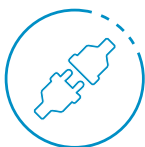




# intarCUBE

Footprint condensing units



Plug & Play  
installation



Low investment  
cost



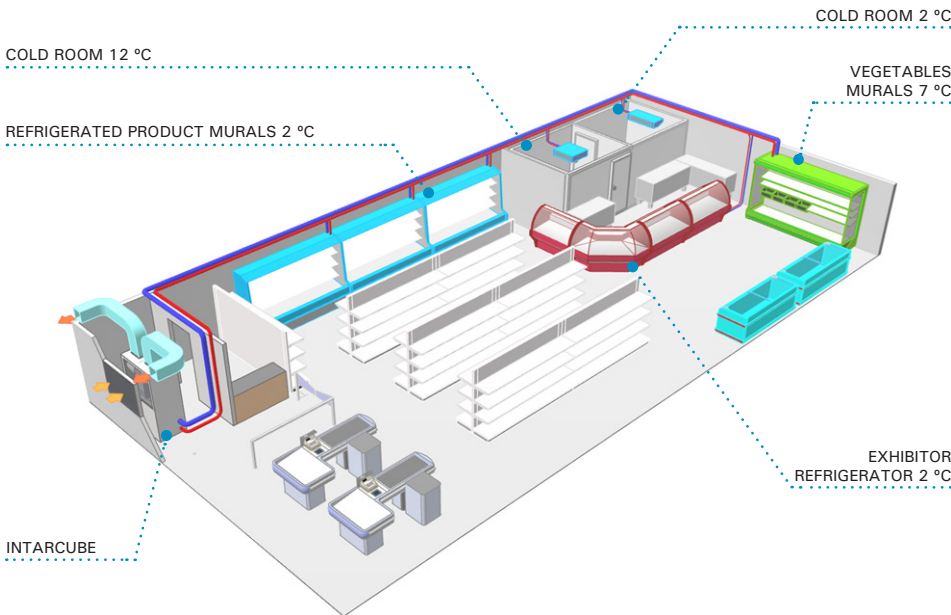
Compact  
design



Footprint condensing units with one to three compressors, with axial or centrifugal condensation, for medium and low temperature.

### Applications

intarCUBE footprint condensing units are designed to centralise the refrigeration production of a set of evaporator units.



intarCUBE condensing units in centrifugal version are designed for installation in a machine room with ducted air discharge.

### F-Gas regulation

At INTARCON we anticipate the environmental regulations of the European Union with low greenhouse solutions. Our condensing units comply with the scenarios of the EU regulation 517/2014 (F-Gas Regulation).

From 1 January 2022, the marketing of compact multi-compressor condensing units with HFC refrigerants for commercial use is limited to less than 40 kW of cooling capacity.

- ❄ Very compact refrigeration condensing units.
- ❄ Low investment and maintenance costs.
- ❄ Quick Plug & Play installation in new or retrofit installations.
- ❄ F-Gas 2022 and Ecodesign compliant.

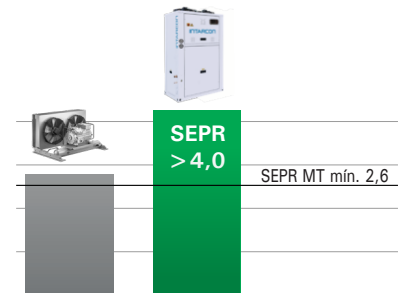
### Plug & Play

INTARCON units are specifically designed and dimensioned for each R-134a or R-449A refrigerant.

They are delivered factory tested and adjusted with CE conformity certificate as a whole (pressure equipment, Ecodesign, etc.).

### Ecodesign

The Ecodesign Regulation (EU) 2015/1095 applicable to condensing and mini condensing units with built-in condenser sets minimum SEPR seasonal efficiency requirements.



intarCUBE condensing units are characterised by an excellent Ecodesign efficiency even higher than 4.0.

