



Minimum Evaporating Temp. With:

- 10 K Suction Superheat ASERCOM certified
- 25 °C Suction Gas Return
- 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	4.46	5.62	7.01	8.65	10.55	12.75	13.70	15.25	16.65	18.10
35.0	4.18	5.30	6.64	8.23	10.05	12.20	13.10	14.60	15.90	17.35
40.0	3.87	4.95	6.24	7.76	9.53	11.55	12.45	13.90	15.15	16.50
45.0		4.56	5.80	7.26	8.95	10.90	11.75	13.10	14.35	15.65
50.0			5.33	6.72	8.33	10.20	11.00	12.30	13.50	14.70
55.0				6.13	7.67	9.43	10.20	11.45	12.55	13.75
60.0					6.96	8.63	9.37	10.55	11.60	12.70
65.0					6.20	7.78	8.47	9.59	10.60	11.65
67.0						7.43	8.10	9.19	10.15	11.20

50 Hz

ZR48K3E-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	2.18	2.17	2.15	2.14	2.12	2.10	2.09	2.07	2.06	2.04
35.0	2.44	2.43	2.41	2.40	2.38	2.35	2.34	2.32	2.30	2.28
40.0	2.74	2.72	2.71	2.69	2.67	2.64	2.62	2.60	2.58	2.55
45.0		3.06	3.04	3.02	3.00	2.96	2.95	2.92	2.90	2.87
50.0			3.42	3.40	3.38	3.34	3.33	3.30	3.27	3.24
55.0				3.85	3.82	3.78	3.77	3.74	3.71	3.67
60.0					4.34	4.30	4.28	4.25	4.22	4.18
65.0					4.94	4.90	4.88	4.84	4.81	4.78
67.0						5.16	5.14	5.11	5.08	5.04

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	11.35	11.29	11.24	11.18	11.11	11.02	10.97	10.89	10.82	10.73
35.0	12.49	12.43	12.37	12.30	12.22	12.11	12.06	11.96	11.88	11.77
40.0	13.75	13.69	13.62	13.55	13.45	13.33	13.27	13.16	13.06	12.95
45.0		15.11	15.04	14.96	14.86	14.72	14.65	14.54	14.43	14.31
50.0			16.68	16.60	16.49	16.34	16.26	16.14	16.02	15.89
55.0				18.50	18.38	18.22	18.14	18.01	17.89	17.75
60.0					20.59	20.42	20.34	20.20	20.07	19.92
65.0					23.16	22.99	22.90	22.76	22.62	22.47
67.0						24.12	24.04	23.89	23.75	23.60

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	26.10	32.30	39.70	48.20	58.00	69.00	73.80	81.50	88.20	95.40
35.0	25.60	31.90	39.40	48.00	57.80	68.90	73.70	81.40	88.20	95.30
40.0	25.00	31.40	38.90	47.50	57.40	68.60	73.40	81.10	87.90	95.10
45.0		30.50	38.10	46.80	56.80	68.00	72.90	80.60	87.40	94.60
50.0			37.10	45.90	55.90	67.20	72.10	79.80	86.70	93.90
55.0				44.60	54.70	66.10	71.00	78.80	85.70	93.00
60.0					53.20	64.70	69.60	77.50	84.50	91.90
65.0					51.30	62.90	68.00	76.00	83.00	90.50
67.0						62.10	67.20	75.30	82.40	89.90

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.4
Length/Width, mm	246/246
Height, mm	431
Net Weight, kg	32.7
Gross Weight, kg	32.7
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.36
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	57
Sound Power (HT), dBA	68
Sound Power with Sound Shell (HT), dBA	62
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	3.40
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	23.5
Locked Rotor Current, A	114
Winding Resistance, ohm	0.6/1.7 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermodisk

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor

50 Hz

ZR48K3E-PFJ

R407C Dew Point

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