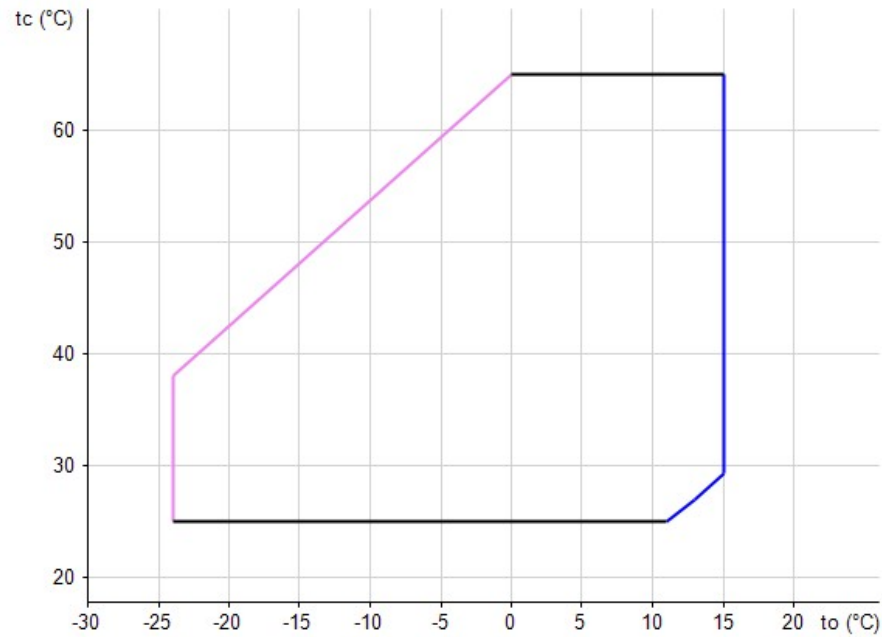


60 Hz

ZP385KCE-TWD

R410A Dew Point



Minimum Evaporating Temp. With:

10 K Suction Superheat

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   |
| 25.0       | 51.60                | 63.50 | 77.70 | 94.10 | 113.00 | 134.50 | 144.00 | 159.00 |        |        |
| 30.0       | 48.80                | 60.30 | 73.90 | 89.80 | 108.00 | 128.50 | 137.50 | 151.50 | 164.00 | 177.50 |
| 35.0       | 45.70                | 56.90 | 70.00 | 85.10 | 102.50 | 122.00 | 130.50 | 144.00 | 156.00 | 168.50 |
| 40.0       | 42.40                | 53.20 | 65.70 | 80.20 | 96.60  | 115.00 | 123.00 | 136.00 | 147.00 | 159.00 |
| 45.0       |                      | 49.20 | 61.20 | 74.90 | 90.40  | 108.00 | 115.50 | 127.50 | 138.00 | 149.50 |
| 50.0       |                      |       | 56.30 | 69.20 | 83.90  | 100.50 | 107.50 | 118.50 | 128.50 | 139.00 |
| 55.0       |                      |       |       | 63.10 | 76.80  | 92.10  | 98.70  | 109.00 | 118.50 | 128.00 |
| 60.0       |                      |       |       |       | 69.10  | 83.20  | 89.30  | 99.00  | 107.50 | 116.50 |
| 65.0       |                      |       |       |       | 60.50  | 73.30  | 78.80  | 87.50  | 95.20  | 103.00 |

60 Hz

ZP385KCE-TWD

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  |
| 25.0       | 17.85     | 18.25 | 18.65 | 19.10 | 19.65 | 20.40 | 20.70 | 21.30 |       |       |
| 30.0       | 19.80     | 20.10 | 20.50 | 20.90 | 21.40 | 22.00 | 22.30 | 22.80 | 23.30 | 23.80 |
| 35.0       | 22.00     | 22.30 | 22.60 | 22.90 | 23.30 | 23.90 | 24.10 | 24.60 | 25.00 | 25.50 |
| 40.0       | 24.40     | 24.70 | 25.00 | 25.20 | 25.60 | 26.10 | 26.30 | 26.70 | 27.10 | 27.60 |
| 45.0       |           | 27.40 | 27.60 | 27.90 | 28.20 | 28.60 | 28.90 | 29.20 | 29.60 | 30.00 |
| 50.0       |           |       | 30.60 | 30.90 | 31.20 | 31.60 | 31.80 | 32.10 | 32.40 | 32.80 |
| 55.0       |           |       |       | 34.20 | 34.50 | 34.90 | 35.00 | 35.40 | 35.70 | 36.00 |
| 60.0       |           |       |       |       | 38.20 | 38.60 | 38.70 | 39.00 | 39.30 | 39.70 |
| 65.0       |           |       |       |       | 42.30 | 42.70 | 42.90 | 43.20 | 43.40 | 43.80 |