### Operational reliability

The duplication of components and back-up systems is an important design criterion. Most intarCUBE condensing units are equipped with two or more fans, tandem or trio compressors, and emergency operation (optional).

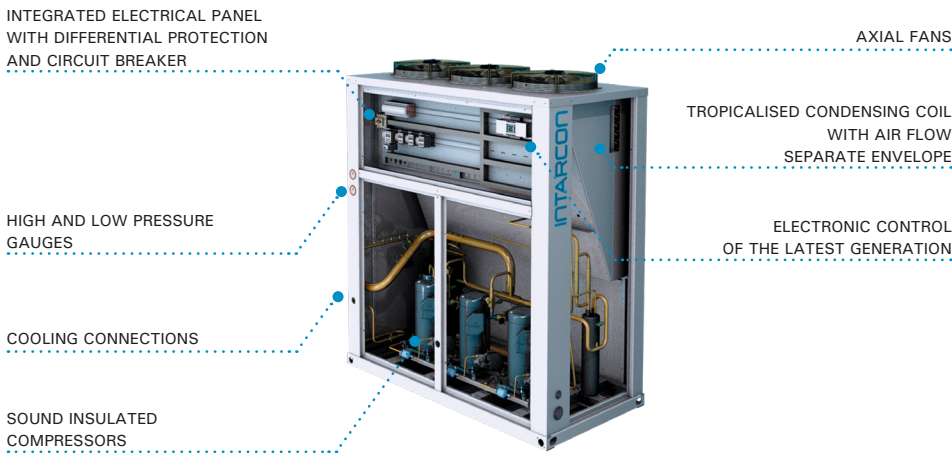
### Highly reliable compressors

Maneurop hermetic reciprocating compressors and Copeland scroll compressors are characterised by their robustness and operational reliability. As they are cooled by the refrigerant gas, they provide effective sound insulation.

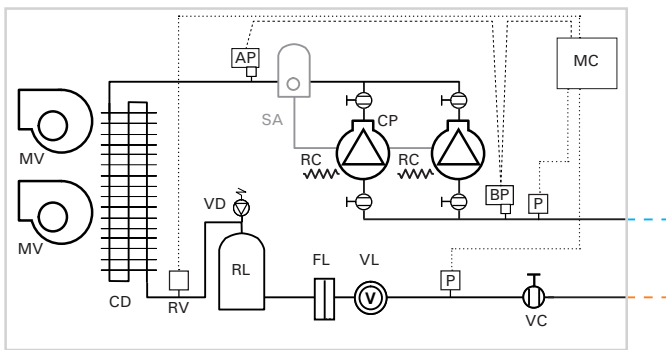


Features

- ▶ 400V 3N 50Hz power supply. Available in 60Hz. Others voltages by request.
- ▶ Hermetic alternative compressors, with discharge silencer, or scroll, in a soundproofed compartment independent of the air flow.
- ▶ Sound insulation of compressors, silentblocks, internal clixon and crankcase heater.
- ▶ Axial or centrifugal fans with variable speed.
- ▶ Refrigeration circuit equipped with high and low pressure switches, ceramic dryer filter, liquid receiver and sight gauge.
- ▶ Full control and power panel, with differential switch protection and MCB switch.
- ▶ Liquid injection system for negative temperature models.
- ▶ Fan for cooling the electrical panel.
- ▶ Digital compressor control (R version).



