



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	9.32	11.55	14.20	17.35									
20.0	9.06	11.25	13.85	16.95	20.50								
25.0	8.62	10.75	13.30	16.25	19.65	23.60							
30.0	8.19	10.25	12.65	15.50	18.80	22.60	26.90	28.80	31.80				
35.0	7.74	9.73	12.05	14.75	17.90	21.50	25.60	27.40	30.30	32.90	35.70	41.70	
40.0	7.29	9.19	11.40	13.95	16.95	20.40	24.30	26.00	28.80	31.30	33.90	39.60	46.10
45.0		8.63	10.75	13.15	15.95	19.20	22.90	24.60	27.20	29.50	32.00	37.50	43.70
50.0			10.05	12.30	14.95	18.00	21.50	23.10	25.50	27.80	30.10	35.30	41.20
55.0				11.45	13.90	16.75	20.10	21.50	23.90	25.90	28.20	33.10	38.60
60.0					12.85	15.50	18.60	19.95	22.10	24.10	26.20	30.80	36.10
65.0						14.20	17.10	18.35	20.40	22.30	24.20		
68.0						13.50	16.25	17.45	19.45				

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	2.84	2.92	2.99	3.05									
20.0	3.01	3.10	3.18	3.24	3.30								
25.0	3.31	3.42	3.51	3.59	3.65	3.70							
30.0	3.63	3.76	3.87	3.96	4.04	4.10	4.16	4.18	4.21				
35.0	3.97	4.12	4.25	4.36	4.46	4.54	4.60	4.63	4.66	4.69	4.71	4.76	
40.0	4.33	4.52	4.67	4.80	4.92	5.01	5.10	5.13	5.17	5.20	5.23	5.28	5.33
45.0		4.94	5.13	5.29	5.42	5.54	5.64	5.67	5.72	5.76	5.79	5.86	5.92
50.0			5.63	5.81	5.97	6.11	6.23	6.28	6.33	6.38	6.42	6.50	6.57
55.0				6.39	6.58	6.74	6.89	6.94	7.01	7.06	7.11	7.21	7.29
60.0					7.24	7.43	7.60	7.66	7.75	7.81	7.88	7.99	8.08
65.0						8.18	8.38	8.46	8.56	8.64	8.71		
68.0						8.67	8.89	8.97	9.08				

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	6.22	6.25	6.27	6.25									
20.0	6.42	6.49	6.52	6.54	6.53								
25.0	6.76	6.87	6.95	7.01	7.04	7.05							
30.0	7.11	7.27	7.40	7.49	7.56	7.61	7.64	7.65	7.66				
35.0	7.49	7.70	7.86	8.00	8.11	8.20	8.26	8.28	8.31	8.33	8.35	8.37	
40.0	7.91	8.16	8.37	8.55	8.70	8.82	8.92	8.96	9.00	9.04	9.07	9.12	9.17
45.0		8.69	8.94	9.16	9.35	9.50	9.64	9.68	9.75	9.80	9.84	9.92	9.99
50.0			9.58	9.84	10.06	10.26	10.42	10.48	10.56	10.63	10.69	10.79	10.89
55.0				10.61	10.87	11.10	11.29	11.37	11.47	11.54	11.62	11.75	11.87
60.0					11.77	12.04	12.27	12.35	12.47	12.56	12.65	12.81	12.95
65.0						13.09	13.36	13.45	13.59	13.69	13.79		
68.0						13.79	14.07	14.18	14.32				

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	44.70	54.90	66.80	80.60									
20.0	44.50	54.70	66.60	80.40	96.40								
25.0	44.10	54.30	66.20	80.10	96.00	114.00							
30.0	43.60	53.90	65.90	79.70	95.50	113.50	134.00	143.00	157.50				
35.0	43.20	53.50	65.50	79.20	94.90	113.00	133.50	142.00	156.50	169.00	182.50	212.00	
40.0	42.70	53.10	65.00	78.60	94.20	112.00	132.50	141.00	155.50	168.00	181.50	210.00	243.00
45.0		52.50	64.40	77.90	93.40	111.00	131.00	140.00	154.00	166.50	180.00	209.00	241.00
50.0			63.70	77.10	92.40	110.00	130.00	138.50	152.50	165.00	178.50	207.00	240.00
55.0				76.20	91.30	108.50	128.50	137.00	151.00	163.50	177.00	206.00	238.00
60.0					90.30	107.50	127.50	136.00	150.00	162.00	175.50	205.00	238.00
65.0						107.00	126.50	135.50	149.50	162.00	175.00		
68.0							107.00	127.00	136.00	150.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.7
Length/Width, mm	239/244
Height, mm	443
Net Weight, kg	45.2
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.77
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	64
Sound Power (HT), dBA	75
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	5.20
High Side PS gauge, bar	46
Low Side PS gauge, bar	28
Low Side TS Max., °C	25
Low Side TS Min., °C	-25
Refrigerant's GWP	2088
Refrigerant's classification	A1

50 Hz

ZH19K1P-TFM

R410A Dew Point

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

Maximum Operating Current, A	15.3
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED**ACCESSORIES OPTIONAL****MOTOR OPTIONS**

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFM	380-420 V / 3~ / 50 Hz	400		Y	1.00