



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	2.55	3.29	4.20	5.29	6.59	8.12							
25.0	2.38	3.10	3.97	5.01	6.25	7.72	9.43						
30.0	2.22	2.91	3.74	4.73	5.92	7.32	8.96	9.68	10.85				
35.0	2.07	2.72	3.52	4.46	5.59	6.93	8.49	9.19	10.30	11.30	12.40		
40.0	1.92	2.55	3.30	4.20	5.27	6.54	8.03	8.69	9.76	10.70	11.75	14.05	
45.0	1.78	2.37	3.09	3.94	4.95	6.16	7.57	8.20	9.22	10.15	11.10	13.30	15.80
50.0	1.64	2.21	2.88	3.68	4.64	5.78	7.12	7.71	8.68	9.55	10.50	12.60	14.95
55.0	1.51	2.04	2.67	3.43	4.33	5.40	6.66	7.23	8.14	8.97	9.86	11.85	14.10
60.0		1.88	2.48	3.18	4.02	5.03	6.21	6.74	7.61	8.39	9.23	11.10	13.25
65.0			2.28	2.93	3.72	4.65	5.76	6.26	7.07	7.81	8.60	10.40	12.40
70.0				2.69	3.41	4.28	5.31	5.78	6.53	7.22	7.97	9.64	
75.0				2.45	3.11	3.91	4.86	5.29	6.00	6.64	7.33		

50 Hz

ZH30K4E-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	1.17	1.23	1.28	1.31	1.34	1.35							
25.0	1.25	1.31	1.36	1.41	1.44	1.47	1.48						
30.0	1.33	1.40	1.46	1.52	1.56	1.60	1.62	1.62	1.62				
35.0	1.42	1.50	1.57	1.64	1.69	1.73	1.76	1.77	1.78	1.78	1.78		
40.0	1.53	1.62	1.69	1.76	1.82	1.88	1.92	1.93	1.94	1.95	1.96	1.95	
45.0	1.65	1.74	1.82	1.90	1.98	2.04	2.09	2.10	2.12	2.14	2.15	2.15	2.14
50.0	1.78	1.88	1.98	2.06	2.14	2.21	2.27	2.29	2.32	2.34	2.35	2.37	2.37
55.0	1.94	2.04	2.14	2.24	2.33	2.40	2.47	2.50	2.53	2.55	2.57	2.60	2.62
60.0		2.23	2.33	2.43	2.53	2.62	2.69	2.72	2.76	2.79	2.81	2.86	2.88
65.0			2.54	2.65	2.75	2.85	2.94	2.97	3.01	3.05	3.08	3.13	3.17
70.0				2.89	3.00	3.10	3.20	3.24	3.29	3.33	3.36	3.42	
75.0				3.16	3.27	3.39	3.49	3.53	3.59	3.63	3.67		

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	7.24	7.43	7.60	7.73	7.83	7.89							
25.0	7.53	7.74	7.93	8.10	8.23	8.32	8.36						
30.0	7.83	8.07	8.29	8.49	8.65	8.78	8.85	8.87	8.87				
35.0	8.16	8.43	8.68	8.91	9.11	9.28	9.39	9.42	9.45	9.46	9.45		
40.0	8.53	8.84	9.13	9.39	9.63	9.83	9.99	10.04	10.10	10.12	10.14	10.11	
45.0	8.97	9.31	9.63	9.94	10.22	10.47	10.67	10.74	10.82	10.87	10.91	10.94	10.89
50.0	9.48	9.85	10.22	10.57	10.90	11.19	11.44	11.52	11.64	11.72	11.78	11.86	11.87
55.0	10.07	10.49	10.91	11.30	11.67	12.01	12.31	12.42	12.57	12.67	12.77	12.90	12.96
60.0		11.24	11.70	12.14	12.57	12.96	13.31	13.44	13.62	13.76	13.88	14.07	14.20
65.0			12.62	13.12	13.59	14.04	14.45	14.60	14.82	14.98	15.13	15.39	15.58
70.0				14.24	14.77	15.27	15.74	15.92	16.17	16.36	16.55	16.87	
75.0				15.51	16.10	16.67	17.20	17.40	17.69	17.92	18.13		

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	15.60	19.75	24.70	30.50	37.30	45.20							
25.0	15.25	19.40	24.40	30.20	36.90	44.70	53.70						
30.0	14.90	19.10	24.00	29.80	36.50	44.30	53.20	57.10	63.30				
35.0	14.60	18.80	23.70	29.50	36.20	43.90	52.70	56.60	62.80	68.30	74.10		
40.0	14.30	18.55	23.40	29.20	35.80	43.50	52.30	56.10	62.30	67.80	73.60	86.30	
45.0	14.05	18.30	23.20	28.90	35.50	43.10	51.90	55.70	61.80	67.30	73.10	85.80	99.90
50.0	13.80	18.05	23.00	28.60	35.20	42.80	51.50	55.30	61.40	66.80	72.60	85.30	99.40
55.0	13.60	17.90	22.80	28.40	34.90	42.50	51.10	54.90	61.00	66.40	72.20	84.80	99.00
60.0		17.75	22.60	28.20	34.70	42.20	50.80	54.60	60.60	66.10	71.80	84.50	98.60
65.0			22.50	28.10	34.50	42.00	50.50	54.30	60.40	65.80	71.50	84.20	98.40
70.0				28.10	34.50	41.80	50.40	54.10	60.20	65.60	71.40	84.10	
75.0				28.20	34.50	41.90	50.40	54.10	60.20	65.60	71.40		

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	11.7
Length/Width, mm	247/241
Height, mm	438
Net Weight, kg	38
Gross Weight, kg	41
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.89
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	62
Sound Power (HT), dBA	73
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Low Side Internal Free Volume, l	0.6
Max. High Side Internal Free Volume, l	6.0
Max. Internal Free Volume, l	6.60
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

ZH30K4E-PFJ

R134a

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

Maximum Operating Current, A	25
Locked Rotor Current, A	108
Winding Resistance, ohm	0.6/1.95 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Standard
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### **ACCESSORIES OPTIONAL**

Discharge Temperature Protection	Discharge line thermostat
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### **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