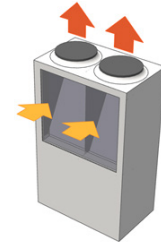
MDV-C-6 refrigeration scheme



- |                      |                                |
|----------------------|--------------------------------|
| CP: COMPRESSOR       | VC: SERVICE VALVE              |
| RC: CRANKCASE HEATER | MC: ELECTRONIC MICROCONTROLLER |
| MV: AXIAL MOTOR FAN  | P: PRESSURE TRANSDUCER         |
| CD: CONDENSER        | AP: HIGH PRESSURE SWITCH       |
| FL: DRYING FILTER    | BP: LOW PRESSURE SWITCH        |
| VL: SIGHT GAUGE      | SA: OIL SEPARATOR (OPTIONAL)   |
| RL: LIQUID RECEIVER  |                                |
| VD: SECURITY VALVE   |                                |
| RV: SPEED REGULATOR  |                                |

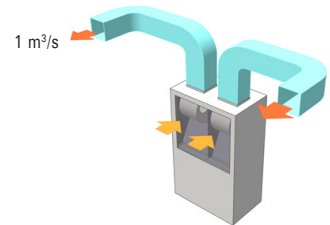
Axial condensation

intarCUBE units are designed for outdoor installation with minimum floor space footprint. The compressors are located in a soundproofed compartment separated from the air flow, and the fans have independent air volumes to avoid air recirculation in case of fan failure.



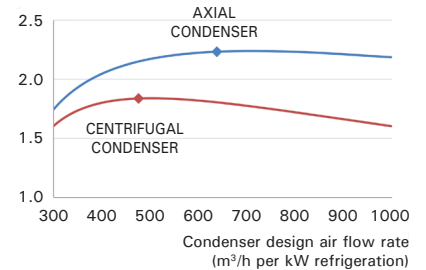
Centrifugal condensation

intarCUBE units can be equipped with medium-pressure centrifugal turbines, which allow the condensing units to be installed in the machine room and the air to be discharged to the outside via ducts.



Our centrifugal condensers are specifically designed to maximise the performance of the unit, while adjusting the air flow to the limitations of municipal regulations.

COP of the package



Dimensioning of air ducts

Recommended dimensions for discharge duct in sheet metal, or fibreglass panel, depending on the equivalent length:

| Series   | Flow m³/h  | Equivalent length (mm) |             |
|----------|------------|------------------------|-------------|
|          |            | 20 - 30 m              | 40 - 60 m   |
| 5 series | 3 600      | 400 x 300              | 400 x 400   |
| 6 series | 2 x 3 600  | 500 x 400              | 600 x 400   |
| 7 series | 3 x 3 600  | 750 x 400              | 800 x 500   |
| 8 series | 2 x 10 000 | 1 000 x 500            | 1 000 x 600 |

Each 90° circular elbow is equivalent to 5 m in length.

It is recommended to select the air intake and discharge grilles according to the following indications:

| Series   | Discharge    |           | Air intake   |           |
|----------|--------------|-----------|--------------|-----------|
|          | Volume (m/s) | Area (m²) | Volume (m/s) | Area (m²) |
| 5 series |              | 0.2       |              | 0.3       |
| 6 series |              | 0.4       |              | 0.7       |
| 7 series | < 5          |           | < 3          | 1.0       |
| 8 series |              | 1.0       |              | 2.0       |

