	7.71	9.34	11.20	13.30	15.65	18.25	19.40	
35.0	4.90	6.18	7.62	9.25	11.10	13.15	15.50	18.10	19.25	21.00
40.0	4.81	6.10	7.54	9.17	11.00	13.05	15.40	18.00	19.10	20.90
45.0	4.73	6.03	7.47	9.09	10.90	13.00	15.30	17.85	19.00	20.70
50.0		5.96	7.40	9.01	10.85	12.85	15.15	17.75	18.85	20.60
55.0			7.32	8.93	10.75	12.75	15.05	17.60	18.70	20.40
60.0				8.83	10.60	12.60	14.90	17.40	18.50	20.20
65.0					10.45	12.45	14.70	17.25	18.30	20.00
70.0					10.30	12.25	14.50	17.00	18.10	19.85

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

Discharge Temperature Protection	Discharge line thermostat
Crankcase Heater	55 W External

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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