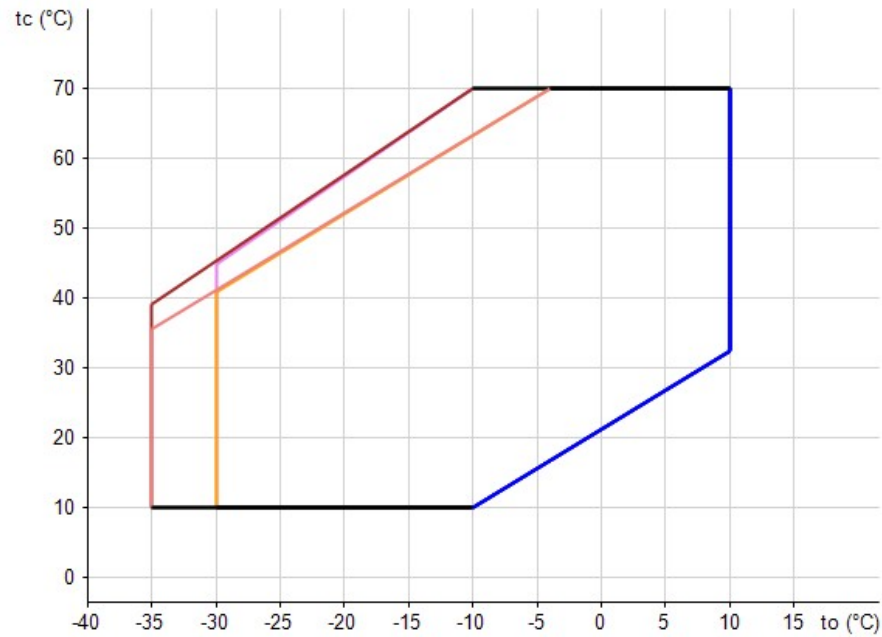




Minimum Evaporating Temp. With:

- 10 K Suction Superheat      — 20 K Suction Superheat
- 10 K Suction Superheat OEM envelope      — 20 K Suction Superheat OEM envelope
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

| Cond<br>°C | Cooling Capacity, kW |       |       |       |       |       |      |      |      |      |      |
|------------|----------------------|-------|-------|-------|-------|-------|------|------|------|------|------|
|            | -35.0                | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0  | 5.0  | 7.0  | 10.0 |
| 10.0       | 2.06                 | 2.58  | 3.20  | 3.95  | 4.83  | 5.85  |      |      |      |      |      |
| 15.0       | 1.96                 | 2.46  | 3.06  | 3.79  | 4.64  | 5.64  |      |      |      |      |      |
| 20.0       | 1.85                 | 2.34  | 2.93  | 3.63  | 4.46  | 5.42  | 6.52 |      |      |      |      |
| 25.0       | 1.75                 | 2.22  | 2.79  | 3.47  | 4.27  | 5.19  | 6.26 | 7.48 |      |      |      |
| 30.0       | 1.65                 | 2.10  | 2.65  | 3.31  | 4.07  | 4.97  | 5.99 | 7.17 | 8.50 | 9.08 |      |
| 35.0       | 1.55                 | 1.99  | 2.52  | 3.14  | 3.88  | 4.73  | 5.72 | 6.85 | 8.13 | 8.69 | 9.57 |
| 40.0       |                      | 1.88  | 2.38  | 2.97  | 3.67  | 4.49  | 5.44 | 6.52 | 7.75 | 8.28 | 9.14 |
| 45.0       |                      | 1.76  | 2.24  | 2.80  | 3.47  | 4.25  | 5.15 | 6.18 | 7.36 | 7.87 | 8.69 |
| 50.0       |                      |       | 2.10  | 2.63  | 3.26  | 4.00  | 4.85 | 5.84 | 6.96 | 7.45 | 8.23 |
| 55.0       |                      |       |       | 2.46  | 3.05  | 3.74  | 4.55 | 5.48 | 6.55 | 7.02 | 7.76 |
| 60.0       |                      |       |       |       | 2.83  | 3.48  | 4.24 | 5.12 | 6.13 | 6.57 | 7.28 |
| 65.0       |                      |       |       |       |       | 3.22  | 3.93 | 4.75 | 5.70 | 6.12 | 6.79 |
| 70.0       |                      |       |       |       |       | 2.95  | 3.61 | 4.38 | 5.27 | 5.66 | 6.30 |

