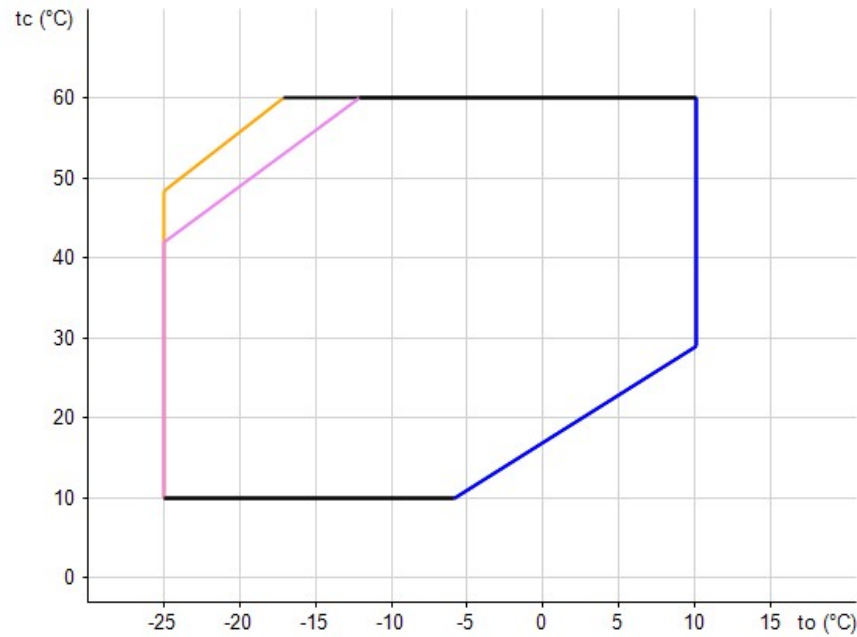


50Hz

ZB66KCE-TFD

R404A Dew Point



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K suction Superheat
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

| Cond °C | Cooling Capacity, kW | | | | | | | | |
|------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 10.0 | 12.60 | 15.55 | 19.00 | 23.10 | | | | | |
| 15.0 | 12.05 | 14.85 | 18.20 | 22.10 | 26.70 | | | | |
| 20.0 | 11.50 | 14.20 | 17.40 | 21.10 | 25.40 | 30.30 | | | |
| 25.0 | 10.90 | 13.45 | 16.50 | 20.00 | 24.10 | 28.70 | 34.00 | | |
| 30.0 | 10.25 | 12.70 | 15.55 | 18.85 | 22.70 | 27.10 | 32.00 | 34.20 | 37.60 |
| 35.0 | 9.59 | 11.90 | 14.55 | 17.65 | 21.20 | 25.30 | 29.90 | 32.00 | 35.20 |
| 40.0 | 8.88 | 11.05 | 13.55 | 16.40 | 19.70 | 23.50 | 27.80 | 29.70 | 32.60 |
| 45.0 | | 10.15 | 12.45 | 15.10 | 18.15 | 21.60 | 25.50 | 27.30 | 30.00 |
| 50.0 | | | 11.30 | 13.70 | 16.45 | 19.60 | 23.20 | 24.80 | 27.30 |
| 55.0 | | | 10.05 | 12.25 | 14.70 | 17.55 | 20.80 | 22.20 | 24.50 |
| 60.0 | | | | 10.70 | 12.90 | 15.40 | 18.30 | 19.55 | 21.60 |

50Hz

ZB66KCE-TFD

R404A Dew Point

| Cond °C | Power, kW | | | | | | | | |
|------------|-----------|-------|-------|-------|------|------|------|------|------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 10.0 | 3.31 | 3.36 | 3.42 | 3.50 | | | | | |
| 15.0 | 3.69 | 3.74 | 3.80 | 3.87 | 3.99 | | | | |
| 20.0 | 4.09 | 4.15 | 4.20 | 4.27 | 4.36 | 4.51 | | | |
| 25.0 | 4.53 | 4.59 | 4.64 | 4.70 | 4.78 | 4.90 | 5.09 | | |
| 30.0 | 5.02 | 5.09 | 5.14 | 5.18 | 5.25 | 5.35 | 5.50 | 5.58 | 5.73 |
| 35.0 | 5.58 | 5.65 | 5.70 | 5.73 | 5.78 | 5.85 | 5.98 | 6.05 | 6.17 |
| 40.0 | 6.22 | 6.29 | 6.33 | 6.36 | 6.39 | 6.44 | 6.53 | 6.58 | 6.68 |
| 45.0 | | 7.03 | 7.06 | 7.08 | 7.09 | 7.11 | 7.17 | 7.21 | 7.29 |
| 50.0 | | | 7.90 | 7.90 | 7.89 | 7.89 | 7.92 | 7.94 | 7.99 |
| 55.0 | | | 8.85 | 8.84 | 8.81 | 8.78 | 8.78 | 8.79 | 8.81 |
| 60.0 | | | | 9.91 | 9.86 | 9.81 | 9.77 | 9.76 | 9.76 |

