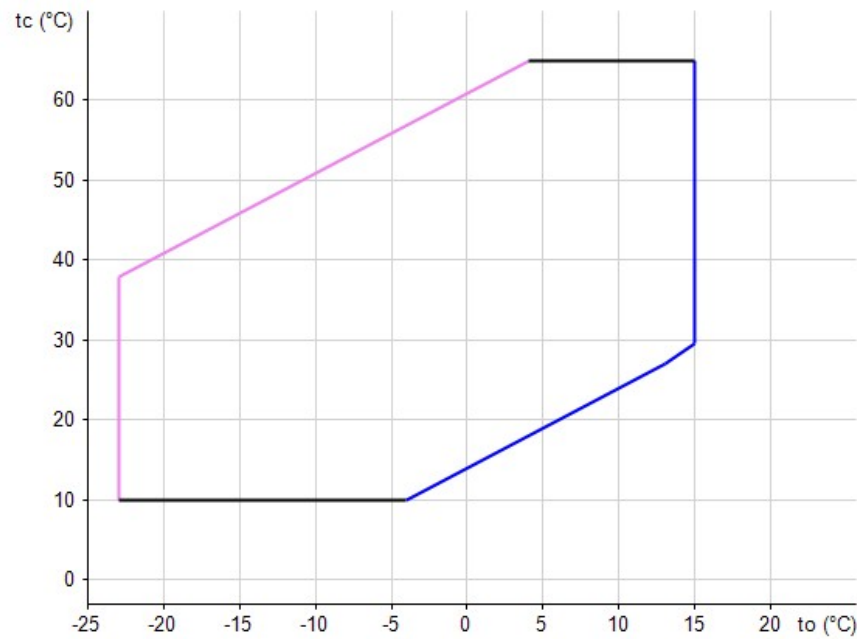


50 Hz

ZP61K5E-TFD

R410A Dew Point



Minimum Evaporating Temp. With:

10 K Suction Superheat

Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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  |
| 10.0       | 8.52                 | 10.45 | 12.75 | 15.45 |       |       |       |       |       |       |
| 15.0       | 8.12                 | 10.00 | 12.20 | 14.85 | 17.85 |       |       |       |       |       |
| 20.0       | 7.72                 | 9.55  | 11.70 | 14.20 | 17.10 | 20.50 |       |       |       |       |
| 25.0       | 7.31                 | 9.09  | 11.15 | 13.60 | 16.35 | 19.60 | 21.00 | 23.30 |       |       |
| 30.0       | 6.87                 | 8.61  | 10.60 | 12.95 | 15.60 | 18.70 | 20.00 | 22.20 | 24.10 | 26.20 |
| 35.0       | 6.40                 | 8.10  | 10.05 | 12.25 | 14.85 | 17.75 | 19.05 | 21.10 | 23.00 | 24.90 |
| 40.0       | 5.89                 | 7.55  | 9.43  | 11.55 | 14.00 | 16.80 | 18.05 | 20.00 | 21.80 | 23.60 |
| 45.0       |                      | 6.95  | 8.77  | 10.85 | 13.15 | 15.85 | 17.00 | 18.85 | 20.50 | 22.30 |
| 50.0       |                      |       | 8.05  | 10.05 | 12.25 | 14.80 | 15.90 | 17.70 | 19.30 | 21.00 |
| 55.0       |                      |       |       | 9.17  | 11.30 | 13.70 | 14.75 | 16.45 | 17.95 | 19.55 |
| 60.0       |                      |       |       |       | 10.25 | 12.55 | 13.55 | 15.15 | 16.55 | 18.10 |
| 65.0       |                      |       |       |       |       | 11.35 | 12.30 | 13.80 | 15.10 | 16.55 |

50 Hz

ZP61K5E-TFD

R410A 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 |
| 10.0       | 1.48      | 1.43  | 1.36  | 1.29 |      |      |      |      |      |      |
| 15.0       | 1.76      | 1.72  | 1.68  | 1.62 | 1.56 |      |      |      |      |      |
| 20.0       | 2.04      | 2.02  | 1.99  | 1.95 | 1.90 | 1.86 |      |      |      |      |
| 25.0       | 2.35      | 2.33  | 2.31  | 2.28 | 2.25 | 2.22 | 2.21 | 2.20 |      |      |
| 30.0       | 2.69      | 2.68  | 2.65  | 2.63 | 2.60 | 2.58 | 2.57 | 2.56 | 2.56 | 2.57 |
| 35.0       | 3.08      | 3.06  | 3.04  | 3.01 | 2.99 | 2.96 | 2.96 | 2.95 | 2.95 | 2.96 |
| 40.0       | 3.54      | 3.52  | 3.48  | 3.45 | 3.42 | 3.39 | 3.38 | 3.38 | 3.38 | 3.38 |
| 45.0       |           | 4.04  | 4.00  | 3.95 | 3.91 | 3.88 | 3.87 | 3.86 | 3.85 | 3.85 |
| 50.0       |           |       | 4.60  | 4.54 | 4.48 | 4.43 | 4.42 | 4.40 | 4.39 | 4.38 |
| 55.0       |           |       |       | 5.23 | 5.15 | 5.08 | 5.06 | 5.03 | 5.01 | 4.99 |
| 60.0       |           |       |       |      | 5.92 | 5.83 | 5.80 | 5.75 | 5.72 | 5.70 |
| 65.0       |           |       |       |      |      | 6.70 | 6.65 | 6.59 | 6.55 | 6.51 |

