



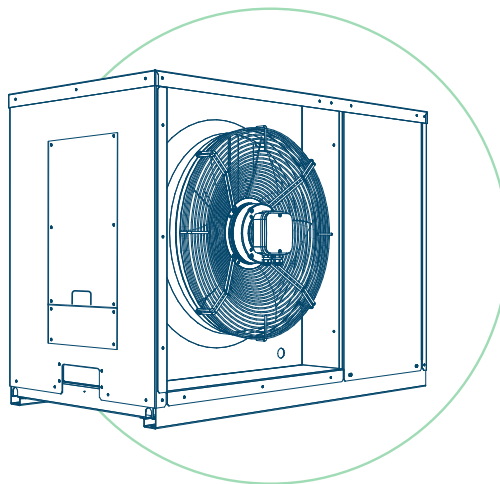
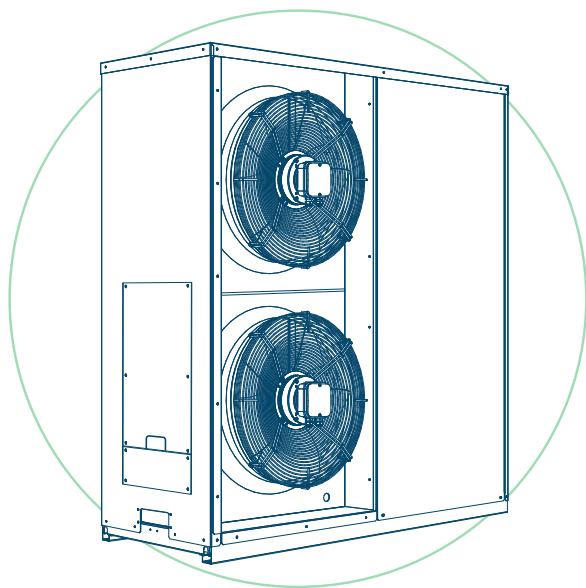
SUSTAINABLE COLD SOLUTIONS

# TRANSCRITICAL CO<sub>2</sub> CONDENSING UNITS



We know the art of achieving  
*a perfect temperature*

**BEIJER REF**



## Product Description

Condensing unit for transcritical CO<sub>2</sub> applications equipped with TOSHIBA BLDC compressor(s) with inverter, integrated gas cooler and EC fans. This is a high-efficiency solution designed to ensure a small footprint and low noise.

### MAIN ADVANTAGES



CO<sub>2</sub> REFRIGERANT



EFFICIENT SOLUTION



LOW NOISE



SMALL FOOTPRINT



EASY START-UP



DC BRUSHLESS ROTARY COMPRESSOR



GAS COOLER EQUIPPED

## Cooling Capacity

### Transcritical Condensing Units DX

UMT T MTDX



UMT T BTDX



# Standard Accessories

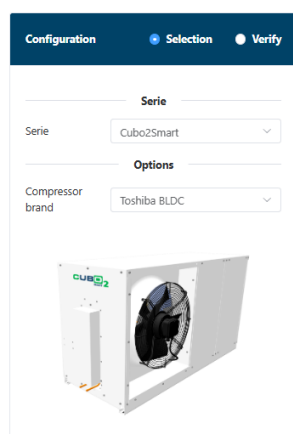
- Toshiba BLDC compressors
- Carel controller
- Inverter modulation for capacity control 25-100%
- Integrated gas cooler with EC fan
- Design pressure 130 bar (high pressure side) 80 bar (liquid line) 80 bar (suction line)
- Liquid receiver 12 liters
- K65 connections

# Accessories on Request

- Low noise frame (day operation 33 dB(A) @10m; night operation 30 dB(A))
- Oil management (oil separator + reservoir, oil level control, oil return solenoid valve)
- Winter kit (suggested for ambient temperature <-20°C)
- Epoxy or Electrofin gas cooler corrosion coil protection.
- Adiabatic Kit water spray, including controller

## Software Calculation Tool

Select your unit and check its CO<sub>2</sub> charge



**Input data**

**Selection**

Required Capacity: kW 0,00

Tolerance: % 10,00

**Input**

Evaporation temperature: °C -25,00

Ambient temperature: °C 35,00

**charged Calculation** Cubo2Smart UMTTN45BDX

Ricevitore di liquido da 8 litri (PED II)

| LIQUID LINE                    |      | EVAPORATORS |                 |
|--------------------------------|------|-------------|-----------------|
|                                | m    | kg          |                 |
| Liquid Line 3/8" (120 bar K65) | 0,00 | 0,0000      | Evap 1          |
| Liquid Line 1/2" (120 bar K65) | 0,00 | 0,0000      | Evap 2          |
| Liquid Line 1/2" (80 bar K65)  | 0,00 | 0,0000      | Evap 3          |
| Sub Total Liquid               |      | 0,0000      | Sub Total Evaps |
|                                |      |             | 0,0000          |

