



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	8.73	10.85	13.35	16.30									
20.0	8.47	10.55	13.00	15.85	19.25								
25.0	8.02	10.00	12.40	15.15	18.35	22.10							
30.0	7.58	9.50	11.75	14.40	17.45	21.00	25.00	26.80	29.70				
35.0	7.12	8.95	11.10	13.60	16.50	19.85	23.70	25.40	28.10	30.50	33.10	38.70	
40.0	6.65	8.39	10.45	12.80	15.55	18.70	22.30	23.90	26.50	28.80	31.20	36.50	42.50
45.0		7.81	9.72	11.95	14.50	17.50	20.90	22.40	24.80	27.00	29.20	34.30	39.90
50.0			8.98	11.05	13.45	16.20	19.40	20.80	23.00	25.10	27.20	31.90	37.30
55.0				10.10	12.30	14.85	17.80	19.10	21.20	23.10	25.10	29.50	34.50
60.0					11.10	13.45	16.15	17.35	19.25	21.00	22.80	26.90	31.60
65.0						11.90	14.35	15.40	17.15	18.75	20.40		
68.0							11.05	13.30	14.35	16.00			

50 Hz

ZH19K1P-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	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						8.60	8.81	8.89	9.00				

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						13.69	13.97	14.07	14.22				

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	45.00	55.20	67.10	81.10									
20.0	44.70	55.00	67.00	80.90	97.00								
25.0	44.30	54.60	66.60	80.50	96.60	115.00							
30.0	43.90	54.20	66.30	80.10	96.10	114.50	135.00	144.00	158.50				
35.0	43.40	53.80	65.80	79.60	95.50	113.50	134.00	143.00	157.50	170.50	184.00	213.00	
40.0	42.90	53.40	65.30	79.00	94.80	113.00	133.00	142.00	156.50	169.00	182.50	212.00	245.00
45.0		52.80	64.70	78.30	93.90	112.00	132.00	141.00	155.00	167.50	181.00	211.00	243.00
50.0			64.00	77.50	93.00	110.50	131.00	139.50	153.50	166.00	179.50	209.00	242.00
55.0				76.60	91.90	109.50	129.50	138.00	152.00	164.50	178.00	207.00	240.00
60.0					90.80	108.00	128.00	137.00	151.00	163.50	177.00	206.00	240.00
65.0						107.50	127.50	136.00	150.50	163.00	176.50		
68.0							107.50	128.00	136.50	151.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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: Evap./Cond./Suction at freq./speed)	-7 / 50 / 3 °C at 50 Hz
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