



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	2.85	3.57	4.45										
20.0	2.77	3.47	4.33	5.38									
25.0	2.63	3.30	4.13	5.13	6.33	7.76							
30.0	2.49	3.13	3.92	4.88	6.03	7.39	8.99	9.70					
35.0	2.34	2.96	3.71	4.62	5.71	7.01	8.54	9.22	10.30	11.30	12.35		
40.0	2.20	2.79	3.49	4.35	5.39	6.62	8.07	8.72	9.77	10.70	11.75	14.00	
45.0	2.06	2.61	3.27	4.08	5.05	6.22	7.59	8.20	9.20	10.10	11.05	13.20	
50.0		2.43	3.05	3.80	4.71	5.80	7.09	7.67	8.61	9.46	10.40	12.45	
55.0			2.82	3.52	4.36	5.37	6.58	7.13	8.01	8.81	9.68	11.60	
60.0				3.23	4.00	4.94	6.06	6.57	7.40	8.15	8.96	10.80	
65.0					3.64	4.49	5.53	6.00	6.76	7.46	8.22		
67.0						4.31	5.31	5.76	6.51	7.19	7.92		

50 Hz

ZH21K4E-PFJ

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	1.06	1.10	1.16									
20.0	1.11	1.16	1.22	1.27								
25.0	1.20	1.27	1.32	1.37	1.42	1.48						
30.0	1.31	1.38	1.44	1.48	1.54	1.60	1.66	1.70				
35.0	1.42	1.50	1.56	1.62	1.68	1.73	1.79	1.82	1.86	1.90	1.95	
40.0	1.54	1.63	1.70	1.76	1.82	1.88	1.94	1.96	2.01	2.04	2.08	2.17
45.0	1.68	1.78	1.86	1.94	2.00	2.06	2.11	2.14	2.18	2.21	2.25	2.33
50.0		1.94	2.04	2.12	2.19	2.25	2.31	2.34	2.37	2.40	2.44	2.51
55.0			2.23	2.32	2.40	2.47	2.54	2.56	2.60	2.63	2.66	2.73
60.0				2.55	2.64	2.72	2.79	2.82	2.85	2.89	2.92	2.98
65.0					2.90	2.99	3.07	3.10	3.14	3.17	3.21	
67.0						3.11	3.19	3.22	3.26	3.30	3.33	

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
17.0	6.90	6.93	6.98									
20.0	6.92	6.98	7.05	7.15								
25.0	7.03	7.14	7.25	7.36	7.50	7.68						
30.0	7.21	7.38	7.53	7.68	7.83	8.02	8.24	8.35				
35.0	7.48	7.71	7.91	8.09	8.27	8.46	8.68	8.78	8.95	9.10	9.27	
40.0	7.82	8.12	8.38	8.61	8.82	9.03	9.25	9.35	9.50	9.65	9.80	10.16
45.0	8.25	8.63	8.95	9.23	9.48	9.71	9.94	10.04	10.19	10.32	10.47	10.80
50.0		9.24	9.63	9.96	10.25	10.51	10.76	10.86	11.01	11.14	11.28	11.58
55.0			10.41	10.80	11.14	11.44	11.71	11.81	11.97	12.10	12.23	12.52
60.0				11.76	12.16	12.50	12.80	12.91	13.07	13.20	13.34	13.61
65.0					13.30	13.69	14.02	14.14	14.32	14.46	14.59	
67.0						14.20	14.55	14.68	14.86	15.00	15.14	

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	15.20	18.70	23.00									
20.0	15.10	18.60	22.90	28.00								
25.0	14.95	18.50	22.70	27.80	33.80	40.80						
30.0	14.80	18.35	22.60	27.60	33.60	40.60	48.70	52.20				
35.0	14.65	18.15	22.40	27.40	33.30	40.20	48.30	51.80	57.50	62.60	68.10	
40.0	14.50	18.00	22.20	27.10	33.00	39.90	47.80	51.40	57.00	62.10	67.50	79.50
45.0	14.35	17.80	21.90	26.80	32.60	39.40	47.30	50.80	56.50	61.50	66.90	78.80
50.0		17.60	21.70	26.50	32.20	38.90	46.80	50.20	55.80	60.90	66.30	78.20
55.0			21.40	26.10	31.70	38.40	46.10	49.60	55.10	60.20	65.50	77.40
60.0				25.70	31.20	37.80	45.40	48.90	54.40	59.40	64.70	76.60
65.0					30.70	37.10	44.70	48.10	53.60	58.60	63.90	
67.0						36.90	44.40	47.80	53.30	58.30	63.60	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	63
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-PFJ

R407C Dew Point

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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75