| SUCTION LINE                    |      | TOTALS |                                                                                     |
|---------------------------------|------|--------|-------------------------------------------------------------------------------------|
|                                 | m    | kg     |                                                                                     |
| Suction Line 3/8" (120 bar K65) | 0,00 | 0,0000 | Total Charge (minimum charge is 4kg)                                                |
| Suction Line 1/2" (80 bar K65)  | 0,00 | 0,0000 | kg 3,7000                                                                           |
| Suction Line 1/2" (120 bar K65) | 0,00 | 0,0000 | ok!                                                                                 |
| Suction Line 5/8" (80 bar K65)  | 0,00 | 0,0000 | Pumpdown from EEV                                                                   |
| Suction Line 5/8" (120 bar K65) | 0,00 | 0,0000 | MUST BE ≤ 9.8kg for 12L and ≤ 7.2kg for 8L                                          |
| Sub Total Suction               |      | 0,0000 | kg 2,4000                                                                           |
|                                 |      |        | ok!                                                                                 |
|                                 |      |        | Pumpdown from CU                                                                    |
|                                 |      |        | MUST BE ≤ 9.8kg for 12L and ≤ 7.2kg for 8L - If not fit ball valves on branch lines |
|                                 |      |        | kg 2,4000                                                                           |
|                                 |      |        | ok!                                                                                 |
|                                 |      |        | Additional Oil to Charge                                                            |
|                                 |      |        | (PAG VG100)                                                                         |
|                                 |      |        | I 0,25                                                                              |
|                                 |      |        | Oil approved: RENISO PAG100, DAPHNE PZ100S                                          |

| STANDING CHARGE |        |
|-----------------|--------|
|                 | kg     |
| Receiver        | 2,4000 |
| Gas Cooler/ PHE | 1,3000 |
| Sub Total CUBO  | 3,7000 |

AT THE FOLLOWING LINK YOU CAN CHECK THE UNIT CHARGE.

<https://cubo2calculation.scmfrigo.com/#/home>

| UMT T N45 BTDX                | Ambient Temperature [°C] |                           | Evaporation Temperature[°C] |      |                           |              |      |                        |              |      |      |              |      |      |
|-------------------------------|--------------------------|---------------------------|-----------------------------|------|---------------------------|--------------|------|------------------------|--------------|------|------|--------------|------|------|
|                               |                          |                           | -35                         |      |                           | -30          |      |                        | -25          |      |      | -20          |      |      |
|                               |                          |                           | Capacity [W]                |      | COP                       | Capacity [W] |      | COP                    | Capacity [W] |      | COP  | Capacity [W] |      | COP  |
|                               |                          |                           | min                         | max  |                           | min          | max  |                        | min          | max  |      | min          | max  |      |
|                               | 40                       |                           | 694                         | 1915 | 1,19                      | 836          | 2299 | 1,38                   | 975          | 2668 | 1,55 | 1148         | 3110 | 1,77 |
|                               | 38                       |                           | 709                         | 1933 | 1,22                      | 857          | 2318 | 1,42                   | 1002         | 2687 | 1,60 | 1181         | 3129 | 1,83 |
| 32                            |                          | 761                       | 2004                        | 1,38 | 926                       | 2393         | 1,60 | 1090                   | 2764         | 1,81 | 1288 | 3204         | 2,07 |      |
| 25                            |                          | 815                       | 2084                        | 1,57 | 995                       | 2477         | 1,83 | 1174                   | 2850         | 2,07 | 1389 | 3289         | 2,38 |      |
| 15                            |                          | 867                       | 2163                        | 1,81 | 1058                      | 2561         | 2,10 | 1250                   | 2935         | 2,39 | 1479 | 3373         | 2,76 |      |
| 5                             |                          | 948                       | 2277                        | 2,24 | 1155                      | 2684         | 2,63 | 1368                   | 3061         | 3,02 | 1615 | 3497         | 3,53 |      |
| Liquid receiver volume        |                          | 8 liters                  |                             |      | MEPS <sup>(c)</sup>       |              |      | 2,39                   |              |      |      |              |      |      |
| Weight                        |                          | 176 kg                    |                             |      | Annual Energy Consumption |              |      | 8767 kWh/year          |              |      |      |              |      |      |
| Connections                   |                          | Liquid / suction 1/2"     |                             |      | Power Supply              |              |      | 230 V / 1+N+PE / 50 Hz |              |      |      |              |      |      |
| Sound pressure <sup>(b)</sup> |                          | day / night 40 / 37 dB(A) |                             |      |                           |              |      |                        |              |      |      |              |      |      |

| UMT T N67 BTDX                | Ambient Temperature [°C] |                           | Evaporation Temperature[°C] |      |      |              |                        |      |              |      |      |              |      |      |
|-------------------------------|--------------------------|---------------------------|-----------------------------|------|------|--------------|------------------------|------|--------------|------|------|--------------|------|------|
|                               |                          |                           | -35                         |      |      | -30          |                        |      | -25          |      |      | -20          |      |      |
|                               |                          |                           | Capacity [W]                |      | COP  | Capacity [W] |                        | COP  | Capacity [W] |      | COP  | Capacity [W] |      | COP  |
|                               |                          |                           | min                         | max  |      | min          | max                    |      | min          | max  |      | min          | max  |      |
|                               | 40                       |                           | 1125                        | 3058 | 1,28 | 1366         | 3645                   | 1,47 | 1601         | 4192 | 1,63 | 1871         | 4807 | 1,82 |
|                               | 38                       |                           | 1140                        | 3074 | 1,32 | 1382         | 3668                   | 1,51 | 1617         | 4221 | 1,69 | 1886         | 4843 | 1,89 |
| 32                            |                          | 1196                      | 3146                        | 1,47 | 1440 | 3759         | 1,70                   | 1675 | 4333         | 1,91 | 1943 | 4976         | 2,15 |      |
| 25                            |                          | 1253                      | 3234                        | 1,68 | 1501 | 3865         | 1,95                   | 1738 | 4457         | 2,20 | 2005 | 5117         | 2,49 |      |
| 15                            |                          | 1308                      | 3326                        | 1,93 | 1560 | 3971         | 2,25                   | 1799 | 4578         | 2,55 | 2067 | 5254         | 2,91 |      |
| 5                             |                          | 1385                      | 3458                        | 2,41 | 1648 | 4126         | 2,85                   | 1895 | 4755         | 3,27 | 2166 | 5455         | 3,79 |      |
| Liquid receiver volume        |                          | 8 liters                  | MEPS <sup>(c)</sup>         |      |      |              | 2,39                   |      |              |      |      |              |      |      |
| Weight                        |                          | 176 kg                    | Annual Energy Consumption   |      |      |              | 13282 kWh/year         |      |              |      |      |              |      |      |
| Connections                   |                          | Liquid / suction 1/2"     | Power Supply                |      |      |              | 230 V / 1+N+PE / 50 Hz |      |              |      |      |              |      |      |
| Sound pressure <sup>(b)</sup> |                          | day / night 40 / 37 dB(A) |                             |      |      |              |                        |      |              |      |      |              |      |      |

