



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	5.88	7.14	8.66	10.45									
20.0	5.67	6.93	8.43	10.20	12.25								
25.0	5.35	6.59	8.05	9.78	11.80	14.15							
30.0	5.05	6.25	7.67	9.34	11.30	13.55	16.15	17.30	19.10				
35.0	4.76	5.92	7.28	8.89	10.75	12.95	15.45	16.55	18.30	19.90	21.60	25.20	
40.0	4.48	5.58	6.89	8.42	10.20	12.30	14.70	15.75	17.45	18.95	20.60	24.10	28.10
45.0		5.24	6.47	7.92	9.62	11.60	13.90	14.90	16.50	17.95	19.50	22.90	26.70
50.0			6.04	7.39	8.99	10.85	13.00	14.00	15.50	16.90	18.35	21.60	25.30
55.0				6.83	8.31	10.05	12.10	13.00	14.45	15.75	17.15	20.20	23.70
60.0					7.60	9.21	11.10	11.95	13.30	14.55	15.85	18.80	22.10
65.0						8.33	10.10	10.90	12.15	13.30	14.55		
68.0						7.80	9.48	10.25	11.45				

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	1.76	1.78	1.80	1.80									
20.0	1.88	1.90	1.92	1.93	1.94								
25.0	2.08	2.13	2.15	2.16	2.16	2.17							
30.0	2.30	2.36	2.40	2.41	2.42	2.41	2.42	2.42	2.43				
35.0	2.53	2.62	2.67	2.70	2.70	2.70	2.69	2.69	2.69	2.70	2.71	2.75	
40.0	2.78	2.89	2.97	3.01	3.02	3.02	3.01	3.01	3.00	3.00	3.00	3.02	3.06
45.0		3.20	3.30	3.36	3.38	3.39	3.38	3.37	3.36	3.36	3.35	3.35	3.37
50.0			3.65	3.74	3.78	3.80	3.79	3.79	3.78	3.77	3.76	3.74	3.74
55.0				4.16	4.23	4.26	4.26	4.26	4.25	4.24	4.22	4.20	4.18
60.0					4.72	4.77	4.79	4.79	4.78	4.77	4.76	4.73	4.70
65.0						5.33	5.37	5.37	5.37	5.37	5.36		
68.0						5.70	5.75	5.76	5.76				

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	4.62	4.64	4.65	4.65									
20.0	4.73	4.75	4.76	4.77	4.78								
25.0	4.91	4.95	4.97	4.97	4.98	4.98							
30.0	5.10	5.16	5.19	5.21	5.21	5.20	5.21	5.21	5.23				
35.0	5.31	5.40	5.45	5.47	5.47	5.47	5.46	5.46	5.47	5.47	5.49	5.53	
40.0	5.54	5.66	5.73	5.77	5.79	5.79	5.78	5.77	5.77	5.76	5.77	5.78	5.83
45.0		5.96	6.07	6.13	6.16	6.16	6.15	6.15	6.14	6.13	6.12	6.12	6.14
50.0			6.45	6.54	6.59	6.61	6.60	6.60	6.58	6.57	6.56	6.54	6.53
55.0				7.01	7.09	7.13	7.13	7.13	7.12	7.11	7.09	7.06	7.03
60.0					7.67	7.73	7.75	7.75	7.74	7.73	7.72	7.68	7.65
65.0						8.42	8.46	8.47	8.47	8.47	8.46		
68.0						8.88	8.94	8.95	8.96				

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	28.20	33.90	40.60	48.50									
20.0	27.90	33.60	40.50	48.40	57.70								
25.0	27.40	33.20	40.20	48.20	57.60	68.30							
30.0	26.90	32.90	39.90	48.00	57.40	68.30	80.60	86.00	94.60				
35.0	26.60	32.60	39.60	47.70	57.20	68.00	80.40	85.80	94.40	102.00	110.50	128.00	
40.0	26.30	32.20	39.20	47.40	56.80	67.60	80.00	85.50	94.10	102.00	110.00	128.00	148.00
45.0		31.90	38.80	46.90	56.30	67.10	79.40	84.90	93.50	101.50	109.50	127.50	147.50
50.0			38.30	46.30	55.50	66.30	78.60	84.00	92.70	100.50	108.50	127.00	147.00
55.0				45.50	54.60	65.20	77.50	82.90	91.50	99.30	107.50	126.00	146.50
60.0					53.50	63.90	76.10	81.50	90.20	98.00	106.50	124.50	145.50
65.0						62.60	74.70	80.10	88.90	96.70	105.00		
68.0							61.90	74.10	79.50	88.40			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.90
Length/Width, mm	242/242
Height, mm	418
Net Weight, kg	35
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	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	1
Max. Internal Free Volume, l	3.80
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	9.7
Locked Rotor Current, A	62
Winding Resistance, ohm	2.78
Default Enclosure Class	IP 21 (IEC 34)

50 Hz

ZH12K1P-TFM

R410A Dew Point

ACCESSORIES INCLUDED**ACCESSORIES OPTIONAL****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