



Minimum Evaporating Temp. With:

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

Suction Return Temperature 18.3°C

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
10.0	1.94	2.63	3.33	4.07					
15.0	1.76	2.41	3.07	3.78	4.57				
20.0	1.64	2.26	2.87	3.54	4.30	5.18			
25.0	1.58	2.14	2.72	3.34	4.06	4.92			
30.0	1.54	2.05	2.59	3.17	3.86	4.68	5.67	6.13	
35.0	1.52	1.98	2.47	3.01	3.66	4.44	5.41	5.85	6.59
40.0		1.91	2.35	2.85	3.46	4.20	5.14	5.57	6.29
45.0			2.22	2.67	3.23	3.94	4.84	5.26	5.96
50.0			2.06	2.46	2.98	3.65	4.51	4.92	5.60
55.0				2.21	2.68	3.31	4.13	4.52	5.18
60.0					2.32	2.90	3.68	4.06	4.70

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	0.65	0.67	0.69	0.71					
15.0	0.69	0.72	0.74	0.76	0.78				
20.0	0.75	0.78	0.80	0.82	0.84	0.86			
25.0	0.82	0.85	0.87	0.89	0.91	0.94			
30.0	0.89	0.93	0.96	0.98	1.01	1.03	1.06	1.07	
35.0	0.98	1.02	1.06	1.08	1.11	1.14	1.16	1.18	1.20
40.0		1.12	1.16	1.20	1.23	1.26	1.28	1.30	1.32
45.0			1.28	1.32	1.35	1.38	1.42	1.44	1.46
50.0			1.40	1.44	1.48	1.52	1.56	1.58	1.60
55.0				1.58	1.63	1.68	1.72	1.74	1.76
60.0					1.78	1.84	1.88	1.90	1.94

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
10.0	3.67	3.70	3.73	3.78					
15.0	3.74	3.78	3.82	3.87	3.93				
20.0	3.86	3.93	3.98	4.03	4.09	4.16			
25.0	4.04	4.13	4.20	4.27	4.34	4.41			
30.0	4.27	4.38	4.48	4.57	4.65	4.74	4.83	4.87	
35.0	4.55	4.70	4.83	4.94	5.04	5.14	5.25	5.29	5.36
40.0		5.07	5.23	5.37	5.50	5.62	5.75	5.80	5.87
45.0			5.69	5.87	6.03	6.18	6.32	6.38	6.47
50.0			6.21	6.43	6.63	6.81	6.98	7.05	7.15
55.0				7.06	7.30	7.52	7.72	7.80	7.92
60.0					8.03	8.30	8.54	8.63	8.77

50 Hz

ZS13KAE-PFJ

R449A Dew Point

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
10.0	8.99	12.25	15.60	19.15					
15.0	8.47	11.65	14.90	18.45	22.50				
20.0	8.22	11.30	14.45	17.95	21.90	26.70			
25.0	8.18	11.15	14.25	17.65	21.60	26.40			
30.0	8.32	11.15	14.10	17.45	21.40	26.20	32.10	34.90	
35.0	8.57	11.25	14.10	17.35	21.20	26.00	32.00	34.90	39.60
40.0		11.40	14.10	17.20	21.00	25.90	32.00	34.90	39.80
45.0			14.00	17.00	20.80	25.60	31.80	34.80	39.80
50.0			13.75	16.60	20.30	25.10	31.50	34.50	39.70
55.0				15.85	19.45	24.30	30.80	33.90	39.30
60.0					18.10	22.90	29.60	32.80	38.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	1397
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

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

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