| UMT T 067 BTDX                | Ambient Temperature [°C]  |                           | Evaporation Temperature[°C] |      |      |                        |      |      |              |      |      |              |      |     |
|-------------------------------|---------------------------|---------------------------|-----------------------------|------|------|------------------------|------|------|--------------|------|------|--------------|------|-----|
|                               |                           |                           | -35                         |      |      | -30                    |      |      | -25          |      |      | -20          |      |     |
|                               |                           |                           | Capacity [W]                |      | COP  | Capacity [W]           |      | COP  | Capacity [W] |      | COP  | Capacity [W] |      | COP |
|                               |                           |                           | min                         | max  |      | min                    | max  |      | min          | max  |      | min          | max  |     |
|                               | 40                        | 950                       | 4380                        | 0,88 | 1190 | 5320                   | 1,07 | 1360 | 6030         | 1,15 | 1660 | 7210         | 1,41 |     |
| 38                            | 950                       | 4380                      | 0,91                        | 1190 | 5320 | 1,14                   | 1360 | 6030 | 1,18         | 1660 | 7210 | 1,50         |      |     |
| 32                            | 950                       | 4380                      | 1,09                        | 1190 | 5320 | 1,20                   | 1360 | 6030 | 1,37         | 1660 | 7210 | 1,57         |      |     |
| 25                            | 950                       | 4380                      | 1,22                        | 1190 | 5320 | 1,35                   | 1360 | 6030 | 1,54         | 1660 | 7210 | 1,69         |      |     |
| 15                            | 950                       | 4380                      | 1,70                        | 1190 | 5320 | 1,90                   | 1360 | 6030 | 2,15         | 1660 | 7210 | 2,37         |      |     |
| 5                             | 950                       | 4380                      | 1,97                        | 1190 | 5320 | 2,23                   | 1360 | 6030 | 2,41         | 1660 | 7210 | 2,68         |      |     |
| Liquid receiver volume        | 12 liters                 | MEPS <sup>(c)</sup>       |                             |      |      | 2,39                   |      |      |              |      |      |              |      |     |
| Weight                        | 195 kg                    | Annual Energy Consumption |                             |      |      | 19367 kWh/year         |      |      |              |      |      |              |      |     |
| Connections                   | Liquid / suction 1/2"     | Power Supply              |                             |      |      | 400 V / 3+N+PE / 50 Hz |      |      |              |      |      |              |      |     |
| Sound pressure <sup>(b)</sup> | day / night 41 / 38 dB(A) |                           |                             |      |      |                        |      |      |              |      |      |              |      |     |

| UMT T 100 BTDX                | Ambient Temperature [°C]  |                           | Evaporation Temperature[°C] |      |      |                        |      |      |              |      |       |              |      |     |
|-------------------------------|---------------------------|---------------------------|-----------------------------|------|------|------------------------|------|------|--------------|------|-------|--------------|------|-----|
|                               |                           |                           | -35                         |      |      | -30                    |      |      | -25          |      |       | -20          |      |     |
|                               |                           |                           | Capacity [W]                |      | COP  | Capacity [W]           |      | COP  | Capacity [W] |      | COP   | Capacity [W] |      | COP |
|                               |                           |                           | min                         | max  |      | min                    | max  |      | min          | max  |       | min          | max  |     |
|                               | 40                        | 1520                      | 6540                        | 0,91 | 1890 | 7900                   | 1,09 | 2140 | 8940         | 1,15 | 2600  | 10650        | 1,41 |     |
| 38                            | 1520                      | 6540                      | 0,96                        | 1890 | 7900 | 1,16                   | 2140 | 8940 | 1,18         | 2600 | 10650 | 1,51         |      |     |
| 32                            | 1520                      | 6540                      | 1,18                        | 1890 | 7900 | 1,27                   | 2140 | 8940 | 1,43         | 2600 | 10650 | 1,58         |      |     |
| 25                            | 1520                      | 6540                      | 1,33                        | 1890 | 7900 | 1,44                   | 2140 | 8940 | 1,62         | 2600 | 10650 | 1,74         |      |     |
| 15                            | 1520                      | 6540                      | 1,93                        | 1890 | 7900 | 2,11                   | 2140 | 8940 | 2,35         | 2600 | 10650 | 2,54         |      |     |
| 5                             | 1520                      | 6540                      | 2,27                        | 1890 | 7900 | 2,54                   | 2140 | 8940 | 2,69         | 2600 | 10650 | 2,93         |      |     |
| Liquid receiver volume        | 12 liters                 | MEPS <sup>(c)</sup>       |                             |      |      | 2,39                   |      |      |              |      |       |              |      |     |
| Weight                        | 195 kg                    | Annual Energy Consumption |                             |      |      | 28623 kWh/year         |      |      |              |      |       |              |      |     |
| Connections                   | Liquid / suction 5/8"     | Power Supply              |                             |      |      | 400 V / 3+N+PE / 50 Hz |      |      |              |      |       |              |      |     |
| Sound pressure <sup>(b)</sup> | day / night 42 / 39 dB(A) |                           |                             |      |      |                        |      |      |              |      |       |              |      |     |

