



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Temperature -5.0°C

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 |
| -20.0 | 14.20 | 17.85 | 22.10 | 27.00 | | |
| -15.0 | 13.40 | 16.85 | 20.90 | 25.60 | 30.90 | |
| -10.0 | 12.60 | 15.90 | 19.70 | 24.10 | 29.20 | 35.00 |
| -5.0 | | 14.90 | 18.50 | 22.70 | 27.40 | 32.90 |
| 0.0 | | | 17.25 | 21.20 | 25.60 | 30.80 |
| 5.0 | | | | 19.65 | 23.80 | 28.60 |

50 Hz

ZO104KCE-TFDN

R744

| Cond °C | Power, kW | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 |
| -20.0 | 3.80 | 3.89 | 3.95 | 3.96 | | |
| -15.0 | 4.28 | 4.36 | 4.45 | 4.52 | 4.57 | |
| -10.0 | 4.90 | 4.91 | 4.98 | 5.08 | 5.19 | 5.28 |
| -5.0 | | 5.63 | 5.63 | 5.70 | 5.83 | 5.97 |
| 0.0 | | | 6.44 | 6.44 | 6.53 | 6.69 |
| 5.0 | | | | 7.36 | 7.37 | 7.49 |

| Cond °C | Current at 400 V, A | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 |
| -20.0 | 7.17 | 7.22 | 7.30 | 7.41 | | |
| -15.0 | 7.76 | 7.80 | 7.88 | 7.98 | 8.11 | |
| -10.0 | 8.48 | 8.52 | 8.60 | 8.69 | 8.82 | 8.97 |
| -5.0 | | 9.38 | 9.45 | 9.54 | 9.66 | 9.81 |
| 0.0 | | | 10.44 | 10.53 | 10.64 | 10.78 |
| 5.0 | | | | 11.65 | 11.76 | 11.90 |

| Cond °C | Suction Mass Flow, g/s | | | | | |
|------------|------------------------|-------|-------|-------|--------|--------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 |
| -20.0 | 49.40 | 61.70 | 75.90 | 92.30 | | |
| -15.0 | 48.40 | 60.60 | 74.70 | 90.90 | 109.50 | |
| -10.0 | 47.40 | 59.40 | 73.30 | 89.30 | 107.50 | 128.50 |
| -5.0 | | 58.20 | 71.80 | 87.60 | 105.50 | 126.50 |
| 0.0 | | | 70.30 | 85.70 | 103.50 | 124.00 |
| 5.0 | | | | 83.90 | 101.00 | 121.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|-------------------------------------|--------------------------|
| Displacement @ 50 Hz, m³/h | 11.7 |
| Length/Width, mm | 242/242 |
| Height, mm | 461 |
| Net Weight, kg | 40 |
| Gross Weight, kg | 46 |
| Rotalock Suction, inch | 1 1/4 |
| Rotalock Discharge, inch | 1 |
| Oil Quantity, l | 1.89 |
| Oil type (original charge) | POE RL 68 HB |
| Oil type (approved oils) | POE RL 68 HB |
| Base mounting (hole dia), mm | 190 x 190 (8.5) |
| Sound Pressure @ 1m (LT), dBA | 61 |
| Sound Power (LT), dBA | 72 |
| Sound Conditions (LT, Temperatures: | -35 / -5 / 5 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) | |
| PED Category | 1 |
| High Side PS gauge, bar | 52 |
| Low Side PS gauge, bar | 30 |
| Refrigerant's GWP | 1 |
| Refrigerant's classification | A1 |

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 15 |
| Locked Rotor Current, A | 74 |
| Winding Resistance, ohm | 2.26 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------------|
| Discharge Temperature Protection | Discharge line thermostat |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|--------------------|-----------------------------|
| Crankcase Heater | 70 W External |
| Sound Attenuation | Sound Shell (10dBA) |
| Mounting Grommets | Hard Mounts for Paralleling |
| Oil Control System | ALCO Trax-Oil OM4 |
| Discharge Shut-off | valve |
| Suction Shut-off | valve |

50 Hz

ZO104KCE-TFDN

R744

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| TFD | 380-420 V / 3~ / 50 Hz | 400 | | Y | 1.00 |