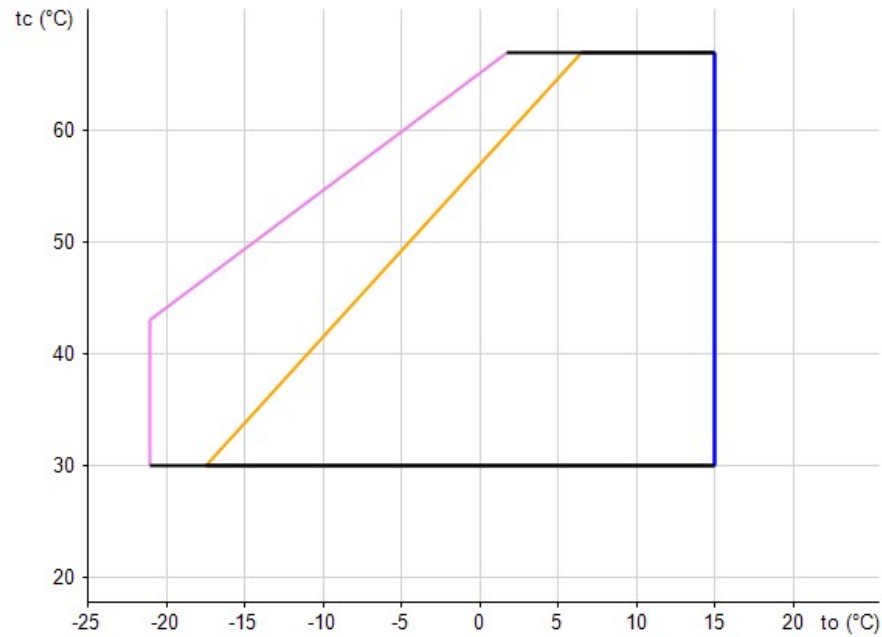


50 Hz

ZR34K3E-TFD

R407C Dew Point



Minimum Evaporating Temp. With:

- 10 K Suction Superheat ASERCOM certified
- 25 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond<br>°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       | 2.91                 | 3.73  | 4.70  | 5.84 | 7.18 | 8.73 | 9.42 | 10.50 | 11.50 | 12.55 |
| 35.0       | 2.69                 | 3.48  | 4.43  | 5.53 | 6.83 | 8.33 | 8.99 | 10.05 | 11.00 | 12.05 |
| 40.0       | 2.47                 | 3.23  | 4.14  | 5.20 | 6.45 | 7.90 | 8.54 | 9.57  | 10.50 | 11.45 |
| 45.0       |                      | 2.96  | 3.83  | 4.85 | 6.05 | 7.44 | 8.05 | 9.04  | 9.93  | 10.90 |
| 50.0       |                      |       | 3.51  | 4.48 | 5.63 | 6.95 | 7.54 | 8.49  | 9.34  | 10.25 |
| 55.0       |                      |       |       | 4.10 | 5.18 | 6.45 | 7.01 | 7.91  | 8.72  | 9.60  |
| 60.0       |                      |       |       |      | 4.72 | 5.91 | 6.45 | 7.30  | 8.08  | 8.91  |
| 65.0       |                      |       |       |      | 4.24 | 5.36 | 5.86 | 6.67  | 7.40  | 8.19  |
| 67.0       |                      |       |       |      |      | 5.13 | 5.62 | 6.41  | 7.13  | 7.90  |

50 Hz

ZR34K3E-TFD

R407C Dew Point

| Cond<br>°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       | 1.42      | 1.42  | 1.42  | 1.41 | 1.40 | 1.38 | 1.38 | 1.36 | 1.34 | 1.32 |
| 35.0       | 1.62      | 1.61  | 1.61  | 1.60 | 1.60 | 1.58 | 1.57 | 1.55 | 1.53 | 1.50 |
| 40.0       | 1.83      | 1.83  | 1.83  | 1.83 | 1.82 | 1.80 | 1.78 | 1.76 | 1.74 | 1.70 |
| 45.0       |           | 2.08  | 2.08  | 2.08 | 2.07 | 2.04 | 2.03 | 2.00 | 1.98 | 1.94 |
| 50.0       |           |       | 2.36  | 2.36 | 2.35 | 2.32 | 2.30 | 2.27 | 2.24 | 2.20 |
| 55.0       |           |       |       | 2.68 | 2.66 | 2.63 | 2.61 | 2.58 | 2.55 | 2.50 |
| 60.0       |           |       |       |      | 3.02 | 2.98 | 2.96 | 2.93 | 2.89 | 2.84 |
| 65.0       |           |       |       |      | 3.42 | 3.38 | 3.36 | 3.32 | 3.28 | 3.23 |
| 67.0       |           |       |       |      |      | 3.55 | 3.53 | 3.49 | 3.44 | 3.39 |

