



Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 5 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	2.30	2.86	3.52	4.29									
20.0	2.20	2.75	3.40	4.17	5.06								
25.0	2.04	2.58	3.21	3.95	4.82	5.81							
30.0	1.88	2.41	3.02	3.73	4.56	5.52	6.62	7.10	7.87				
35.0	1.72	2.23	2.82	3.50	4.30	5.21	6.26	6.72	7.46	8.12	8.82	10.35	
40.0	1.56	2.05	2.61	3.26	4.02	4.89	5.89	6.33	7.04	7.67	8.34	9.81	11.45
45.0		1.86	2.40	3.01	3.73	4.55	5.50	5.92	6.59	7.19	7.82	9.22	10.80
50.0			2.18	2.75	3.42	4.20	5.09	5.48	6.12	6.68	7.28	8.61	10.10
55.0				2.48	3.10	3.83	4.66	5.03	5.62	6.15	6.71	7.96	9.37
60.0					2.77	3.43	4.20	4.54	5.09	5.58	6.11	7.27	8.60
65.0						3.01	3.71	4.02	4.52	4.97	5.45		
68.0						2.77	3.43	3.72	4.20				

50 Hz

ZH05K1P-TFM

R410A Dew Point

Cond °C	Power, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	0.89	0.90	0.90	0.90									
20.0	0.94	0.96	0.96	0.96	0.95								
25.0	1.02	1.05	1.06	1.06	1.05	1.04							
30.0	1.11	1.14	1.16	1.17	1.16	1.16	1.14	1.14	1.14				
35.0	1.20	1.25	1.28	1.29	1.29	1.28	1.27	1.27	1.26	1.26	1.25	1.26	
40.0	1.30	1.36	1.40	1.42	1.44	1.43	1.42	1.42	1.40	1.40	1.40	1.39	1.40
45.0		1.48	1.54	1.58	1.60	1.60	1.59	1.59	1.58	1.58	1.56	1.56	1.55
50.0			1.68	1.74	1.77	1.78	1.78	1.78	1.78	1.77	1.76	1.75	1.74
55.0				1.92	1.96	2.00	2.00	2.00	2.00	2.00	2.00	1.98	1.97
60.0					2.18	2.22	2.25	2.25	2.25	2.25	2.25	2.24	2.23
65.0						2.48	2.52	2.53	2.54	2.54	2.54		
68.0						2.62	2.66	2.68	2.69				

Cond °C	Current at 400 V, A												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	2.24	2.25	2.25	2.25									
20.0	2.29	2.30	2.30	2.30	2.29								
25.0	2.37	2.39	2.40	2.40	2.39	2.38							
30.0	2.45	2.49	2.51	2.52	2.51	2.50	2.49	2.48	2.48				
35.0	2.55	2.60	2.64	2.65	2.65	2.64	2.63	2.62	2.61	2.61	2.61	2.61	
40.0	2.65	2.73	2.78	2.81	2.81	2.81	2.80	2.79	2.78	2.78	2.77	2.76	2.77
45.0		2.87	2.94	2.98	3.00	3.01	3.00	3.00	2.99	2.98	2.97	2.96	2.95
50.0			3.12	3.18	3.22	3.24	3.24	3.23	3.23	3.22	3.21	3.19	3.18
55.0				3.40	3.46	3.49	3.51	3.51	3.51	3.50	3.49	3.48	3.46
60.0					3.73	3.78	3.81	3.82	3.82	3.82	3.82	3.81	3.79
65.0						4.11	4.16	4.17	4.18	4.19	4.19		
68.0						4.29	4.35	4.36	4.38				

Cond °C	Suction Mass Flow, g/s												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	11.85	14.50	17.70	21.40									
20.0	11.65	14.35	17.55	21.20	25.50								
25.0	11.25	14.05	17.30	21.00	25.30	30.30							
30.0	10.90	13.75	17.05	20.80	25.10	30.10	35.70	38.10	42.10				
35.0	10.50	13.40	16.70	20.50	24.80	29.80	35.40	37.90	41.80	45.30	49.10	57.20	
40.0	10.10	13.05	16.35	20.20	24.50	29.50	35.10	37.60	41.60	45.10	48.80	56.90	66.10
45.0		12.60	15.95	19.80	24.10	29.10	34.80	37.20	41.20	44.70	48.50	56.60	65.80
50.0			15.50	19.35	23.70	28.70	34.30	36.80	40.80	44.30	48.10	56.30	65.60
55.0				18.80	23.20	28.20	33.80	36.30	40.30	43.90	47.60	56.00	65.30
60.0					22.60	27.60	33.30	35.80	39.80	43.40	47.30	55.70	65.20
65.0						27.20	32.90	35.50	39.60	43.20	47.10		
68.0						27.00	32.90	35.50	39.60				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	3.96
Length/Width, mm	227/194
Height, mm	388
Net Weight, kg	21.3
Gross Weight, kg	22
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	58
Sound Power (HT), dBA	69
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	2.30
High Side PS gauge, bar	46
Low Side PS gauge, bar	28
Low Side TS Max., °C	50
Refrigerant's GWP	2088
Refrigerant's classification	A1

50 Hz

ZH05K1P-TFM

R410A Dew Point

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	4.8
Locked Rotor Current, A	28
Winding Resistance, ohm	8.14/8.14/6.46 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Crankcase Heater	40 W External
------------------	---------------

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>
TFM	380-420 V / 3~ / 50 Hz	400		Y	1.00