



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	4.34	5.39	6.64	8.12	9.83					
15.0	4.13	5.16	6.38	7.81	9.48					
20.0	3.91	4.92	6.11	7.49	9.11	10.95				
25.0	3.69	4.67	5.82	7.16	8.71	10.50	12.55			
30.0	3.46	4.41	5.52	6.81	8.30	10.05	12.00	14.25	15.25	
35.0	3.24	4.15	5.21	6.44	7.88	9.53	11.45	13.60	14.55	16.05
40.0	3.01	3.88	4.89	6.07	7.44	9.02	10.85	12.90	13.80	15.25
45.0	2.78	3.60	4.57	5.68	6.98	8.48	10.20	12.15	13.05	14.40
50.0		3.33	4.24	5.29	6.52	7.93	9.56	11.45	12.25	13.55
55.0			3.90	4.89	6.04	7.37	8.90	10.65	11.45	12.70
60.0				4.48	5.55	6.79	8.23	9.89	10.60	11.80
65.0					5.06	6.21	7.54	9.09	9.77	10.85
70.0					4.56	5.61	6.84	8.27	8.90	9.92

50 Hz

ZH11KCU-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	1.61	1.62	1.64	1.66	1.68					
15.0	1.72	1.75	1.78	1.80	1.83					
20.0	1.86	1.89	1.92	1.96	1.99	2.02				
25.0	2.00	2.04	2.08	2.12	2.16	2.21	2.25			
30.0	2.16	2.21	2.26	2.31	2.35	2.40	2.45	2.50	2.52	
35.0	2.34	2.40	2.45	2.51	2.56	2.61	2.67	2.72	2.74	2.78
40.0	2.54	2.60	2.66	2.72	2.78	2.84	2.90	2.96	2.99	3.02
45.0	2.77	2.83	2.90	2.96	3.03	3.09	3.16	3.22	3.25	3.29
50.0		3.08	3.15	3.22	3.29	3.36	3.43	3.50	3.53	3.57
55.0			3.43	3.50	3.58	3.65	3.73	3.80	3.83	3.88
60.0				3.81	3.89	3.96	4.04	4.12	4.15	4.20
65.0					4.22	4.30	4.38	4.46	4.50	4.55
70.0					4.58	4.66	4.75	4.83	4.87	4.92

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	5.43	5.44	5.45	5.46	5.47					
15.0	5.51	5.52	5.54	5.56	5.58					
20.0	5.59	5.62	5.64	5.67	5.69	5.72				
25.0	5.70	5.73	5.76	5.79	5.83	5.86	5.89			
30.0	5.82	5.86	5.90	5.94	5.98	6.02	6.06	6.10	6.12	
35.0	5.97	6.01	6.06	6.11	6.16	6.21	6.26	6.31	6.33	6.36
40.0	6.14	6.20	6.25	6.31	6.36	6.42	6.48	6.53	6.56	6.59
45.0	6.34	6.41	6.47	6.53	6.60	6.66	6.73	6.79	6.82	6.86
50.0		6.65	6.72	6.79	6.86	6.94	7.01	7.09	7.12	7.16
55.0			7.01	7.09	7.17	7.25	7.33	7.42	7.45	7.50
60.0				7.43	7.52	7.61	7.70	7.79	7.83	7.88
65.0					7.90	8.00	8.10	8.20	8.24	8.31
70.0					8.34	8.45	8.56	8.67	8.71	8.78

50 Hz

ZH11KCU-TFMN

R290

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	13.20	16.10	19.45	23.40	27.80					
15.0	13.05	16.00	19.45	23.40	27.80					
20.0	12.90	15.90	19.35	23.30	27.80	32.90				
25.0	12.75	15.75	19.25	23.20	27.70	32.80	38.50			
30.0	12.55	15.60	19.10	23.10	27.60	32.70	38.40	44.80	47.50	
35.0	12.35	15.45	18.95	23.00	27.50	32.60	38.30	44.60	47.40	51.70
40.0	12.10	15.25	18.75	22.80	27.30	32.40	38.10	44.40	47.10	51.40
45.0	11.90	15.00	18.55	22.50	27.10	32.10	37.80	44.10	46.80	51.20
50.0		14.80	18.35	22.30	26.80	31.80	37.50	43.80	46.50	50.80
55.0			18.10	22.00	26.50	31.50	37.10	43.40	46.10	50.40
60.0				21.70	26.20	31.10	36.70	43.00	45.70	50.00
65.0					25.80	30.70	36.30	42.50	45.20	49.50
70.0					25.50	30.40	35.90	42.10	44.80	49.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	14.4
Length/Width, mm	254/266
Height, mm	442
Net Weight, kg	36.5
Gross Weight, kg	38.4
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	10.1
Locked Rotor Current, A	64
Winding Resistance, ohm	2.47
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