



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	2.48	3.20	4.04	5.03	6.18	7.51	8.10	9.06	9.91	10.85
35.0	2.31	3.00	3.81	4.76	5.86	7.14	7.71	8.63	9.45	10.35
40.0	2.13	2.79	3.57	4.47	5.52	6.75	7.30	8.17	8.96	9.81
45.0		2.57	3.31	4.17	5.17	6.34	6.85	7.69	8.44	9.25
50.0			3.04	3.84	4.79	5.89	6.38	7.18	7.89	8.66
55.0				3.51	4.39	5.43	5.89	6.64	7.31	8.04
60.0					3.97	4.93	5.36	6.06	6.70	7.38
65.0					3.52	4.41	4.81	5.46	6.05	6.69
67.0						4.20	4.58	5.21	5.79	6.40

50 Hz

ZR28K3E-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	1.30	1.28	1.28	1.27	1.25	1.23	1.21	1.18	1.16	1.12
35.0	1.46	1.44	1.44	1.43	1.42	1.40	1.38	1.36	1.33	1.30
40.0	1.63	1.62	1.62	1.61	1.60	1.57	1.56	1.54	1.50	1.48
45.0		1.82	1.82	1.81	1.80	1.77	1.76	1.73	1.70	1.67
50.0			2.06	2.05	2.03	2.00	1.98	1.96	1.92	1.89
55.0				2.33	2.31	2.27	2.25	2.22	2.18	2.15
60.0					2.64	2.59	2.57	2.53	2.49	2.45
65.0					3.03	2.98	2.95	2.91	2.87	2.82
67.0						3.15	3.13	3.08	3.03	2.98

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	6.28	6.23	6.20	6.15	6.08	5.97	5.91	5.79	5.68	5.54
35.0	6.95	6.91	6.89	6.86	6.80	6.69	6.63	6.52	6.40	6.26
40.0	7.69	7.67	7.65	7.62	7.56	7.45	7.39	7.28	7.15	7.01
45.0		8.54	8.53	8.50	8.43	8.31	8.25	8.12	7.99	7.84
50.0			9.57	9.53	9.45	9.32	9.24	9.11	8.97	8.81
55.0				10.78	10.68	10.52	10.44	10.29	10.13	9.95
60.0					12.17	11.98	11.88	11.71	11.54	11.34
65.0					13.96	13.73	13.62	13.42	13.23	13.01
67.0						14.53	14.41	14.20	14.00	13.77

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	14.55	18.40	22.90	28.00	33.90	40.70	43.60	48.40	52.60	57.10
35.0	14.15	18.10	22.60	27.70	33.60	40.40	43.40	48.10	52.30	56.80
40.0	13.75	17.70	22.20	27.40	33.30	40.00	43.00	47.70	52.00	56.50
45.0		17.25	21.70	26.90	32.80	39.50	42.50	47.20	51.50	56.00
50.0			21.10	26.30	32.10	38.90	41.80	46.50	50.80	55.30
55.0				25.50	31.30	38.00	41.00	45.70	49.90	54.40
60.0					30.30	37.00	39.90	44.60	48.80	53.30
65.0					29.10	35.70	38.60	43.30	47.50	52.00
67.0						35.10	38.00	42.70	46.90	51.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	6.83
Length/Width, mm	246/246
Height, mm	377
Net Weight, kg	25.4
Gross Weight, kg	29
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.12
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 Power with Sound Shell (HT), dBA	59
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	2.90
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	14.8
Locked Rotor Current, A	61
Winding Resistance, ohm	1.2/2.23 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor

50 Hz

ZR28K3E-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