



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	1.51	2.01	2.58	3.24	4.00	4.88	5.27	5.90	6.46	7.06
35.0	1.36	1.86	2.41	3.05	3.79	4.64	5.01	5.61	6.16	6.74
40.0	1.21	1.68	2.22	2.84	3.55	4.37	4.73	5.31	5.84	6.40
45.0		1.50	2.02	2.61	3.30	4.09	4.44	4.99	5.50	6.04
50.0			1.79	2.36	3.02	3.78	4.11	4.65	5.13	5.65
55.0				2.09	2.72	3.45	3.77	4.28	4.74	5.24
60.0					2.39	3.08	3.39	3.88	4.32	4.79
65.0					2.02	2.68	2.97	3.44	3.86	4.31
67.0						2.51	2.80	3.26	3.67	4.11

50 Hz

ZR18K5E-PFJ

R407C Dew Point

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.74
35.0	0.92	0.92	0.92	0.91	0.90	0.88	0.88	0.87	0.86	0.85
40.0	1.04	1.04	1.03	1.03	1.02	1.01	1.00	0.99	0.98	0.97
45.0		1.18	1.18	1.17	1.16	1.14	1.14	1.12	1.12	1.10
50.0			1.34	1.34	1.32	1.30	1.30	1.28	1.27	1.26
55.0				1.52	1.51	1.48	1.48	1.46	1.45	1.44
60.0					1.72	1.70	1.69	1.67	1.66	1.64
65.0					1.98	1.95	1.94	1.92	1.90	1.88
67.0						2.06	2.04	2.02	2.00	1.98

Cond °C	Current at 230 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	3.79	3.79	3.78	3.74	3.69	3.62	3.58	3.53	3.47	3.42
35.0	4.24	4.25	4.24	4.21	4.17	4.10	4.07	4.02	3.97	3.92
40.0	4.79	4.80	4.79	4.77	4.72	4.66	4.63	4.57	4.53	4.47
45.0		5.46	5.45	5.42	5.37	5.30	5.26	5.21	5.16	5.10
50.0			6.23	6.18	6.12	6.04	6.00	5.94	5.88	5.82
55.0				7.08	7.00	6.90	6.86	6.78	6.71	6.64
60.0					8.03	7.90	7.85	7.76	7.68	7.59
65.0					9.22	9.06	8.99	8.89	8.79	8.69
67.0						9.57	9.50	9.38	9.28	9.17

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	8.84	11.55	14.60	18.05	22.00	26.40	28.40	31.50	34.30	37.20
35.0	8.39	11.20	14.30	17.80	21.70	26.20	28.20	31.30	34.10	37.10
40.0	7.80	10.70	13.85	17.40	21.40	25.90	27.90	31.00	33.90	36.80
45.0		10.00	13.25	16.85	20.90	25.50	27.50	30.70	33.50	36.50
50.0			12.45	16.15	20.30	24.90	26.90	30.20	33.00	36.10
55.0				15.20	19.40	24.10	26.20	29.50	32.40	35.50
60.0					18.25	23.10	25.20	28.50	31.50	34.60
65.0					16.70	21.70	23.90	27.30	30.30	33.50
67.0						21.00	23.20	26.70	29.80	33.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	4.39
Length/Width, mm	246/246
Height, mm	387
Net Weight, kg	22.4
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 (8.5)
Sound Pressure @ 1m (HT), dBA	54
Sound Power (HT), dBA	65
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	45
Winding Resistance, ohm	1.9/2.91 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	40 W External
Single Phase Equipment	Run Capacitor

50 Hz

ZR18K5E-PFJ

R407C Dew Point

**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
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75