| Cond<br>°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       | 3.34                | 3.33  | 3.32  | 3.32 | 3.31 | 3.29 | 3.28 | 3.26 | 3.23 | 3.20 |
| 35.0       | 3.53                | 3.52  | 3.52  | 3.52 | 3.51 | 3.49 | 3.48 | 3.45 | 3.42 | 3.38 |
| 40.0       | 3.77                | 3.77  | 3.77  | 3.77 | 3.77 | 3.74 | 3.72 | 3.69 | 3.66 | 3.61 |
| 45.0       |                     | 4.07  | 4.08  | 4.08 | 4.07 | 4.04 | 4.02 | 3.98 | 3.94 | 3.89 |
| 50.0       |                     |       | 4.43  | 4.44 | 4.43 | 4.39 | 4.37 | 4.32 | 4.28 | 4.22 |
| 55.0       |                     |       |       | 4.86 | 4.84 | 4.80 | 4.78 | 4.73 | 4.68 | 4.61 |
| 60.0       |                     |       |       |      | 5.33 | 5.28 | 5.25 | 5.19 | 5.14 | 5.07 |
| 65.0       |                     |       |       |      | 5.89 | 5.83 | 5.80 | 5.73 | 5.67 | 5.59 |
| 67.0       |                     |       |       |      |      | 6.07 | 6.03 | 5.97 | 5.90 | 5.82 |

| Cond<br>°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       | 17.00                  | 21.40 | 26.60 | 32.60 | 39.40 | 47.30 | 50.70 | 56.20 | 61.00 | 66.20 |
| 35.0       | 16.50                  | 21.00 | 26.20 | 32.30 | 39.20 | 47.10 | 50.60 | 56.10 | 61.00 | 66.20 |
| 40.0       | 15.90                  | 20.50 | 25.80 | 31.80 | 38.80 | 46.80 | 50.30 | 55.90 | 60.80 | 66.10 |
| 45.0       |                        | 19.85 | 25.20 | 31.30 | 38.40 | 46.40 | 49.90 | 55.50 | 60.50 | 65.80 |
| 50.0       |                        |       | 24.40 | 30.60 | 37.70 | 45.80 | 49.40 | 55.10 | 60.10 | 65.50 |
| 55.0       |                        |       |       | 29.80 | 37.00 | 45.20 | 48.70 | 54.50 | 59.60 | 65.00 |
| 60.0       |                        |       |       |       | 36.10 | 44.30 | 47.90 | 53.70 | 58.90 | 64.40 |
| 65.0       |                        |       |       |       | 35.00 | 43.40 | 47.00 | 52.90 | 58.10 | 63.70 |
| 67.0       |                        |       |       |       |       | 42.90 | 46.60 | 52.50 | 57.80 | 63.40 |

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| Displacement @ 50 Hz, m <sup>3</sup> /h | 8.03                                         |
| Length/Width, mm                        | 246/246                                      |
| Height, mm                              | 400                                          |
| Net Weight, kg                          | 28.5                                         |
| Gross Weight, kg                        | 30                                           |
| Stub Suction, inch                      | 3/4                                          |
| Stub Discharge, inch                    | 1/2                                          |
| Oil Quantity, l                         | 1.24                                         |
| Oil type (original charge)              | POE RL32-3MAF                                |
| Oil type (approved oils)                | POE RL32-3MAF, POE MOBIL<br>EAL Arctic 22 CC |
| Base mounting (hole dia), mm            | 190 x 190 (8.5)                              |
| Sound Pressure @ 1m (HT), dBA           | 57                                           |
| Sound Power (HT), dBA                   | 68                                           |
| Sound Power with Sound Shell (HT), dBA  | 61                                           |
| Sound Conditions (HT, Temperatures:     | 7 / 54 / 18 °C at 50 Hz                      |
| Evap./Cond./Suction at freq./speed)     |                                              |
| PED Category                            | 1                                            |
| Max. Internal Free Volume, l            | 2.60                                         |
| High Side PS gauge, bar                 | 29.5                                         |
| Low Side PS gauge, bar                  | 20                                           |
| Low Side TS Max., °C                    | 50                                           |
| Refrigerant's GWP                       | 1774                                         |
| Refrigerant's classification            | A1                                           |

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

|                              |                |
|------------------------------|----------------|
| Maximum Operating Current, A | 6.3            |
| Locked Rotor Current, A      | 40             |
| Winding Resistance, ohm      | 4.83           |
| Default Enclosure Class      | IP 21 (IEC 34) |

**ACCESSORIES INCLUDED**

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

**ACCESSORIES OPTIONAL**

|                  |               |
|------------------|---------------|
| Crankcase Heater | 70 W External |
|------------------|---------------|

**MOTOR OPTIONS**

| <i><b>Motor Code</b></i> | <i><b>Power Supply</b></i> | <i><b>Nominal Voltage, V</b></i> | <i><b>Start Connection</b></i> | <i><b>DOL Connection</b></i> | <i><b>Amps Factor</b></i> |
|--------------------------|----------------------------|----------------------------------|--------------------------------|------------------------------|---------------------------|
| TFD                      | 380-420 V / 3~ / 50 Hz     | 400                              |                                | Y                            | 1.00                      |
| TF5                      | 200-220 V / 3~ / 50 Hz     | 200                              |                                | Y                            | 2.09                      |
| TFD                      | 460 V / 3~ / 60 Hz         | 460                              |                                | Y                            | 1.04                      |
| TF5                      | 200-230 V / 3~ / 60 Hz     | 230                              |                                | Y                            | 2.09                      |