50 Hz

ZH06KCU-TFD

R290

| Cond<br>°C | Power, kW |       |       |       |       |       |      |      |      |      |      |
|------------|-----------|-------|-------|-------|-------|-------|------|------|------|------|------|
|            | -35.0     | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0  | 5.0  | 7.0  | 10.0 |
| 10.0       | 0.88      | 0.89  | 0.90  | 0.92  | 0.94  | 0.97  |      |      |      |      |      |
| 15.0       | 0.94      | 0.96  | 0.97  | 0.99  | 1.02  | 1.04  |      |      |      |      |      |
| 20.0       | 1.00      | 1.02  | 1.05  | 1.08  | 1.10  | 1.12  | 1.16 |      |      |      |      |
| 25.0       | 1.06      | 1.10  | 1.13  | 1.16  | 1.18  | 1.22  | 1.25 | 1.29 |      |      |      |
| 30.0       | 1.12      | 1.18  | 1.22  | 1.25  | 1.28  | 1.32  | 1.34 | 1.38 | 1.43 | 1.45 |      |
| 35.0       | 1.19      | 1.26  | 1.30  | 1.35  | 1.38  | 1.42  | 1.46 | 1.50 | 1.54 | 1.56 | 1.58 |
| 40.0       |           | 1.34  | 1.40  | 1.46  | 1.50  | 1.54  | 1.58 | 1.62 | 1.66 | 1.67 | 1.70 |
| 45.0       |           | 1.42  | 1.50  | 1.56  | 1.62  | 1.66  | 1.70 | 1.74 | 1.78 | 1.80 | 1.83 |
| 50.0       |           |       | 1.60  | 1.68  | 1.74  | 1.80  | 1.85 | 1.89 | 1.94 | 1.95 | 1.98 |
| 55.0       |           |       |       | 1.80  | 1.88  | 1.94  | 2.00 | 2.05 | 2.09 | 2.11 | 2.14 |
| 60.0       |           |       |       |       | 2.03  | 2.10  | 2.17 | 2.22 | 2.27 | 2.29 | 2.32 |
| 65.0       |           |       |       |       |       | 2.27  | 2.34 | 2.41 | 2.46 | 2.48 | 2.51 |
| 70.0       |           |       |       |       |       | 2.44  | 2.53 | 2.60 | 2.67 | 2.69 | 2.72 |

| Cond<br>°C | Current at 400 V, A |       |       |       |       |       |      |      |      |      |      |
|------------|---------------------|-------|-------|-------|-------|-------|------|------|------|------|------|
|            | -35.0               | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0 | 0.0  | 5.0  | 7.0  | 10.0 |
| 10.0       | 2.34                | 2.34  | 2.35  | 2.36  | 2.38  | 2.41  |      |      |      |      |      |
| 15.0       | 2.39                | 2.40  | 2.42  | 2.43  | 2.45  | 2.48  |      |      |      |      |      |
| 20.0       | 2.44                | 2.47  | 2.49  | 2.51  | 2.53  | 2.56  | 2.60 |      |      |      |      |
| 25.0       | 2.50                | 2.54  | 2.57  | 2.60  | 2.63  | 2.66  | 2.70 | 2.74 |      |      |      |
| 30.0       | 2.56                | 2.61  | 2.66  | 2.70  | 2.73  | 2.77  | 2.81 | 2.85 | 2.90 | 2.93 |      |
| 35.0       | 2.63                | 2.70  | 2.76  | 2.81  | 2.85  | 2.89  | 2.93 | 2.98 | 3.03 | 3.05 | 3.09 |
| 40.0       |                     | 2.79  | 2.86  | 2.93  | 2.98  | 3.03  | 3.07 | 3.12 | 3.17 | 3.19 | 3.23 |
| 45.0       |                     | 2.88  | 2.98  | 3.06  | 3.12  | 3.18  | 3.24 | 3.29 | 3.34 | 3.36 | 3.39 |
| 50.0       |                     |       | 3.10  | 3.20  | 3.28  | 3.35  | 3.42 | 3.47 | 3.53 | 3.55 | 3.58 |
| 55.0       |                     |       |       | 3.35  | 3.45  | 3.54  | 3.61 | 3.68 | 3.74 | 3.76 | 3.80 |
| 60.0       |                     |       |       |       | 3.64  | 3.74  | 3.83 | 3.91 | 3.97 | 4.00 | 4.04 |
| 65.0       |                     |       |       |       |       | 3.97  | 4.07 | 4.16 | 4.23 | 4.26 | 4.30 |
| 70.0       |                     |       |       |       |       | 4.21  | 4.33 | 4.43 | 4.52 | 4.55 | 4.60 |