## NOTES

<sup>(a)</sup> Interstage SST variable from -5 °C to 0°C according to operating conditions. Inverter modulation from 25 - 100%, corresponding to 1500-6000 rpm

<sup>(b)</sup> based on free field area weed semi-spherical sound emission in 10m distance; tolerance ± 2 dB(A)

<sup>(c)</sup> Minimum Energy Performance Standards, calculated according to Ecodesign Directive EN 2009/125/EC

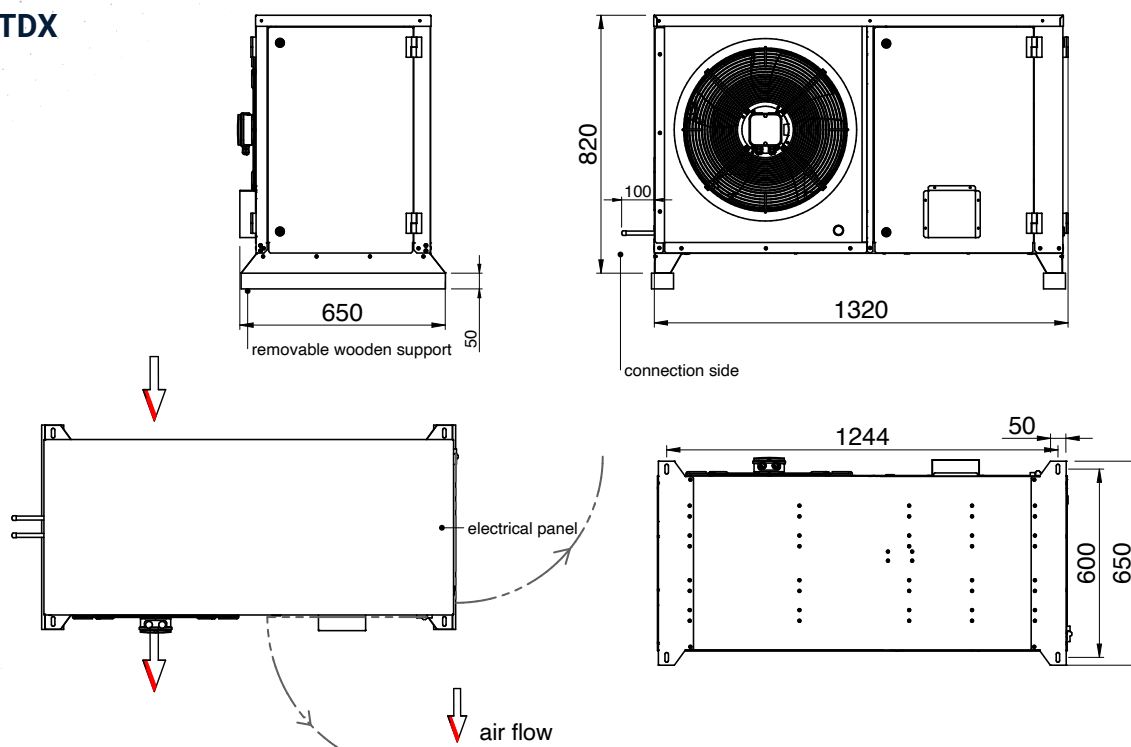
| Evaporation Temperature[°C] |                               |                           |       |      |              |       |      |                           |       |      |              |                        |      |              |       |      |
|-----------------------------|-------------------------------|---------------------------|-------|------|--------------|-------|------|---------------------------|-------|------|--------------|------------------------|------|--------------|-------|------|
| UMT T 030 MTDX              | Ambient Temperature [°C]      | -15                       |       | COP  | -10          |       | COP  | -5                        |       | COP  | 0            |                        | COP  | 5            |       | COP  |
|                             |                               | Capacity [W]              |       |      | Capacity [W] |       |      | Capacity [W]              |       |      | Capacity [W] |                        |      | Capacity [W] |       |      |
|                             |                               | min                       | max   | min  | max          | min   | max  | min                       | max   | min  | max          | min                    | max  |              |       |      |
|                             | 40                            | 429                       | 2140  | 1,38 | 523          | 2507  | 1,58 | 575                       | 2759  | 1,59 | 674          | 3143                   | 1,79 | 787          | 3541  | 2,04 |
|                             | 38                            | 440                       | 2165  | 1,44 | 526          | 2514  | 1,59 | 622                       | 2889  | 1,80 | 727          | 3283                   | 2,04 | 850          | 3704  | 2,31 |
|                             | 32                            | 455                       | 2181  | 1,54 | 551          | 2548  | 1,76 | 653                       | 2939  | 2,02 | 768          | 3362                   | 2,32 | 905          | 3826  | 2,68 |
|                             | 25                            | 506                       | 2350  | 1,81 | 613          | 2752  | 2,09 | 728                       | 3197  | 2,43 | 852          | 3678                   | 2,83 | 988          | 4188  | 3,33 |
|                             | 15                            | 682                       | 3033  | 3,16 | 816          | 3577  | 3,76 | 971                       | 4185  | 4,56 | 1153         | 4859                   | 5,64 | 1364         | 5598  | 7,18 |
|                             | 5                             | 814                       | 3564  | 4,63 | 973          | 4194  | 5,70 | 1161                      | 4899  | 7,20 | 1270         | 5290                   | 7,25 | 1364         | 5598  | 7,18 |
|                             | Liquid receiver volume        | 8 liters                  |       |      |              |       |      | MEPS <sup>(c)</sup>       |       |      |              | 3,41                   |      |              |       |      |
|                             | Weight                        | 165 kg                    |       |      |              |       |      | Annual Energy Consumption |       |      |              | 4590 kWh/year          |      |              |       |      |
|                             | Connections                   | Liquid / suction 1/2"     |       |      |              |       |      | Power Supply              |       |      |              | 230 V / 1+N+PE / 50 Hz |      |              |       |      |
|                             | Sound pressure <sup>(b)</sup> | day / night 40 / 37 dB(A) |       |      |              |       |      |                           |       |      |              |                        |      |              |       |      |
| Evaporation Temperature[°C] |                               |                           |       |      |              |       |      |                           |       |      |              |                        |      |              |       |      |
| UMT T 045 MTDX              | Ambient Temperature [°C]      | -15                       |       | COP  | -10          |       | COP  | -5                        |       | COP  | 0            |                        | COP  | 5            |       | COP  |
|                             |                               | Capacity [W]              |       |      | Capacity [W] |       |      | Capacity [W]              |       |      | Capacity [W] |                        |      | Capacity [W] |       |      |
