



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
17.0	2.74	3.47	4.38									
20.0	2.66	3.37	4.26	5.34								
25.0	2.52	3.21	4.06	5.10	6.34	7.82						
30.0	2.39	3.05	3.86	4.85	6.03	7.44	9.09	9.83				
35.0	2.26	2.89	3.66	4.59	5.71	7.05	8.62	9.32	10.45	11.45	12.55	
40.0	2.12	2.72	3.45	4.33	5.39	6.65	8.14	8.80	9.87	10.85	11.90	14.20
45.0	1.98	2.55	3.24	4.07	5.06	6.25	7.65	8.27	9.29	10.20	11.20	13.40
50.0		2.38	3.02	3.79	4.72	5.83	7.15	7.73	8.69	9.55	10.50	12.55
55.0			2.80	3.52	4.38	5.41	6.64	7.19	8.08	8.89	9.76	11.70
60.0				3.23	4.03	4.98	6.12	6.63	7.46	8.21	9.03	10.85
65.0					3.66	4.54	5.58	6.05	6.82	7.52	8.28	
67.0						4.36	5.37	5.82	6.56	7.24	7.98	

50 Hz

ZH21K4E-TFD

R407C 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
17.0	0.99	1.01	1.04									
20.0	1.06	1.08	1.11	1.16								
25.0	1.18	1.20	1.23	1.27	1.32	1.38						
30.0	1.30	1.32	1.36	1.40	1.44	1.50	1.58	1.62				
35.0	1.42	1.46	1.50	1.54	1.58	1.64	1.71	1.74	1.80	1.86	1.92	
40.0	1.56	1.61	1.65	1.70	1.74	1.80	1.86	1.90	1.96	2.01	2.07	2.21
45.0	1.71	1.77	1.82	1.87	1.92	1.98	2.05	2.08	2.13	2.18	2.24	2.37
50.0		1.94	2.01	2.07	2.12	2.19	2.26	2.29	2.34	2.39	2.44	2.56
55.0			2.22	2.29	2.35	2.42	2.49	2.53	2.58	2.63	2.68	2.80
60.0				2.53	2.61	2.69	2.77	2.80	2.86	2.90	2.96	3.08
65.0					2.89	2.98	3.07	3.11	3.17	3.22	3.27	
67.0						3.11	3.21	3.24	3.30	3.36	3.41	

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
17.0	2.23	2.26	2.30									
20.0	2.31	2.34	2.37	2.42								
25.0	2.44	2.47	2.51	2.55	2.61	2.69						
30.0	2.58	2.62	2.66	2.70	2.75	2.83	2.93	2.97				
35.0	2.74	2.78	2.82	2.87	2.92	2.99	3.09	3.13	3.21	3.28	3.36	
40.0	2.90	2.96	3.01	3.06	3.12	3.19	3.28	3.33	3.40	3.47	3.54	3.73
45.0	3.08	3.16	3.23	3.29	3.35	3.43	3.52	3.56	3.63	3.70	3.77	3.94
50.0		3.39	3.47	3.54	3.62	3.70	3.80	3.84	3.91	3.98	4.05	4.22
55.0			3.74	3.84	3.93	4.02	4.12	4.17	4.24	4.31	4.38	4.55
60.0				4.17	4.28	4.39	4.50	4.55	4.63	4.69	4.77	4.94
65.0					4.68	4.80	4.93	4.98	5.07	5.14	5.22	
67.0						4.98	5.12	5.17	5.26	5.34	5.42	

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
17.0	14.55	18.20	22.60									
20.0	14.50	18.10	22.50	27.80								
25.0	14.35	18.00	22.40	27.60	33.90	41.20						
30.0	14.25	17.85	22.20	27.40	33.60	40.80	49.20	52.90				
35.0	14.10	17.70	22.00	27.20	33.30	40.40	48.70	52.40	58.30	63.50	69.10	
40.0	13.95	17.55	21.90	27.00	33.00	40.00	48.20	51.80	57.70	62.90	68.40	80.60
45.0	13.80	17.40	21.70	26.70	32.60	39.60	47.70	51.30	57.00	62.20	67.70	79.80
50.0		17.25	21.40	26.40	32.30	39.10	47.10	50.60	56.30	61.50	66.90	79.00
55.0			21.20	26.10	31.90	38.60	46.50	50.00	55.60	60.70	66.10	78.10
60.0				25.80	31.40	38.10	45.80	49.30	54.90	59.90	65.30	77.20
65.0					30.90	37.50	45.20	48.60	54.10	59.10	64.40	
67.0						37.30	44.90	48.30	53.80	58.70	64.10	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.04
Length/Width, mm	243/242
Height, mm	387
Net Weight, kg	27
Gross Weight, kg	30
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	61
Sound Power (HT), dBA	72
Sound Power with Sound Shell (HT), dBA	62
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	3.50
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

50 Hz

ZH21K4E-TFD

R407C Dew Point

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

Maximum Operating Current, A	5.2
Locked Rotor Current, A	32
Winding Resistance, ohm	5.48
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFR	220-240 V / 3~ / 50 Hz	230		Y	1.73
TFD	460 V / 3~ / 60 Hz	460		Y	1.04