



Minimum Evaporating Temp. With:

- 10 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
20.0	1.73	2.23	2.83	3.55	4.41	5.42							
25.0	1.62	2.11	2.68	3.38	4.20	5.18	6.32						
30.0	1.52	1.98	2.54	3.21	4.00	4.93	6.03	6.51	7.30				
35.0	1.42	1.87	2.40	3.04	3.80	4.69	5.74	6.21	6.96	7.63	8.36		
40.0	1.32	1.75	2.26	2.87	3.59	4.45	5.45	5.89	6.61	7.26	7.96	9.50	
45.0	1.23	1.64	2.12	2.70	3.38	4.20	5.16	5.58	6.27	6.89	7.56	9.04	10.75
50.0	1.14	1.52	1.98	2.53	3.18	3.95	4.86	5.27	5.92	6.52	7.16	8.57	10.20
55.0	1.04	1.40	1.84	2.36	2.97	3.70	4.56	4.95	5.57	6.14	6.75	8.10	9.65
60.0		1.30	1.70	2.18	2.76	3.45	4.27	4.63	5.22	5.76	6.34	7.62	9.10
65.0			1.56	2.01	2.55	3.20	3.96	4.31	4.87	5.37	5.92	7.14	8.55
70.0				1.84	2.34	2.94	3.66	3.98	4.50	4.98	5.50	6.65	
75.0				1.66	2.13	2.68	3.35	3.65	4.14	4.59	5.07		

50 Hz

ZH21K4E-PFJ

R134a

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
20.0	0.87	0.90	0.94	0.96	0.98	0.99							
25.0	0.92	0.95	0.99	1.02	1.05	1.06	1.07						
30.0	0.98	1.01	1.04	1.08	1.12	1.14	1.16	1.16	1.16				
35.0	1.05	1.08	1.11	1.15	1.19	1.23	1.26	1.26	1.27	1.27	1.27		
40.0	1.13	1.15	1.18	1.23	1.27	1.31	1.35	1.36	1.38	1.39	1.40	1.39	
45.0	1.23	1.24	1.28	1.32	1.36	1.41	1.46	1.47	1.50	1.51	1.52	1.54	1.53
50.0	1.34	1.35	1.38	1.42	1.46	1.52	1.56	1.58	1.62	1.64	1.66	1.68	1.70
55.0	1.47	1.48	1.50	1.53	1.58	1.64	1.70	1.72	1.75	1.78	1.80	1.84	1.88
60.0		1.62	1.64	1.66	1.72	1.77	1.84	1.86	1.90	1.93	1.96	2.01	2.06
65.0			1.80	1.82	1.87	1.92	1.99	2.02	2.06	2.10	2.13	2.20	2.26
70.0				2.00	2.04	2.10	2.17	2.20	2.24	2.28	2.32	2.39	
75.0				2.21	2.24	2.30	2.36	2.39	2.44	2.48	2.53		

Cond °C	Current at 230 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
20.0	5.66	5.75	5.84	5.91	5.96	5.96							
25.0	5.79	5.87	5.97	6.07	6.15	6.19	6.19						
30.0	5.94	6.02	6.12	6.24	6.34	6.43	6.48	6.48	6.47				
35.0	6.13	6.20	6.31	6.44	6.57	6.69	6.78	6.80	6.82	6.83	6.82		
40.0	6.38	6.44	6.54	6.68	6.83	6.97	7.10	7.15	7.20	7.23	7.25	7.24	
45.0	6.69	6.73	6.83	6.97	7.13	7.31	7.47	7.53	7.61	7.67	7.72	7.77	7.76
50.0	7.07	7.10	7.19	7.33	7.50	7.69	7.89	7.96	8.07	8.15	8.23	8.35	8.41
55.0	7.54	7.55	7.62	7.76	7.93	8.14	8.36	8.45	8.59	8.69	8.79	8.97	9.09
60.0		8.09	8.14	8.27	8.45	8.67	8.92	9.02	9.17	9.29	9.42	9.64	9.84
65.0			8.77	8.88	9.06	9.29	9.55	9.66	9.83	9.98	10.12	10.39	10.64
70.0				9.60	9.77	10.00	10.28	10.40	10.59	10.75	10.91	11.23	
75.0				10.44	10.60	10.83	11.12	11.24	11.44	11.62	11.79		

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
20.0	10.60	13.35	16.65	20.50	25.00	30.20							
25.0	10.40	13.20	16.50	20.30	24.80	30.00	35.90						
30.0	10.25	13.05	16.35	20.20	24.70	29.90	35.80	38.40	42.50				
35.0	10.05	12.90	16.20	20.10	24.50	29.70	35.60	38.20	42.40	46.10	50.00		
40.0	9.90	12.75	16.05	19.90	24.40	29.60	35.50	38.10	42.20	45.90	49.80	58.40	
45.0	9.73	12.60	15.90	19.75	24.20	29.40	35.30	37.90	42.10	45.80	49.70	58.20	67.80
50.0	9.57	12.45	15.80	19.65	24.10	29.20	35.20	37.80	41.90	45.60	49.50	58.10	67.70
55.0	9.41	12.30	15.65	19.50	24.00	29.10	35.00	37.60	41.80	45.50	49.40	58.00	67.70
60.0		12.20	15.55	19.40	23.80	29.00	34.90	37.50	41.60	45.30	49.30	58.00	67.70
65.0			15.45	19.30	23.70	28.80	34.80	37.40	41.50	45.30	49.20	57.90	67.70
70.0				19.20	23.60	28.80	34.70	37.30	41.50	45.20	49.20	58.00	
75.0				19.15	23.60	28.70	34.70	37.30	41.50	45.30	49.40		

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 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	1430
Refrigerant's classification	A1

50 Hz

ZH21K4E-PFJ

R134a

COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

Maximum Operating Current, A	18.5
Locked Rotor Current, A	76
Winding Resistance, ohm	0.94/2.07 (R/S)
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

<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>
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75