



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 |
| 25.0 | 2.34 | 3.05 | 3.86 | 4.79 | 5.85 | 7.06 | 7.60 | 8.45 | 9.22 |
| 30.0 | 2.15 | 2.85 | 3.63 | 4.52 | 5.53 | 6.69 | 7.20 | 8.01 | 8.74 |
| 35.0 | 1.94 | 2.62 | 3.38 | 4.24 | 5.21 | 6.31 | 6.80 | 7.57 | 8.26 |
| 40.0 | 1.70 | 2.37 | 3.11 | 3.93 | 4.86 | 5.92 | 6.38 | 7.12 | 7.78 |
| 45.0 | | 2.08 | 2.80 | 3.60 | 4.50 | 5.51 | 5.95 | 6.65 | 7.28 |
| 50.0 | | | 2.46 | 3.23 | 4.10 | 5.06 | 5.48 | 6.15 | 6.75 |
| 55.0 | | | | 2.82 | 3.65 | 4.57 | 4.97 | 5.61 | 6.18 |
| 60.0 | | | | | 3.15 | 4.03 | 4.41 | 5.01 | 5.55 |
| 65.0 | | | | | | 3.41 | 3.76 | 4.33 | 4.83 |

50 Hz

ZP24K5E-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 | 1.02 | 1.02 | 1.01 | 1.00 | 0.98 | 0.96 | 0.95 | 0.93 | 0.91 |
| 30.0 | 1.16 | 1.16 | 1.14 | 1.14 | 1.12 | 1.10 | 1.08 | 1.06 | 1.04 |
| 35.0 | 1.32 | 1.30 | 1.30 | 1.28 | 1.27 | 1.24 | 1.23 | 1.20 | 1.18 |
| 40.0 | 1.48 | 1.47 | 1.46 | 1.44 | 1.43 | 1.40 | 1.39 | 1.37 | 1.34 |
| 45.0 | | 1.66 | 1.65 | 1.63 | 1.62 | 1.58 | 1.58 | 1.55 | 1.53 |
| 50.0 | | | 1.86 | 1.84 | 1.82 | 1.80 | 1.78 | 1.76 | 1.74 |
| 55.0 | | | | 2.09 | 2.07 | 2.04 | 2.02 | 2.00 | 1.98 |
| 60.0 | | | | | 2.34 | 2.31 | 2.30 | 2.28 | 2.25 |
| 65.0 | | | | | | 2.63 | 2.61 | 2.59 | 2.57 |

| 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 | 4.55 | 4.53 | 4.52 | 4.50 | 4.46 | 4.38 | 4.33 | 4.24 | 4.14 |
| 30.0 | 5.15 | 5.11 | 5.08 | 5.05 | 5.00 | 4.90 | 4.85 | 4.75 | 4.64 |
| 35.0 | 5.81 | 5.75 | 5.71 | 5.67 | 5.60 | 5.50 | 5.44 | 5.33 | 5.22 |
| 40.0 | 6.54 | 6.47 | 6.42 | 6.37 | 6.30 | 6.19 | 6.13 | 6.02 | 5.91 |
| 45.0 | | 7.28 | 7.23 | 7.17 | 7.10 | 6.98 | 6.92 | 6.81 | 6.70 |
| 50.0 | | | 8.14 | 8.09 | 8.02 | 7.90 | 7.84 | 7.73 | 7.62 |
| 55.0 | | | | 9.14 | 9.07 | 8.96 | 8.90 | 8.80 | 8.69 |
| 60.0 | | | | | 10.27 | 10.17 | 10.11 | 10.01 | 9.91 |
| 65.0 | | | | | | 11.54 | 11.50 | 11.40 | 11.31 |

| 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 | 12.75 | 16.45 | 20.60 | 25.20 | 30.50 | 36.40 | 39.00 | 43.20 | 46.90 |
| 30.0 | 12.30 | 16.05 | 20.20 | 24.90 | 30.10 | 36.10 | 38.70 | 42.80 | 46.50 |
| 35.0 | 11.65 | 15.55 | 19.80 | 24.50 | 29.80 | 35.70 | 38.30 | 42.40 | 46.10 |
| 40.0 | 10.80 | 14.85 | 19.20 | 24.00 | 29.30 | 35.30 | 37.90 | 42.00 | 45.70 |
| 45.0 | | 13.85 | 18.40 | 23.30 | 28.80 | 34.80 | 37.40 | 41.60 | 45.30 |
| 50.0 | | | 17.25 | 22.40 | 28.00 | 34.10 | 36.80 | 41.00 | 44.70 |
| 55.0 | | | | 21.10 | 26.90 | 33.20 | 35.90 | 40.20 | 44.10 |
| 60.0 | | | | | 25.30 | 32.00 | 34.80 | 39.20 | 43.20 |
| 65.0 | | | | | | 30.30 | 33.30 | 37.90 | 42.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|------------------------------|-----------------|
| Displacement @ 50 Hz, m³/h | 3.96 |
| Length/Width, mm | 236/236 |
| Height, mm | 387 |
| Net Weight, kg | 21.9 |
| 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 (8.5) |
| PED Category | 1 |
| Max. Internal Free Volume, l | 2.10 |
| High Side PS gauge, bar | 45 |
| Low Side PS gauge, bar | 29.5 |
| Low Side TS Max., °C | 50 |
| Refrigerant's GWP | 2088 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 12.8 |
| Locked Rotor Current, A | 60 |
| Winding Resistance, ohm | 1.33/2.6 (R/S) |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|-------------------|---------------------------|
| Mounting Grommets | Rubber Grommet For Single |
|-------------------|---------------------------|

ACCESSORIES OPTIONAL

| | |
|------------------|---------------|
| Crankcase Heater | 40 W External |
|------------------|---------------|

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 |