50 Hz

ZH06KCU-TFD

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| Cond<br>°C | Suction Mass Flow, g/s |       |       |       |       |       |       |       |       |       |       |
|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -35.0                  | -30.0 | -25.0 | -20.0 | -15.0 | -10.0 | -5.0  | 0.0   | 5.0   | 7.0   | 10.0  |
| 10.0       | 5.95                   | 7.29  | 8.90  | 10.80 | 13.00 | 15.45 |       |       |       |       |       |
| 15.0       | 5.85                   | 7.21  | 8.84  | 10.75 | 12.95 | 15.45 |       |       |       |       |       |
| 20.0       | 5.76                   | 7.14  | 8.77  | 10.70 | 12.85 | 15.40 | 18.20 |       |       |       |       |
| 25.0       | 5.67                   | 7.06  | 8.70  | 10.60 | 12.80 | 15.30 | 18.15 | 21.30 |       |       |       |
| 30.0       | 5.59                   | 6.99  | 8.63  | 10.55 | 12.75 | 15.25 | 18.05 | 21.20 | 24.70 | 26.20 |       |
| 35.0       | 5.51                   | 6.92  | 8.56  | 10.45 | 12.65 | 15.15 | 17.95 | 21.10 | 24.60 | 26.10 | 28.50 |
| 40.0       |                        | 6.85  | 8.49  | 10.40 | 12.55 | 15.05 | 17.85 | 21.00 | 24.50 | 26.00 | 28.30 |
| 45.0       |                        | 6.79  | 8.41  | 10.30 | 12.45 | 14.95 | 17.70 | 20.80 | 24.30 | 25.80 | 28.20 |
| 50.0       |                        |       | 8.34  | 10.20 | 12.35 | 14.80 | 17.55 | 20.70 | 24.20 | 25.60 | 28.00 |
| 55.0       |                        |       |       | 10.10 | 12.25 | 14.65 | 17.40 | 20.50 | 24.00 | 25.40 | 27.80 |
| 60.0       |                        |       |       |       | 12.10 | 14.50 | 17.25 | 20.30 | 23.70 | 25.20 | 27.60 |
| 65.0       |                        |       |       |       |       | 14.35 | 17.05 | 20.10 | 23.50 | 25.00 | 27.30 |
| 70.0       |                        |       |       |       |       | 14.15 | 16.85 | 19.85 | 23.30 | 24.80 | 27.10 |

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|                                        |                         |
|----------------------------------------|-------------------------|
| Displacement @ 50 Hz, m³/h             | 8.04                    |
| Length/Width, mm                       | 253/243                 |
| Height, mm                             | 387                     |
| Net Weight, kg                         | 26.3                    |
| Gross Weight, kg                       | 28                      |
| Stub Suction, inch                     | 3/4                     |
| Stub Discharge, inch                   | 1/2                     |
| Oil Quantity, l                        | 1.45                    |
| Oil type (original charge)             | POE Hatcol 4467         |
| Oil type (approved oils)               | POE Hatcol 4467         |
| Base mounting (hole dia), mm           | 190 x 190 (19)          |
| Sound Pressure @ 1m (HT), dBA          | 61                      |
| Sound Power (HT), dBA                  | 72                      |
| Sound Conditions (HT, Temperatures:    | -7 / 50 / 3 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed)    |                         |
| PED Category                           | 2                       |
| Max. Low Side Internal Free Volume, l  | 4.2                     |
| Max. High Side Internal Free Volume, l | 0.5                     |
| Max. Internal Free Volume, l           | 4.70                    |
| High Side PS gauge, bar                | 28                      |
| Low Side PS gauge, bar                 | 17                      |
| Low Side TS Max., °C                   | 50                      |
| Low Side TS Min., °C                   | -35                     |
| High Side TS Max., °C                  | 150                     |
| High Side TS Min., °C                  | -35                     |
| Refrigerant's GWP                      | 3                       |
| Refrigerant's classification           | A3                      |

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

|                              |          |
|------------------------------|----------|
| Maximum Operating Current, A | 5.2      |
| Locked Rotor Current, A      | 32       |
| Winding Resistance, ohm      | 5.48     |
| Default Enclosure Class      | IP 54/65 |

### **ACCESSORIES INCLUDED**

|                   |          |
|-------------------|----------|
| Mounting Grommets | Standard |
|-------------------|----------|

### **ACCESSORIES OPTIONAL**

|                                  |                           |
|----------------------------------|---------------------------|
| Crankcase Heater                 | 55 W External             |
| Discharge Temperature Protection | Discharge line thermostat |

50 Hz

ZH06KCU-TFD

R290

**MOTOR OPTIONS**

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