



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	1.78	2.29	2.89	3.61									
20.0	1.70	2.19	2.78	3.47	4.29								
25.0	1.56	2.03	2.60	3.26	4.04	4.94							
30.0	1.43	1.88	2.43	3.06	3.79	4.65	5.63	6.06	6.75				
35.0	1.32	1.75	2.26	2.86	3.56	4.36	5.29	5.70	6.35	6.93	7.55	8.91	
40.0	1.20	1.62	2.10	2.67	3.32	4.08	4.95	5.33	5.94	6.49	7.07	8.35	9.79
45.0		1.48	1.94	2.47	3.08	3.79	4.60	4.96	5.54	6.05	6.60	7.79	9.15
50.0			1.78	2.27	2.84	3.50	4.26	4.59	5.12	5.60	6.11	7.23	8.49
55.0				2.07	2.59	3.20	3.90	4.20	4.70	5.14	5.61	6.65	7.82
60.0					2.33	2.88	3.52	3.80	4.25	4.66	5.09	6.04	7.13
65.0						2.54	3.11	3.37	3.77	4.14	4.53		
68.0						2.35	2.89	3.12	3.51				

50 Hz

ZH04K1P-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	0.80	0.79	0.78	0.77									
20.0	0.84	0.84	0.83	0.83	0.81								
25.0	0.93	0.92	0.92	0.91	0.90	0.89							
30.0	1.02	1.01	1.01	1.01	1.00	0.99	0.98	0.97	0.96				
35.0	1.12	1.11	1.11	1.11	1.10	1.10	1.09	1.08	1.08	1.06	1.06	1.02	
40.0	1.23	1.23	1.23	1.23	1.23	1.22	1.22	1.22	1.20	1.20	1.19	1.16	1.14
45.0		1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.35	1.34	1.32	1.30
50.0			1.51	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.50	1.48
55.0				1.70	1.70	1.70	1.71	1.71	1.72	1.72	1.71	1.70	1.70
60.0					1.92	1.92	1.93	1.93	1.94	1.94	1.94	1.94	1.93
65.0						2.18	2.18	2.19	2.19	2.20	2.20		
68.0						2.32	2.33	2.33	2.34				

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	2.08	2.08	2.07	2.06									
20.0	2.15	2.15	2.15	2.14	2.13								
25.0	2.26	2.26	2.26	2.25	2.25	2.23							
30.0	2.36	2.36	2.36	2.35	2.35	2.34	2.32	2.32	2.30				
35.0	2.45	2.45	2.45	2.45	2.45	2.44	2.43	2.43	2.42	2.40	2.39	2.36	
40.0	2.56	2.56	2.55	2.55	2.56	2.55	2.55	2.54	2.54	2.53	2.52	2.50	2.46
45.0		2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.67	2.67	2.65	2.62
50.0			2.84	2.84	2.84	2.85	2.85	2.85	2.85	2.85	2.84	2.83	2.82
55.0				3.04	3.04	3.05	3.06	3.06	3.06	3.06	3.06	3.06	3.05
60.0					3.30	3.31	3.32	3.32	3.32	3.33	3.33	3.33	3.33
65.0						3.63	3.64	3.65	3.65	3.66	3.67		
68.0						3.83	3.84	3.85	3.85				

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	9.18	11.65	14.55	17.95									
20.0	8.95	11.40	14.30	17.70	21.60								
25.0	8.60	11.05	13.95	17.35	21.30	25.70							
30.0	8.29	10.80	13.70	17.05	20.90	25.30	30.40	32.60	36.10				
35.0	8.01	10.50	13.40	16.75	20.60	24.90	29.90	32.10	35.60	38.70	42.00	49.10	
40.0	7.74	10.30	13.15	16.50	20.30	24.60	29.50	31.70	35.10	38.20	41.40	48.50	56.50
45.0		10.05	12.95	16.20	19.95	24.20	29.10	31.20	34.60	37.60	40.90	47.90	55.80
50.0			12.65	15.95	19.65	23.90	28.70	30.80	34.10	37.10	40.30	47.30	55.10
55.0				15.65	19.35	23.50	28.30	30.40	33.70	36.70	39.80	46.70	54.50
60.0					19.05	23.20	27.90	30.00	33.30	36.20	39.40	46.30	54.10
65.0						22.90	27.70	29.70	33.10	36.00	39.20		
68.0						22.90	27.70	29.80	33.10				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	3.36
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	57
Sound Power (HT), dBA	68
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

ZH04K1P-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
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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