



Minimum Evaporating Temp. With:

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

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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
25.0	3.30	4.24	5.34	6.62	8.08	9.73	10.45	11.55	12.55
30.0	3.02	3.93	5.01	6.25	7.67	9.27	9.96	11.05	12.05
35.0	2.72	3.61	4.66	5.87	7.25	8.80	9.47	10.55	11.45
40.0	2.40	3.27	4.29	5.46	6.80	8.30	8.95	9.98	10.90
45.0		2.91	3.90	5.03	6.32	7.77	8.40	9.39	10.25
50.0			3.47	4.57	5.81	7.21	7.82	8.77	9.62
55.0				4.07	5.27	6.61	7.19	8.11	8.92
60.0					4.67	5.97	6.52	7.41	8.18
65.0						5.27	5.80	6.65	7.39

50 Hz

ZP31K5E-PFJ

R410A Dew Point

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	1.27	1.26	1.24	1.21	1.18	1.16	1.14	1.12	1.11
30.0	1.48	1.46	1.43	1.40	1.38	1.36	1.34	1.34	1.32
35.0	1.72	1.68	1.64	1.62	1.58	1.56	1.56	1.54	1.54
40.0	1.99	1.94	1.90	1.86	1.82	1.79	1.78	1.77	1.76
45.0		2.25	2.19	2.13	2.08	2.05	2.04	2.02	2.02
50.0			2.53	2.46	2.39	2.35	2.33	2.31	2.30
55.0				2.84	2.76	2.69	2.67	2.65	2.63
60.0					3.19	3.10	3.07	3.03	3.01
65.0						3.58	3.54	3.49	3.45

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
25.0	5.71	5.65	5.57	5.47	5.36	5.25	5.20	5.12	5.06
30.0	6.54	6.45	6.35	6.25	6.15	6.04	6.00	5.95	5.90
35.0	7.50	7.37	7.24	7.11	7.00	6.89	6.86	6.81	6.77
40.0	8.65	8.45	8.27	8.10	7.96	7.84	7.80	7.74	7.70
45.0		9.74	9.49	9.26	9.07	8.92	8.87	8.80	8.75
50.0			10.93	10.64	10.38	10.18	10.10	10.01	9.95
55.0				12.26	11.93	11.65	11.56	11.43	11.34
60.0					13.76	13.39	13.26	13.10	12.97
65.0						15.44	15.27	15.05	14.89

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
25.0	16.70	21.20	26.40	32.30	39.10	46.60	49.90	55.00	59.50
30.0	15.90	20.50	25.70	31.80	38.60	46.20	49.50	54.70	59.20
35.0	14.95	19.65	25.00	31.20	38.10	45.80	49.10	54.30	58.90
40.0	13.85	18.65	24.20	30.40	37.40	45.20	48.50	53.80	58.40
45.0		17.45	23.10	29.40	36.50	44.50	47.80	53.20	57.90
50.0			21.70	28.20	35.50	43.50	47.00	52.40	57.20
55.0				26.70	34.10	42.30	45.90	51.40	56.20
60.0					32.40	40.90	44.50	50.10	55.10
65.0						39.00	42.70	48.60	53.70

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.13
Length/Width, mm	243/243
Height, mm	388
Net Weight, kg	21.8
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
Base mounting (hole dia), mm	190 x 190 (19)
PED Category	1
Max. Internal Free Volume, l	2.00
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Min., °C	-35
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	17.1
Locked Rotor Current, A	67
Winding Resistance, ohm	1.22/1.15 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

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