|                             |                               | min                       | max   | min  | max          | min   | max  | min                       | max   | min  | max          | min                    | max  |              |       |      |
|                             | 40                            | 648                       | 3233  | 1,38 | 789          | 3785  | 1,58 | 868                       | 4165  | 1,59 | 1018         | 4746                   | 1,79 | 1188         | 5346  | 2,01 |
|                             | 38                            | 665                       | 3270  | 1,46 | 794          | 3796  | 1,59 | 939                       | 4362  | 1,80 | 1098         | 4957                   | 2,04 | 1283         | 5593  | 2,31 |
|                             | 32                            | 686                       | 3293  | 1,54 | 832          | 3847  | 1,76 | 986                       | 4437  | 2,02 | 1160         | 5077                   | 2,32 | 1366         | 5778  | 2,68 |
|                             | 25                            | 755                       | 3541  | 1,81 | 915          | 4142  | 2,09 | 1085                      | 4809  | 2,43 | 1270         | 5529                   | 2,83 | 1474         | 6293  | 3,33 |
|                             | 15                            | 1021                      | 4571  | 3,14 | 1221         | 5384  | 3,76 | 1452                      | 6295  | 5,64 | 1722         | 7305                   | 5,64 | 2039         | 8412  | 7,17 |
|                             | 5                             | 1220                      | 5370  | 4,64 | 1457         | 6314  | 5,71 | 1737                      | 7369  | 7,25 | 1899         | 7953                   | 7,25 | 2039         | 8412  | 7,17 |
|                             | Liquid receiver volume        | 8 liters                  |       |      |              |       |      | MEPS <sup>(c)</sup>       |       |      |              | 3,41                   |      |              |       |      |
|                             | Weight                        | 165 kg                    |       |      |              |       |      | Annual Energy Consumption |       |      |              | 4590 kWh/year          |      |              |       |      |
|                             | Connections                   | Liquid / suction 1/2"     |       |      |              |       |      | Power Supply              |       |      |              | 230 V / 1+N+PE / 50 Hz |      |              |       |      |
|                             | Sound pressure <sup>(b)</sup> | day / night 40 / 37 dB(A) |       |      |              |       |      |                           |       |      |              |                        |      |              |       |      |
| Evaporation Temperature[°C] |                               |                           |       |      |              |       |      |                           |       |      |              |                        |      |              |       |      |
| UMT T 067 MTDX              | Ambient Temperature [°C]      | -15                       |       | COP  | -10          |       | COP  | -5                        |       | COP  | 0            |                        | COP  | 5            |       | COP  |
|                             |                               | Capacity [W]              |       |      | Capacity [W] |       |      | Capacity [W]              |       |      | Capacity [W] |                        |      | Capacity [W] |       |      |
|                             |                               | min                       | max   | min  | max          | min   | max  | min                       | max   | min  | max          | min                    | max  |              |       |      |
|                             | 40                            | 1038                      | 4753  | 1,40 | 930          | 5489  | 1,57 | 1459                      | 6296  | 1,75 | 1380         | 7159                   | 1,96 | 1600         | 6790  | 2,18 |
|                             | 38                            | 1061                      | 4755  | 1,45 | 955          | 5504  | 1,63 | 1485                      | 6325  | 1,83 | 1414         | 6856                   | 2,05 | 1681         | 7820  | 2,29 |
|                             | 32                            | 1094                      | 4722  | 1,57 | 1086         | 5508  | 1,79 | 1320                      | 6385  | 2,04 | 1580         | 7328                   | 2,31 | 1866         | 8383  | 2,51 |
|                             | 25                            | 1001                      | 4904  | 1,69 | 1221         | 5790  | 1,99 | 1470                      | 6764  | 2,34 | 1748         | 7820                   | 2,76 | 2053         | 8951  | 3,34 |
