



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 | 1.62 | 2.14 | 2.73 | 3.41 | 4.21 | 5.15 | 5.57 | 6.25 | | |
| 35.0 | 1.48 | 1.99 | 2.56 | 3.22 | 3.99 | 4.89 | 5.29 | 5.95 | 6.54 | |
| 40.0 | 1.34 | 1.85 | 2.40 | 3.04 | 3.77 | 4.63 | 5.02 | 5.65 | 6.22 | 6.83 |
| 45.0 | | 1.71 | 2.25 | 2.85 | 3.56 | 4.38 | 4.75 | 5.34 | 5.89 | 6.48 |
| 50.0 | | 1.56 | 2.08 | 2.67 | 3.34 | 4.12 | 4.47 | 5.04 | 5.56 | 6.12 |
| 55.0 | | | 1.92 | 2.47 | 3.11 | 3.85 | 4.18 | 4.72 | 5.21 | 5.75 |
| 60.0 | | | | 2.27 | 2.88 | 3.58 | 3.89 | 4.40 | 4.86 | 5.36 |
| 65.0 | | | | 2.06 | 2.63 | 3.28 | 3.58 | 4.06 | 4.49 | 4.97 |
| 70.0 | | | | | 2.36 | 2.98 | 3.25 | 3.70 | 4.10 | 4.55 |
| 75.0 | | | | | 2.08 | 2.65 | 2.90 | 3.31 | 3.69 | 4.11 |

| 50 Hz | | ZR28K3E-PFJ | | | | | | | | | R134a |
|------------|------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 | 0.91 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | | | |
| 35.0 | 1.01 | 1.01 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.01 | | |
| 40.0 | 1.12 | 1.12 | 1.12 | 1.12 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.12 | |
| 45.0 | | 1.24 | 1.24 | 1.24 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | |
| 50.0 | | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | |
| 55.0 | | | 1.54 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.52 | 1.52 | |
| 60.0 | | | | 1.72 | 1.72 | 1.71 | 1.70 | 1.70 | 1.70 | 1.70 | |
| 65.0 | | | | 1.95 | 1.94 | 1.93 | 1.92 | 1.92 | 1.92 | 1.91 | |
| 70.0 | | | | | 2.21 | 2.19 | 2.19 | 2.18 | 2.17 | 2.16 | |
| 75.0 | | | | | 2.54 | 2.51 | 2.50 | 2.49 | 2.48 | 2.47 | |
| 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 | 4.96 | 4.95 | 4.95 | 4.96 | 4.96 | 4.94 | 4.92 | 4.89 | | | |
| 35.0 | 5.36 | 5.35 | 5.36 | 5.38 | 5.40 | 5.40 | 5.39 | 5.38 | 5.35 | | |
| 40.0 | 5.78 | 5.77 | 5.78 | 5.81 | 5.83 | 5.85 | 5.85 | 5.84 | 5.83 | 5.80 | |
| 45.0 | | 6.24 | 6.25 | 6.27 | 6.30 | 6.32 | 6.32 | 6.32 | 6.32 | 6.30 | |
| 50.0 | | 6.81 | 6.81 | 6.82 | 6.84 | 6.86 | 6.86 | 6.86 | 6.86 | 6.85 | |
| 55.0 | | | 7.49 | 7.48 | 7.49 | 7.50 | 7.50 | 7.50 | 7.49 | 7.48 | |
| 60.0 | | | | 8.30 | 8.29 | 8.28 | 8.28 | 8.27 | 8.25 | 8.24 | |
| 65.0 | | | | 9.32 | 9.28 | 9.24 | 9.23 | 9.21 | 9.19 | 9.16 | |
| 70.0 | | | | | 10.50 | 10.43 | 10.40 | 10.37 | 10.33 | 10.29 | |
| 75.0 | | | | | 11.98 | 11.87 | 11.83 | 11.77 | 11.72 | 11.67 | |
| 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 | 10.60 | 13.75 | 17.20 | 21.00 | 25.50 | 30.60 | 32.80 | 36.40 | | | |
| 35.0 | 10.20 | 13.45 | 16.95 | 20.80 | 25.30 | 30.40 | 32.60 | 36.20 | 39.50 | | |
| 40.0 | 9.80 | 13.15 | 16.70 | 20.60 | 25.10 | 30.20 | 32.40 | 36.00 | 39.30 | 42.80 | |
| 45.0 | | 12.85 | 16.45 | 20.40 | 24.90 | 30.00 | 32.20 | 35.80 | 39.10 | 42.60 | |
| 50.0 | | 12.50 | 16.20 | 20.20 | 24.70 | 29.80 | 32.00 | 35.60 | 38.90 | 42.30 | |
| 55.0 | | | 15.90 | 19.95 | 24.50 | 29.60 | 31.80 | 35.40 | 38.60 | 42.10 | |
| 60.0 | | | | 19.60 | 24.10 | 29.20 | 31.50 | 35.10 | 38.30 | 41.70 | |
| 65.0 | | | | 19.15 | 23.70 | 28.80 | 31.00 | 34.60 | 37.80 | 41.30 | |
| 70.0 | | | | | 23.10 | 28.20 | 30.40 | 34.00 | 37.30 | 40.70 | |
| 75.0 | | | | | 22.20 | 27.40 | 29.70 | 33.30 | 36.50 | 40.00 | |

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 | I |
| 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 | 1430 |
| 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 |

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 |