



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 | 9.76 | 12.45 | 15.65 | 19.50 | 24.00 | 29.20 | 31.50 | 35.30 | | |
| 35.0 | 9.18 | 11.75 | 14.85 | 18.50 | 22.80 | 27.80 | 30.10 | 33.60 | 36.90 | |
| 40.0 | 8.59 | 11.05 | 14.00 | 17.50 | 21.60 | 26.40 | 28.50 | 32.00 | 35.00 | 38.30 |
| 45.0 | | 10.35 | 13.15 | 16.50 | 20.40 | 25.00 | 27.00 | 30.20 | 33.20 | 36.30 |
| 50.0 | | 9.60 | 12.25 | 15.45 | 19.15 | 23.50 | 25.40 | 28.50 | 31.30 | 34.30 |
| 55.0 | | | 11.35 | 14.35 | 17.85 | 21.90 | 23.80 | 26.70 | 29.30 | 32.20 |
| 60.0 | | | | 13.20 | 16.50 | 20.40 | 22.10 | 24.90 | 27.40 | 30.00 |
| 65.0 | | | | 12.10 | 15.15 | 18.75 | 20.40 | 23.00 | 25.30 | 27.90 |
| 70.0 | | | | | 13.75 | 17.10 | 18.60 | 21.10 | 23.30 | 25.60 |
| 75.0 | | | | | 12.30 | 15.40 | 16.80 | 19.05 | 21.10 | 23.30 |

50 Hz

ZRT162KCE-TFD

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 | 4.50 | 4.56 | 4.59 | 4.60 | 4.63 | 4.67 | 4.69 | 4.74 | | |
| 35.0 | 5.03 | 5.09 | 5.12 | 5.15 | 5.18 | 5.22 | 5.25 | 5.31 | 5.36 | |
| 40.0 | 5.62 | 5.68 | 5.72 | 5.75 | 5.78 | 5.83 | 5.86 | 5.92 | 5.98 | 6.05 |
| 45.0 | | 6.35 | 6.39 | 6.42 | 6.45 | 6.50 | 6.53 | 6.59 | 6.65 | 6.72 |
| 50.0 | | 7.11 | 7.14 | 7.17 | 7.20 | 7.25 | 7.28 | 7.33 | 7.39 | 7.47 |
| 55.0 | | | 8.00 | 8.01 | 8.04 | 8.08 | 8.11 | 8.16 | 8.22 | 8.29 |
| 60.0 | | | | 8.97 | 8.99 | 9.02 | 9.05 | 9.09 | 9.15 | 9.21 |
| 65.0 | | | | 10.05 | 10.05 | 10.05 | 10.10 | 10.15 | 10.20 | 10.25 |
| 70.0 | | | | | 11.25 | 11.25 | 11.25 | 11.30 | 11.35 | 11.40 |
| 75.0 | | | | | 12.55 | 12.55 | 12.55 | 12.60 | 12.65 | 12.65 |

| Cond °C | Current at 400 V, A | | | | | | | | | |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 30.0 | 13.82 | 13.84 | 13.84 | 13.85 | 13.86 | 13.90 | 13.93 | 13.99 | | |
| 35.0 | 14.24 | 14.27 | 14.29 | 14.30 | 14.33 | 14.38 | 14.41 | 14.47 | 14.54 | |
| 40.0 | 14.75 | 14.79 | 14.82 | 14.84 | 14.88 | 14.94 | 14.97 | 15.04 | 15.10 | 15.19 |
| 45.0 | | 15.43 | 15.46 | 15.49 | 15.53 | 15.59 | 15.63 | 15.70 | 15.76 | 15.85 |
| 50.0 | | 16.21 | 16.24 | 16.27 | 16.31 | 16.38 | 16.41 | 16.48 | 16.54 | 16.63 |
| 55.0 | | | 17.18 | 17.21 | 17.25 | 17.31 | 17.34 | 17.40 | 17.47 | 17.55 |
| 60.0 | | | | 18.33 | 18.36 | 18.41 | 18.44 | 18.50 | 18.56 | 18.64 |
| 65.0 | | | | 19.65 | 19.67 | 19.71 | 19.73 | 19.79 | 19.84 | 19.91 |
| 70.0 | | | | | 21.20 | 21.23 | 21.25 | 21.29 | 21.34 | 21.40 |
| 75.0 | | | | | 22.98 | 22.99 | 23.00 | 23.03 | 23.07 | 23.13 |

| 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 | 64.10 | 80.00 | 98.60 | 120.00 | 145.00 | 173.50 | 186.00 | 206.00 | | |
| 35.0 | 63.40 | 79.40 | 98.00 | 119.50 | 144.50 | 173.00 | 185.00 | 205.00 | 222.00 | |
| 40.0 | 62.50 | 78.60 | 97.30 | 119.00 | 144.00 | 172.00 | 184.50 | 204.00 | 221.00 | 240.00 |
| 45.0 | | 77.70 | 96.50 | 118.00 | 143.00 | 171.00 | 183.50 | 203.00 | 220.00 | 239.00 |
| 50.0 | | 76.60 | 95.40 | 117.00 | 141.50 | 170.00 | 182.00 | 202.00 | 219.00 | 237.00 |
| 55.0 | | | 94.10 | 115.50 | 140.50 | 168.50 | 180.50 | 200.00 | 217.00 | 236.00 |
| 60.0 | | | | 114.00 | 138.50 | 166.50 | 179.00 | 198.00 | 216.00 | 234.00 |
| 65.0 | | | | 112.00 | 136.50 | 164.50 | 177.00 | 196.00 | 213.00 | 232.00 |
| 70.0 | | | | | 134.50 | 162.50 | 174.50 | 194.00 | 211.00 | 229.00 |
| 75.0 | | | | | 132.00 | 160.00 | 172.00 | 191.50 | 209.00 | 227.00 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|--|
| Displacement @ 50 Hz, m³/h | 38.5 |
| Length/Width, mm | 626/318 |
| Height, mm | 483 |
| Net Weight, kg | 93 |
| Gross Weight, kg | 113 |
| Stub Suction, inch | 1 1/8 |
| Stub Discharge, inch | 1 1/8 |
| Oil Quantity, l | 3.37 |
| 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 | 546 x 190.5 (22.4) |
| Sound Pressure @ 1m (HT), dBA | 64 |
| Sound Power (HT), dBA | 75 |
| Sound Power with Sound Shell (HT), dBA | 70 |
| Sound Conditions (HT, Temperatures: | 7 / 54 / 18 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) | |
| Max. Internal Free Volume, l | 8.50 |
| High Side PS gauge, bar | 29.5 |
| Low Side PS gauge, bar | 20 |
| Refrigerant's GWP | 1430 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 2 x 15 |
| Locked Rotor Current, A | 2 x 101 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------|
| Discharge Temperature Protection | Internal Thermodisk |
| Capacity Control | Capacity Steps 50% |

ACCESSORIES OPTIONAL

| | |
|------------------|-------------------|
| Crankcase Heater | 2 x 70 W External |
|------------------|-------------------|

50 Hz

ZRT162KCE-TFD

R134a

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 |
| TFD | 460 V / 3~ / 60 Hz | 460 | | Y | 1.04 |