| 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  |
| 10.0       | 3.86                | 3.80  | 3.71  | 3.62 |      |       |       |       |       |       |
| 15.0       | 4.15                | 4.11  | 4.06  | 3.98 | 3.91 |       |       |       |       |       |
| 20.0       | 4.47                | 4.44  | 4.40  | 4.35 | 4.30 | 4.24  |       |       |       |       |
| 25.0       | 4.82                | 4.81  | 4.78  | 4.74 | 4.70 | 4.66  | 4.64  | 4.62  |       |       |
| 30.0       | 5.23                | 5.22  | 5.20  | 5.16 | 5.13 | 5.10  | 5.09  | 5.08  | 5.07  | 5.07  |
| 35.0       | 5.72                | 5.70  | 5.68  | 5.64 | 5.61 | 5.58  | 5.57  | 5.56  | 5.56  | 5.56  |
| 40.0       | 6.31                | 6.28  | 6.24  | 6.20 | 6.16 | 6.12  | 6.11  | 6.10  | 6.10  | 6.10  |
| 45.0       |                     | 6.96  | 6.90  | 6.85 | 6.79 | 6.75  | 6.73  | 6.72  | 6.71  | 6.71  |
| 50.0       |                     |       | 7.69  | 7.61 | 7.53 | 7.47  | 7.45  | 7.42  | 7.41  | 7.40  |
| 55.0       |                     |       |       | 8.50 | 8.40 | 8.31  | 8.28  | 8.24  | 8.21  | 8.19  |
| 60.0       |                     |       |       |      | 9.41 | 9.29  | 9.25  | 9.19  | 9.15  | 9.11  |
| 65.0       |                     |       |       |      |      | 10.43 | 10.37 | 10.29 | 10.23 | 10.18 |

50 Hz

ZP61K5E-TFD

R410A Dew Point

| 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   |
| 10.0       | 38.50                  | 46.70 | 56.40 | 67.70 |       |       |        |        |        |        |
| 15.0       | 38.00                  | 46.30 | 56.00 | 67.20 | 80.30 |       |        |        |        |        |
| 20.0       | 37.50                  | 45.80 | 55.60 | 66.80 | 79.70 | 94.50 |        |        |        |        |
| 25.0       | 36.90                  | 45.40 | 55.10 | 66.30 | 79.20 | 93.90 | 100.50 | 110.50 |        |        |
| 30.0       | 36.20                  | 44.80 | 54.60 | 65.80 | 78.60 | 93.20 | 99.60  | 110.00 | 119.00 | 128.50 |
| 35.0       | 35.20                  | 44.00 | 53.90 | 65.10 | 77.90 | 92.40 | 98.80  | 109.00 | 118.00 | 127.50 |
| 40.0       | 34.00                  | 43.00 | 53.00 | 64.30 | 77.10 | 91.60 | 97.90  | 108.00 | 117.00 | 126.50 |
| 45.0       |                        | 41.70 | 51.90 | 63.30 | 76.10 | 90.60 | 96.90  | 107.00 | 116.00 | 125.50 |
| 50.0       |                        |       | 50.40 | 62.00 | 74.90 | 89.30 | 95.60  | 105.50 | 114.50 | 124.00 |
| 55.0       |                        |       |       | 60.20 | 73.30 | 87.90 | 94.20  | 104.00 | 113.00 | 122.50 |
| 60.0       |                        |       |       |       | 71.30 | 86.10 | 92.50  | 102.50 | 111.50 | 121.00 |
| 65.0       |                        |       |       |       |       | 83.90 | 90.50  | 101.00 | 110.00 | 119.50 |

## COMPRESSOR MECHANICAL AND PHYSICAL DATA

|                                     |                         |
|-------------------------------------|-------------------------|
| Displacement @ 50 Hz, m³/h          | 9.95                    |
| Length/Width, mm                    | 246/246                 |
| Height, mm                          | 445                     |
| Net Weight, kg                      | 35                      |
| Stub Suction, inch                  | 7/8                     |
| Stub Discharge, inch                | 1/2                     |
| Oil Quantity, l                     | 1.24                    |
| Oil type (original charge)          | POE RL32-3MAF           |
| Oil type (approved oils)            | POE RL32-3MAF           |
| Base mounting (hole dia), mm        | 190 x 190 (19)          |
| Sound Pressure @ 1m (HT), dBA       | 57                      |
| Sound Power (HT), dBA               | 68                      |
| Sound Conditions (HT, Temperatures: | 7 / 54 / 18 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) |                         |
| Max. Internal Free Volume, l        | 3.30                    |
| High Side PS gauge, bar             | 45                      |
| Low Side PS gauge, bar              | 29.5                    |
| Low Side TS Min., °C                | -35                     |
| Refrigerant's GWP                   | 2088                    |
| Refrigerant's classification        | A1                      |

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

|                              |                |
|------------------------------|----------------|
| Maximum Operating Current, A | 11             |
| Locked Rotor Current, A      | 67.1           |
| Winding Resistance, ohm      | 2.52           |
| Default Enclosure Class      | IP 21 (IEC 34) |

50 Hz

ZP61K5E-TFD

R410A Dew Point

## ACCESSORIES INCLUDED

Mounting Grommets

Rubber Grommet For Single

## ACCESSORIES OPTIONAL

Enclosure Class

IP 54

## MOTOR OPTIONS

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