



Minimum Evaporating Temp. With:

— 10 K Suction Superheat    
 — 5 K Suction Superheat

— Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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	2.45	3.04	3.74	4.57									
20.0	2.35	2.94	3.64	4.45	5.39								
25.0	2.20	2.77	3.45	4.24	5.16	6.22							
30.0	2.04	2.60	3.26	4.02	4.91	5.93	7.11	7.62	8.45				
35.0	1.88	2.42	3.06	3.80	4.65	5.64	6.77	7.26	8.06	8.77	9.52	11.15	
40.0	1.72	2.24	2.86	3.56	4.38	5.33	6.41	6.89	7.65	8.33	9.06	10.65	12.45
45.0		2.06	2.65	3.32	4.10	5.00	6.04	6.49	7.22	7.88	8.57	10.10	11.80
50.0			2.43	3.07	3.81	4.67	5.65	6.08	6.78	7.40	8.06	9.52	11.15
55.0				2.81	3.51	4.32	5.25	5.66	6.32	6.91	7.54	8.93	10.50
60.0					3.20	3.96	4.83	5.22	5.85	6.41	7.00	8.33	9.83
65.0						3.59	4.42	4.78	5.37	5.90	6.47		
68.0						3.38	4.18	4.53	5.10				

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						2.64	2.69	2.70	2.72				

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						4.32	4.38	4.40	4.42				

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	11.75	14.45	17.60	21.20									
20.0	11.55	14.30	17.45	21.10	25.40								
25.0	11.20	14.00	17.20	20.90	25.20	30.10							
30.0	10.85	13.70	16.95	20.70	25.00	29.90	35.50	37.90	41.80				
35.0	10.45	13.35	16.60	20.40	24.70	29.60	35.20	37.70	41.50	45.00	48.70	56.70	
40.0	10.05	12.95	16.25	20.10	24.40	29.30	34.90	37.40	41.30	44.70	48.40	56.50	65.50
45.0		12.55	15.85	19.65	24.00	28.90	34.50	37.00	40.90	44.40	48.10	56.20	65.30
50.0			15.45	19.20	23.50	28.50	34.10	36.60	40.50	44.00	47.70	55.90	65.00
55.0				18.70	23.00	28.00	33.60	36.10	40.00	43.50	47.30	55.50	64.80
60.0					22.50	27.50	33.10	35.60	39.60	43.10	46.90	55.30	64.70
65.0						27.00	32.70	35.20	39.30	42.90	46.80		
68.0						26.80	32.70	35.20	39.40				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /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

**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**

<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