



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	4.50	5.54	6.77	8.22									
20.0	4.36	5.38	6.60	8.03	9.70								
25.0	4.12	5.13	6.31	7.69	9.31	11.15							
30.0	3.89	4.87	6.01	7.35	8.90	10.70	12.75	13.65	15.10				
35.0	3.65	4.60	5.71	6.99	8.47	10.20	12.15	13.00	14.40	15.65	16.95	19.80	
40.0	3.42	4.33	5.39	6.61	8.02	9.66	11.55	12.35	13.65	14.85	16.10	18.85	21.90
45.0		4.06	5.06	6.21	7.55	9.10	10.85	11.65	12.90	14.00	15.20	17.80	20.80
50.0			4.71	5.80	7.06	8.51	10.20	10.90	12.10	13.15	14.30	16.75	19.55
55.0				5.37	6.54	7.89	9.46	10.15	11.25	12.25	13.30	15.65	18.30
60.0					6.00	7.25	8.71	9.35	10.40	11.30	12.30	14.50	17.00
65.0						6.60	7.94	8.54	9.50	10.35	11.30		
68.0						6.22	7.50	8.07	8.99				

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	1.39	1.40	1.40	1.40									
20.0	1.49	1.50	1.51	1.50	1.49								
25.0	1.66	1.68	1.70	1.70	1.69	1.67							
30.0	1.82	1.87	1.90	1.90	1.90	1.89	1.86	1.86	1.84				
35.0	2.01	2.07	2.11	2.13	2.14	2.13	2.11	2.10	2.08	2.06	2.05	2.01	
40.0	2.20	2.28	2.34	2.37	2.39	2.39	2.38	2.37	2.35	2.34	2.32	2.28	2.24
45.0		2.50	2.58	2.63	2.66	2.67	2.67	2.66	2.65	2.64	2.62	2.59	2.54
50.0			2.84	2.91	2.96	2.98	2.99	2.99	2.98	2.97	2.96	2.92	2.88
55.0				3.21	3.28	3.32	3.34	3.34	3.34	3.33	3.33	3.30	3.26
60.0					3.62	3.68	3.72	3.72	3.73	3.73	3.73	3.71	3.68
65.0						4.07	4.13	4.14	4.16	4.17	4.17		
68.0						4.33	4.39	4.41	4.43				

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	2.96	2.98	2.99	2.97									
20.0	3.10	3.14	3.14	3.14	3.11								
25.0	3.35	3.39	3.41	3.42	3.40	3.37							
30.0	3.60	3.66	3.70	3.71	3.70	3.68	3.65	3.63	3.61				
35.0	3.85	3.93	3.99	4.01	4.02	4.01	3.98	3.97	3.95	3.93	3.91	3.86	
40.0	4.11	4.22	4.29	4.33	4.35	4.35	4.34	4.33	4.31	4.29	4.27	4.23	4.19
45.0		4.51	4.60	4.67	4.71	4.72	4.72	4.71	4.70	4.68	4.67	4.63	4.59
50.0			4.93	5.02	5.07	5.11	5.12	5.12	5.11	5.10	5.09	5.06	5.03
55.0				5.38	5.46	5.51	5.54	5.55	5.55	5.55	5.54	5.53	5.50
60.0					5.87	5.94	5.99	6.00	6.02	6.02	6.03	6.02	6.00
65.0						6.39	6.46	6.49	6.51	6.53	6.54		
68.0						6.67	6.76	6.79	6.82				

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	21.60	26.30	31.80	38.20									
20.0	21.40	26.10	31.70	38.10	45.60								
25.0	21.00	25.90	31.50	38.00	45.50	54.00							
30.0	20.70	25.60	31.30	37.80	45.30	53.80	63.60	67.80	74.60				
35.0	20.40	25.30	31.00	37.50	45.00	53.50	63.20	67.50	74.20	80.30	86.60	100.50	
40.0	20.00	25.00	30.70	37.20	44.60	53.10	62.80	67.00	73.70	79.70	86.10	100.00	115.50
45.0		24.70	30.30	36.80	44.20	52.60	62.20	66.40	73.10	79.00	85.40	99.30	115.00
50.0			29.90	36.30	43.60	51.90	61.40	65.60	72.20	78.20	84.50	98.30	114.00
55.0				35.70	42.90	51.20	60.60	64.70	71.30	77.20	83.50	97.30	113.00
60.0					42.20	50.30	59.60	63.70	70.30	76.20	82.50	96.30	112.00
65.0						49.60	58.80	62.90	69.50	75.40	81.70		
68.0						49.30	58.60	62.80	69.40				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	6.93
Length/Width, mm	242/242
Height, mm	418
Net Weight, kg	33
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	63
Sound Power (HT), dBA	74
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	3.60
High Side PS gauge, bar	46
Low Side PS gauge, bar	28
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.4
Locked Rotor Current, A	51.5
Winding Resistance, ohm	3.2
Default Enclosure Class	IP 21 (IEC 34)

50 Hz

ZH09K1P-TFM

R410A Dew Point

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