| Cond<br>°C | Current at 460 V, A |       |       |       |       |       |       |       |       |       |
|------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | -20.0               | -15.0 | -10.0 | -5.0  | 0.0   | 5.0   | 7.0   | 10.0  | 12.5  | 15.0  |
| 25.0       | 29.16               | 29.57 | 30.01 | 30.52 | 31.17 | 32.01 | 32.42 | 33.10 |       |       |
| 30.0       | 31.40               | 31.78 | 32.17 | 32.63 | 33.20 | 33.96 | 34.32 | 34.95 | 35.55 | 36.23 |
| 35.0       | 33.94               | 34.30 | 34.65 | 35.06 | 35.57 | 36.24 | 36.57 | 37.14 | 37.69 | 38.32 |
| 40.0       | 36.83               | 37.18 | 37.51 | 37.88 | 38.33 | 38.94 | 39.23 | 39.75 | 40.26 | 40.83 |
| 45.0       |                     | 40.50 | 40.81 | 41.14 | 41.55 | 42.10 | 42.37 | 42.84 | 43.30 | 43.83 |
| 50.0       |                     |       | 44.62 | 44.93 | 45.30 | 45.80 | 46.04 | 46.47 | 46.90 | 47.39 |
| 55.0       |                     |       |       | 49.29 | 49.63 | 50.09 | 50.31 | 50.71 | 51.10 | 51.55 |
| 60.0       |                     |       |       |       | 54.62 | 55.04 | 55.25 | 55.62 | 55.98 | 56.40 |
| 65.0       |                     |       |       |       | 60.33 | 60.73 | 60.92 | 61.26 | 61.60 | 62.00 |

| 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   |
| 25.0       | 281.00                 | 342.00 | 413.00 | 495.00 | 589.00 | 694.00 | 740.00 | 812.00 |        |        |
| 30.0       | 279.00                 | 340.00 | 412.00 | 494.00 | 588.00 | 693.00 | 738.00 | 810.00 | 874.00 | 940.00 |
| 35.0       | 275.00                 | 337.00 | 410.00 | 492.00 | 586.00 | 690.00 | 735.00 | 807.00 | 870.00 | 936.00 |
| 40.0       | 269.00                 | 333.00 | 406.00 | 489.00 | 583.00 | 687.00 | 732.00 | 803.00 | 865.00 | 931.00 |
| 45.0       |                        | 327.00 | 402.00 | 485.00 | 578.00 | 682.00 | 727.00 | 797.00 | 859.00 | 925.00 |
| 50.0       |                        |        | 395.00 | 479.00 | 572.00 | 676.00 | 721.00 | 791.00 | 853.00 | 917.00 |
| 55.0       |                        |        |        | 471.00 | 565.00 | 669.00 | 713.00 | 783.00 | 845.00 | 909.00 |
| 60.0       |                        |        |        |        | 556.00 | 661.00 | 705.00 | 775.00 | 836.00 | 900.00 |
| 65.0       |                        |        |        |        | 547.00 | 652.00 | 696.00 | 766.00 | 828.00 | 892.00 |

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|                                       |                         |
|---------------------------------------|-------------------------|
| Displacement @ 60 Hz, m³/h            | 73.4                    |
| Length/Width, mm                      | 447/427                 |
| Height, mm                            | 724                     |
| Net Weight, kg                        | 176                     |
| Stub Suction, inch                    | 1 5/8                   |
| Stub Discharge, inch                  | 1 3/8                   |
| Oil Quantity, l                       | 6.3                     |
| Oil type (original charge)            | POE RL32-3MAF           |
| Oil type (approved oils)              | POE RL32-3MAF           |
| Base mounting (hole dia), mm          | 266.7 x 266.7 (22.6)    |
| Sound Pressure @ 1m (HT), dBA         | 78                      |
| Sound Power (HT), dBA                 | 89                      |
| Sound Conditions (HT, Temperatures:   | 7 / 54 / 18 °C at 60 Hz |
| Evap./Cond./Suction at freq./speed)   |                         |
| PED Category                          | 2                       |
| Max. Low Side Internal Free Volume, l | 28.7                    |
| Max. Internal Free Volume, l          | 31.6                    |
| High Side PS gauge, bar               | 45                      |
| Low Side PS gauge, bar                | 29.5                    |
| Low Side TS Max., °C                  | 50                      |
| Low Side TS Min., °C                  | -35                     |
| Refrigerant's GWP                     | 2088                    |
| Refrigerant's classification          | A1                      |

**COMPRESSOR ELECTRICAL DATA (460 V / 3~ / 60 Hz)**

|                              |                |
|------------------------------|----------------|
| Maximum Operating Current, A | 65.4           |
| Locked Rotor Current, A      | 310            |
| Winding Resistance, ohm      | 0.36           |
| Default Enclosure Class      | IP 54 (IEC 34) |

**ACCESSORIES INCLUDED**

|                                  |                                |
|----------------------------------|--------------------------------|
| Discharge Temperature Protection | Internal Thermistor            |
| Discharge Temperature Protection | PTC in Scroll Discharge Port   |
| Enclosure Class                  | IP 54                          |
| Mounting Grommets                | Standard                       |
| Mounting Grommets                | Rubber Grommet For Single      |
| Oil Charge                       |                                |
| Oil Service Valve                | Schraeder Valve                |
| Check Valve                      | Discharge Low Leak Check Valve |

60 Hz

ZP385KCE-TWD

R410A Dew Point

**ACCESSORIES OPTIONAL**

|                    |                              |
|--------------------|------------------------------|
| Crankcase Heater   | 102 W External               |
| Mounting Grommets  | Rubber Grommet For Parallel  |
| Adapter Kit        | Operation                    |
| Oil Control System | R1"3/4 - B1"3/8 For TPTL for |
| ALCO Trax-Oil OM4  | Parallel Operation           |

**MOTOR OPTIONS**

| <b>Motor Code</b> | <b>Power Supply</b>    | <b>Nominal Voltage, V</b> | <b>Start Connection</b> | <b>DOL Connection</b> | <b>Amps Factor</b> |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| TWD               | 460 V / 3~ / 60 Hz     | 460                       |                         | Y                     | 1.00               |
| TWD               | 380-420 V / 3~ / 50 Hz | 400                       |                         | Y                     | 0.96               |