|                             | 15                            | 1479                      | 6466  | 3,02 | 1779         | 7638  | 3,63 | 2121                      | 8969  | 4,40 | 2509         | 10470                  | 4,25 | 2945         | 12149 | 6,88 |
|                             | 5                             | 1825                      | 7592  | 4,44 | 2175         | 8943  | 5,40 | 2356                      | 10491 | 6,68 | 2777         | 11411                  | 6,81 | 2945         | 12149 | 6,88 |
|                             | Liquid receiver volume        | 12 liters                 |       |      |              |       |      | MEPS <sup>(c)</sup>       |       |      |              | 3,28                   |      |              |       |      |
|                             | Weight                        | 165 kg                    |       |      |              |       |      | Annual Energy Consumption |       |      |              | 10324 kWh/year         |      |              |       |      |
|                             | Connections                   | Liquid / suction 1/2"     |       |      |              |       |      | Power Supply              |       |      |              | 230 V / 1+N+PE / 50 Hz |      |              |       |      |
|                             | Sound pressure <sup>(b)</sup> | day / night 41 / 38 dB(A) |       |      |              |       |      |                           |       |      |              |                        |      |              |       |      |
| Evaporation Temperature[°C] |                               |                           |       |      |              |       |      |                           |       |      |              |                        |      |              |       |      |
| UMT T 100 MTDX              | Ambient Temperature [°C]      | -15                       |       | COP  | -10          |       | COP  | -5                        |       | COP  | 0            |                        | COP  | 5            |       | COP  |
|                             |                               | Capacity [W]              |       |      | Capacity [W] |       |      | Capacity [W]              |       |      | Capacity [W] |                        |      | Capacity [W] |       |      |
|                             |                               | min                       | max   | min  | max          | min   | max  | min                       | max   | min  | max          | min                    | max  |              |       |      |
|                             | 40                            | 1549                      | 7904  | 1,56 | 1854         | 8193  | 1,57 | 2028                      | 9113  | 1,57 | 2365         | 10366                  | 1,75 | 2719         | 11672 | 1,94 |
|                             | 38                            | 1583                      | 7098  | 1,45 | 1864         | 8202  | 1,58 | 2188                      | 9411  | 1,77 | 2534         | 10704                  | 1,98 | 2890         | 12034 | 2,18 |
|                             | 32                            | 1550                      | 7047  | 1,53 | 1750         | 8325  | 1,73 | 2273                      | 9491  | 1,97 | 2644         | 10866                  | 2,25 | 3048         | 12314 | 2,52 |
|                             | 25                            | 1597                      | 7503  | 1,76 | 1929         | 8812  | 2,04 | 2324                      | 10232 | 2,35 | 2744         | 11750                  | 2,71 | 3182         | 13355 | 3,12 |
|                             | 15                            | 2252                      | 9791  | 3,04 | 2725         | 11455 | 3,60 | 3250                      | 13414 | 4,29 | 3824         | 15611                  | 5,16 | 4443         | 18053 | 6,26 |
|                             | 5                             | 2749                      | 11392 | 4,44 | 3282         | 13421 | 5,36 | 3874                      | 15738 | 6,57 | 4195         | 17042                  | 6,48 | 4443         | 18053 | 6,26 |
|                             | Liquid receiver volume        | 12 liters                 |       |      |              |       |      | MEPS <sup>(c)</sup>       |       |      |              | 3,27                   |      |              |       |      |
|                             | Weight                        | 165 kg                    |       |      |              |       |      | Annual Energy Consumption |       |      |              | 15634 kWh/year         |      |              |       |      |
|                             | Connections                   | Liquid / suction 5/8"     |       |      |              |       |      | Power Supply              |       |      |              | 400 V / 3+N+PE / 50 Hz |      |              |       |      |
|                             | Sound pressure <sup>(b)</sup> | day / night 42 / 39 dB(A) |       |      |              |       |      |                           |       |      |              |                        |      |              |       |      |

