



Minimum Evaporating Temp. With:

- 10 K Suction Superheat    — 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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
10.0	1.56	2.17	2.89	3.72						
15.0	1.52	2.11	2.79	3.57	4.47					
20.0	1.47	2.05	2.69	3.43	4.28	5.25				
25.0	1.42	1.98	2.60	3.30	4.10	5.01	6.05			
30.0	1.35	1.90	2.50	3.17	3.93	4.79	5.76	6.18		
35.0	1.26	1.82	2.40	3.05	3.76	4.57	5.49	5.88	6.51	7.07
40.0	1.16	1.71	2.29	2.91	3.60	4.37	5.22	5.60	6.19	6.72
45.0	1.02	1.59	2.17	2.77	3.43	4.16	4.97	5.32	5.88	6.37
50.0		1.44	2.02	2.62	3.26	3.95	4.72	5.05	5.58	6.04
55.0			1.86	2.46	3.08	3.74	4.47	4.79	5.28	5.72
60.0				2.27	2.88	3.53	4.23	4.52	4.99	5.41
65.0					2.68	3.30	3.98	4.26	4.71	5.10

50 Hz

ZS13KAE-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
10.0	0.32	0.30	0.32	0.36						
15.0	0.52	0.50	0.50	0.53	0.56					
20.0	0.70	0.67	0.67	0.69	0.70	0.71				
25.0	0.86	0.83	0.82	0.84	0.85	0.85	0.82			
30.0	1.00	0.97	0.97	0.98	0.98	0.98	0.95	0.93		
35.0	1.11	1.09	1.10	1.11	1.12	1.12	1.08	1.06	1.02	0.97
40.0	1.21	1.20	1.22	1.24	1.26	1.26	1.23	1.20	1.16	1.11
45.0	1.29	1.30	1.32	1.36	1.38	1.40	1.38	1.36	1.32	1.27
50.0		1.38	1.42	1.48	1.52	1.54	1.54	1.52	1.48	1.44
55.0			1.52	1.59	1.66	1.70	1.70	1.70	1.66	1.62
60.0				1.70	1.79	1.86	1.88	1.88	1.86	1.84
65.0					1.93	2.02	2.07	2.08	2.08	2.06

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
10.0	1.27	1.22	1.33	1.53						
15.0	2.23	2.13	2.18	2.32	2.47					
20.0	3.07	2.94	2.95	3.05	3.15	3.20				
25.0	3.80	3.65	3.65	3.72	3.79	3.80	3.68			
30.0	4.43	4.29	4.28	4.34	4.40	4.40	4.26	4.15		
35.0	4.96	4.84	4.85	4.93	5.00	4.99	4.85	4.74	4.50	4.23
40.0	5.40	5.32	5.37	5.48	5.58	5.60	5.47	5.37	5.13	4.86
45.0	5.77	5.75	5.85	6.01	6.16	6.22	6.13	6.04	5.82	5.56
50.0		6.12	6.30	6.53	6.74	6.86	6.83	6.76	6.57	6.34
55.0			6.72	7.04	7.33	7.54	7.58	7.53	7.39	7.19
60.0				7.55	7.95	8.25	8.38	8.38	8.28	8.13
65.0					8.59	9.01	9.26	9.29	9.27	9.16

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
10.0	7.37	10.15	13.35	16.95						
15.0	7.44	10.20	13.30	16.80	20.80					
20.0	7.49	10.25	13.30	16.75	20.60	24.90				
25.0	7.49	10.30	13.35	16.70	20.50	24.70	29.40			
30.0	7.43	10.30	13.35	16.70	20.40	24.50	29.00	31.00		
35.0	7.26	10.25	13.35	16.70	20.30	24.30	28.80	30.70	33.70	36.40
40.0	6.96	10.15	13.35	16.70	20.30	24.20	28.60	30.50	33.40	36.00
45.0	6.48	9.89	13.25	16.65	20.30	24.20	28.50	30.30	33.20	35.70
50.0		9.49	13.05	16.55	20.20	24.10	28.40	30.20	33.00	35.50
55.0			12.70	16.40	20.20	24.10	28.30	30.10	32.90	35.40
60.0				16.15	20.10	24.10	28.40	30.10	32.90	35.40
65.0					19.90	24.10	28.40	30.20	33.10	35.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	5.04
Length/Width, mm	246/246
Height, mm	387
Net Weight, kg	22.2
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
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 (19)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Max. Internal Free Volume, l	2.00
High Side PS gauge, bar	31.9
Low Side PS gauge, bar	21.6
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	9.9
Locked Rotor Current, A	54
Winding Resistance, ohm	1.62/3.26 (R/S)
Default Enclosure Class	IP 66

**ACCESSORIES INCLUDED**

Mounting Grommets	Standard
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**ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Crankcase Heater	40 W External
Discharge Temperature Protection	Discharge line thermostat
Enclosure Class	IP66 With Molded Plug
Rotalock valves	suction and discharge

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFV	208-230 V / 1~ / 60 Hz	220		CSCR/PSC	1.04