



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 | 6.34 | 8.00 | 9.92 | 12.15 | | |
| -15.0 | 5.92 | 7.52 | 9.38 | 11.55 | 14.00 | |
| -10.0 | 5.49 | 7.04 | 8.83 | 10.90 | 13.25 | 15.95 |
| -5.0 | | 6.54 | 8.26 | 10.25 | 12.50 | 15.10 |
| 0.0 | | | 7.69 | 9.58 | 11.75 | 14.20 |
| 5.0 | | | | 8.89 | 10.95 | 13.30 |

50 Hz

ZO45K3E-TFDN

R744

| Cond °C | Power, kW | | | | | |
|------------|-----------|-------|-------|-------|-------|-------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 |
| -20.0 | 1.83 | 1.82 | 1.78 | 1.74 | | |
| -15.0 | 2.06 | 2.05 | 2.03 | 1.99 | 1.94 | |
| -10.0 | 2.34 | 2.33 | 2.31 | 2.27 | 2.23 | 2.17 |
| -5.0 | | 2.66 | 2.64 | 2.61 | 2.56 | 2.50 |
| 0.0 | | | 3.04 | 3.01 | 2.96 | 2.90 |
| 5.0 | | | | 3.49 | 3.44 | 3.38 |

| Cond °C | Current at 400 V, A | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 |
| -20.0 | 3.84 | 3.83 | 3.80 | 3.77 | | |
| -15.0 | 4.07 | 4.06 | 4.03 | 3.99 | 3.94 | |
| -10.0 | 4.39 | 4.37 | 4.34 | 4.30 | 4.25 | 4.19 |
| -5.0 | | 4.77 | 4.74 | 4.70 | 4.65 | 4.58 |
| 0.0 | | | 5.23 | 5.18 | 5.13 | 5.06 |
| 5.0 | | | | 5.75 | 5.69 | 5.62 |

| Cond °C | Suction Mass Flow, g/s | | | | | |
|------------|------------------------|-------|-------|-------|-------|-------|
| | -50.0 | -45.0 | -40.0 | -35.0 | -30.0 | -25.0 |
| -20.0 | 22.00 | 27.60 | 34.10 | 41.60 | | |
| -15.0 | 21.40 | 27.00 | 33.50 | 41.00 | 49.50 | |
| -10.0 | 20.70 | 26.30 | 32.80 | 40.30 | 48.90 | 58.60 |
| -5.0 | | 25.60 | 32.10 | 39.60 | 48.20 | 57.90 |
| 0.0 | | | 31.30 | 38.80 | 47.40 | 57.20 |
| 5.0 | | | | 38.00 | 46.60 | 56.40 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--------------------------|
| Displacement @ 50 Hz, m³/h | 5.37 |
| Length/Width, mm | 242/242 |
| Height, mm | 403 |
| Net Weight, kg | 31 |
| Gross Weight, kg | 33 |
| Rotalock Suction, inch | 1 1/4 |
| Rotalock Discharge, inch | 1 |
| Oil Quantity, l | 1.42 |
| 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 | 56 |
| Sound Power (LT), dBA | 67 |
| Sound Power with Sound Shell (LT), dBA | 61 |
| 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 | 6.2 |
| Locked Rotor Current, A | 35 |
| Winding Resistance, ohm | 5.35 |
| 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 |
| Mounting Grommets | Hard Mounts for Paralleling |
| Oil Control System | ALCO Trax-Oil OM4 |
| Oil level control | Available |
| Sound Blanket | Acc6162 |
| Discharge Shut-off | valve |
| Suction Shut-off | valve |

50 Hz

ZO45K3E-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 |