## NOTES

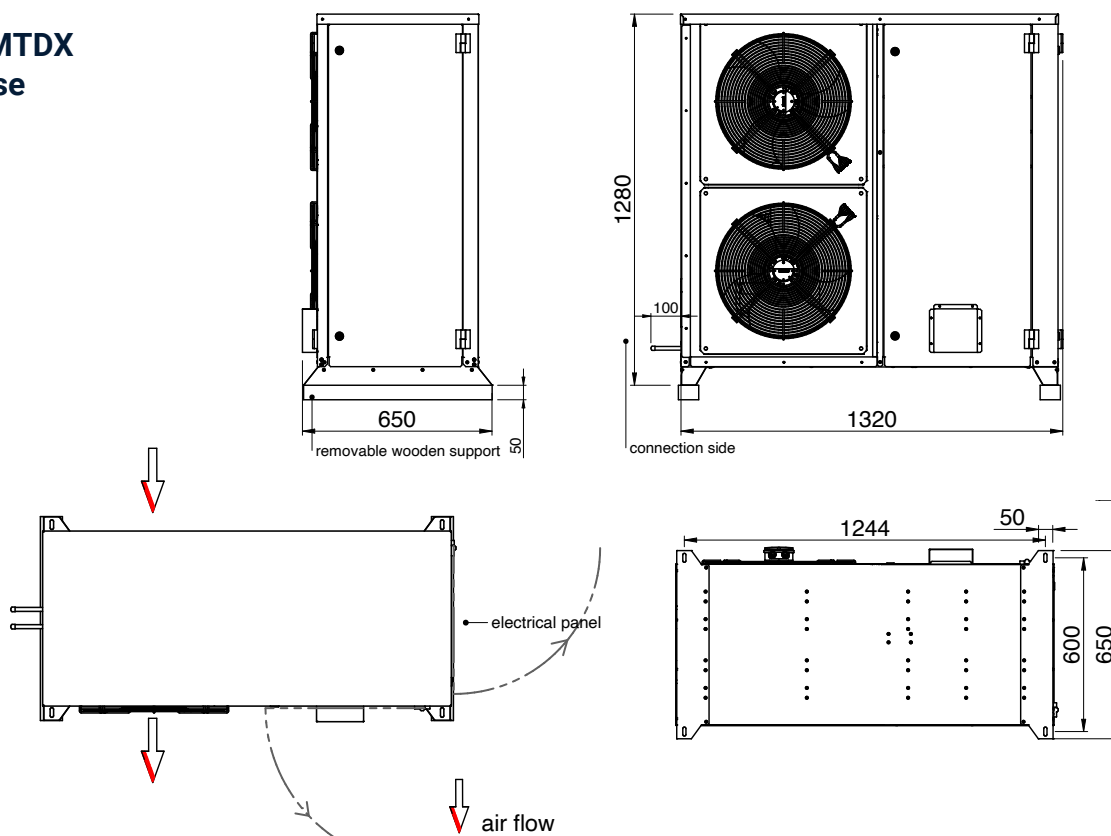
<sup>(a)</sup> Interstage SST variable from -5 °C to 0°C according to operating conditions. Inverter modulation from 25 - 100%, corresponding to 1500-6000 rpm<sup>(b)</sup> based on free field area weed semi-spherical sound emission in 10m distance; tolerance ± 2 dB(A)<sup>(c)</sup> Minimum Energy Performance Standards, calculated according to Ecodesign Directive EN 2009/125/EC