| Cond °C | Current at 400 V, A | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 10.0 | 9.57 | 9.60 | 9.64 | 9.71 | | | | | |
| 15.0 | 9.86 | 9.91 | 9.96 | 10.03 | 10.13 | | | | |
| 20.0 | 10.20 | 10.26 | 10.31 | 10.37 | 10.47 | 10.62 | | | |
| 25.0 | 10.59 | 10.66 | 10.72 | 10.78 | 10.86 | 10.99 | 11.18 | | |
| 30.0 | 11.08 | 11.15 | 11.21 | 11.26 | 11.33 | 11.43 | 11.60 | 11.68 | 11.83 |
| 35.0 | 11.68 | 11.75 | 11.80 | 11.84 | 11.90 | 11.98 | 12.11 | 12.18 | 12.31 |
| 40.0 | 12.41 | 12.48 | 12.53 | 12.56 | 12.59 | 12.64 | 12.74 | 12.79 | 12.90 |
| 45.0 | | 13.37 | 13.41 | 13.42 | 13.43 | 13.45 | 13.51 | 13.55 | 13.63 |
| 50.0 | | | 14.46 | 14.45 | 14.44 | 14.43 | 14.45 | 14.47 | 14.52 |
| 55.0 | | | 15.72 | 15.69 | 15.64 | 15.60 | 15.58 | 15.58 | 15.60 |
| 60.0 | | | | 17.15 | 17.07 | 16.99 | 16.93 | 16.91 | 16.90 |

50Hz

ZB66KCE-TFD

R404A Dew Point

| Cond °C | Suction Mass Flow, g/s | | | | | | | | |
|------------|------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 |
| 10.0 | 70.90 | 87.80 | 108.00 | 132.50 | | | | | |
| 15.0 | 70.70 | 87.70 | 108.00 | 132.50 | 161.00 | | | | |
| 20.0 | 70.40 | 87.40 | 108.00 | 132.00 | 160.00 | 193.50 | | | |
| 25.0 | 70.00 | 87.00 | 107.50 | 131.50 | 159.50 | 192.50 | 231.00 | | |
| 30.0 | 69.40 | 86.40 | 106.50 | 130.50 | 158.50 | 191.00 | 229.00 | 246.00 | 274.00 |
| 35.0 | 68.50 | 85.50 | 105.50 | 129.00 | 157.00 | 189.50 | 227.00 | 244.00 | 272.00 |
| 40.0 | 67.40 | 84.40 | 104.50 | 127.50 | 155.00 | 187.00 | 225.00 | 242.00 | 269.00 |
| 45.0 | | 82.80 | 102.50 | 125.50 | 153.00 | 184.50 | 222.00 | 239.00 | 266.00 |
| 50.0 | | | 100.50 | 123.00 | 150.00 | 181.50 | 219.00 | 236.00 | 263.00 |
| 55.0 | | | 97.60 | 120.00 | 147.00 | 178.00 | 215.00 | 232.00 | 260.00 |
| 60.0 | | | | 117.00 | 143.00 | 174.50 | 212.00 | 229.00 | 257.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Displacement @ 50 Hz, m³/h | 24.9 |
| Length/Width, mm | 264/284 |
| Height, mm | 533 |
| Net Weight, kg | 59.9 |
| Rotalock Suction, inch | 1 3/4 |
| Rotalock Discharge, inch | 1 1/4 |
| Oil Quantity, l | 3.25 |
| 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 (MT), dBA | 66 |
| Sound Power (MT), dBA | 77 |
| Sound Power with Sound Shell (MT), dBA | 67 |
| Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed) | -10 / 45 / 20 °C at 50 Hz |
| PED Category | 2 |
| Internal Free Volume, l | 13.3 |
| High Side PS gauge, bar | 32 |
| Low Side PS gauge, bar | 22.6 |
| Low Side TS Max., °C | 50 |
| Low Side TS Min., °C | -35 |
| Refrigerant's GWP | 3922 |
| Refrigerant's classification | A1 |

50Hz

ZB66KCE-TFD

R404A Dew Point

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 17.5 |
| Locked Rotor Current, A | 111 |
| Winding Resistance, ohm | 1.36 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------|
| Discharge Temperature Protection | Internal Thermistor |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|--------------------|-----------------------------|
| Crankcase Heater | 66 W External |
| Enclosure Class | IP66 With Molded Plug |
| Mounting Grommets | Hard Mounts for Paralleling |
| Oil Control System | ALCO Trax-Oil OM3 |
| Sound Attenuation | Sound Shell (10dBA) |
| Rotalock valves | suction and discharge |

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 |
| TF5 | 200-220 V / 3~ / 50 Hz | 200 | | Y | 2.09 |
| TW5 | 200-220 V / 3~ / 50 Hz | 200 | | Y | 2.30 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |
| TF5 | 200-230 V / 3~ / 60 Hz | 230 | | Y | 2.09 |
| TFE | 575 V / 3~ / 60 Hz | 575 | | Y | 0.80 |