# Dimensional Data

## BTDX - MTDX Standard

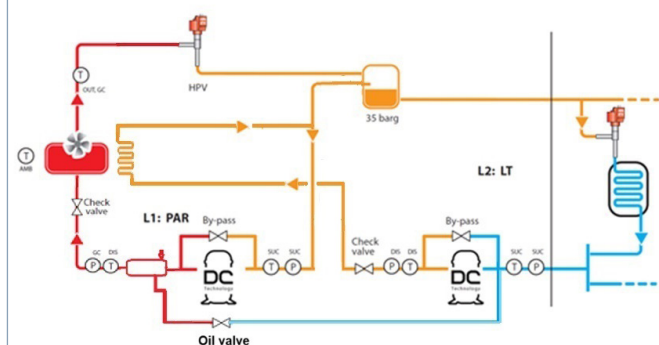


## BTDX - MTDX Low Noise

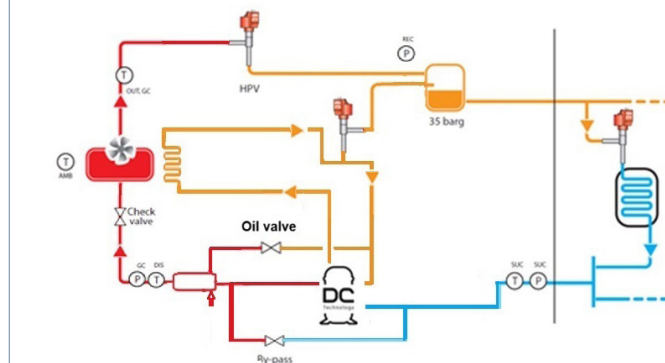


# Unit Configuration

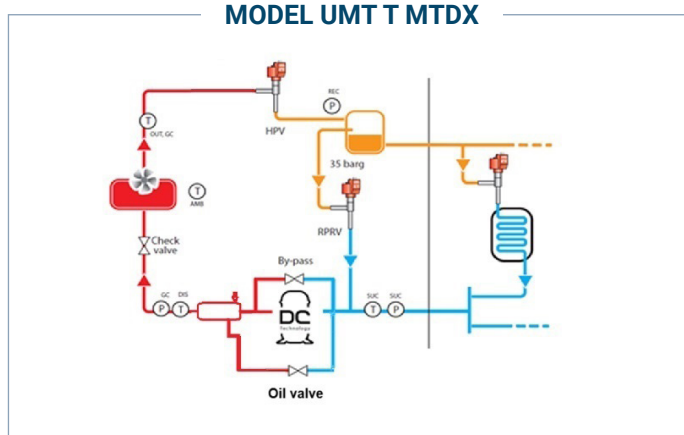
**MODEL UMT T BTDX - 2 COMPRESSORS**



**MODEL UMT T BTDX  
2 - STAGE COMPRESSOR**

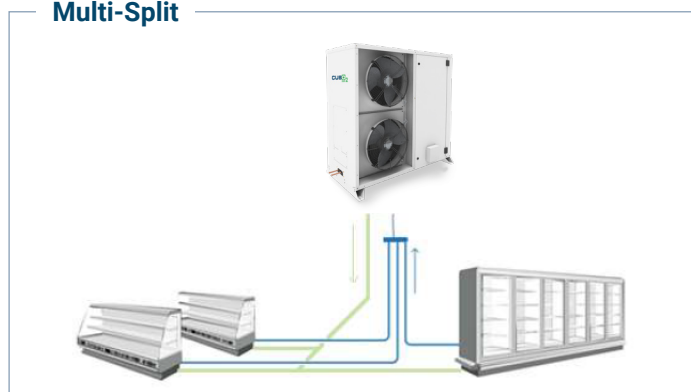


**MODEL UMT T MTDX**



# Installation Design

**Multi-Split**



**Branch**



## Pipe Connections (Multi-Split or Branch)

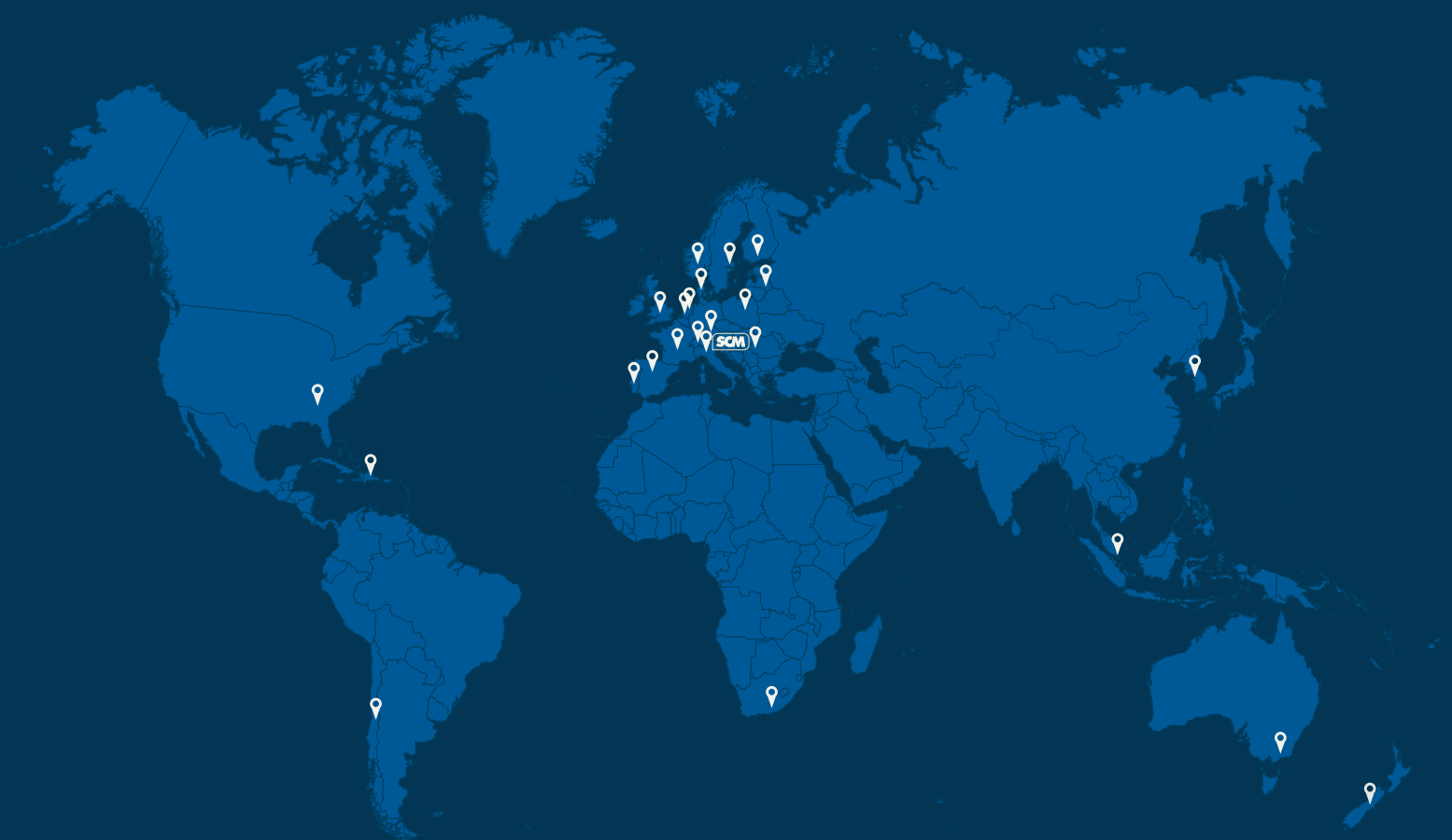
The connection between the Condensing Unit and more remote evaporators can be the same one used for Multi-Split or branch system.

The preferred one is the one is able to guarantee the highest gas velocity in the suction line (for a good oil return) with a low pressure drop.

For Multi-Split layout, the system requires a dedicated suction line for each evaporator that will be collected by a manifold installed close to the condensing unit.

Please refer to the example reported in the pictures.

- Liquid line must be properly sized to supply the farther evaporators (liquid velocity < 1 m/s is suggested).
- Suction line must be properly sized to have a good oil return with a low pressure drop (gas velocity min 5m/s).



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