**400V 3N 50Hz | Positive temperature | Hermetic compressor | R-134a / R-449A**

| 1x Hermetic Compressor | Axial version<br>Series / Model | Compressor    |           | Cooling capacity (kW) <sup>(1)</sup> |       |        |        | Input power (kW) | SEPR <sup>(2)</sup> | Max. current (A) | Condenser  |                 | Liq-Gas Cooling Connection | Weight (kg) | SPL dB(A) <sup>(3)</sup> | Centrifugal version |                 |                         |     |
|------------------------|---------------------------------|---------------|-----------|--------------------------------------|-------|--------|--------|------------------|---------------------|------------------|------------|-----------------|----------------------------|-------------|--------------------------|---------------------|-----------------|-------------------------|-----|
|                        |                                 | HP            | Model     | Average evaporating temperature      |       |        |        |                  |                     |                  | Fan Ø (mm) | Air flow (m³/h) |                            |             |                          | Series / Model      | Air flow (m³/h) | ASP (Pa) <sup>(4)</sup> |     |
|                        |                                 |               |           | 0 °C                                 | -5 °C | -10 °C | -15 °C |                  |                     |                  |            |                 |                            |             |                          |                     |                 |                         |     |
| R-134a                 | 1x Hermetic                     | MDV-NY-5 0136 | 6.5       | MTZ80                                | 10.5  | 8.4    | 6.5    | 4.9              | 3.1                 | 3.1              | 21         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 167                      | 35                  | MDV-CY-5 0136   | 3 600                   | 120 |
|                        |                                 | MDV-NY-5 0171 | 8         | MTZ100                               | 12.2  | 9.8    | 7.6    | 5.7              | 3.9                 | 2.8              | 24         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 189                      | 41                  | MDV-CY-5 0171   | 3 600                   | 120 |
|                        |                                 | MDV-NY-5 0215 | 10        | MTZ125                               | 14.4  | 11.7   | 9.2    | 6.9              | 4.6                 | 2.9              | 29         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 193                      | 40                  | MDV-CY-5 0215   | 3 600                   | 120 |
|                        |                                 | MDV-NY-5 0271 | 13        | MTZ160                               | 18.1  | 15.0   | 12.3   | 9.7              | 6.5                 | 2.6              | 38         | 1x Ø 450        | 4 300                      | 1/2"-1 3/8" | 198                      | 39                  | MDV-CY-5 0271   | 3 600                   | 120 |
|                        | 2x Hermetic                     | MDV-NY-5 0137 | 7         | 2x MTZ40                             | 11.0  | 8.9    | 7.0    | 5.5              | 3.5                 | 3.4              | 21         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 179                      | 31                  | MDV-CY-5 0137   | 3 600                   | 120 |
|                        |                                 | MDV-NY-5 0172 | 8         | 2x MTZ50                             | 12.3  | 9.9    | 7.7    | 5.8              | 3.9                 | 3.4              | 25         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 199                      | 42                  | MDV-CY-5 0172   | 3 600                   | 120 |
|                        |                                 | MDV-NY-5 0216 | 10        | 2x MTZ64                             | 14.4  | 11.7   | 9.3    | 6.9              | 4.7                 | 3.5              | 30         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 203                      | 39                  | MDV-CY-5 0216   | 3 600                   | 120 |
|                        |                                 | MDV-NY-5 0272 | 13        | 2x MTZ80                             | 17.0  | 14.1   | 11.4   | 8.8              | 6.2                 | 3.3              | 40         | 1x Ø 450        | 4 300                      | 1/2"-1 3/8" | 209                      | 38                  | MDV-CY-5 0272   | 3 600                   | 120 |
|                        |                                 | MDV-NY-6 0320 | 16        | 2x MTZ100                            | 24.7  | 19.8   | 15.3   | 11.4             | 7.7                 | 3.4              | 47         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 3/8" | 318                      | 44                  | MDV-CY-6 0320   | 2x 3 600                | 160 |
|                        |                                 | MDV-NY-6 0430 | 20        | 2x MTZ125                            | 29.3  | 23.7   | 18.6   | 13.9             | 8.9                 | 3.6              | 57         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 5/8" | 326                      | 43                  | MDV-CY-6 0430   | 2x 3 600                | 160 |
| R-449A                 | 3x Herm.                        | MDV-NY-6 0542 | 26        | 2x MTZ160                            | 36.9  | 30.7   | 24.9   | 19.7             | 12.7                | 3.5              | 75         | 2x Ø 450        | 2x 3 600                   | 5/8"-2 1/8" | 336                      | 42                  | MDV-CY-6 0542   | 2x 3 600                | 160 |
|                        |                                 | MDV-NY-7 0513 | 24        | 3x MTZ100                            | 38.2  | 30.3   | 23.4   | 17.4             | 11.8                | 3.2              | 73         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 477                      | 46                  | MDV-CY-7 0513   | 3x 3 600                | 160 |
|                        |                                 | MDV-NY-7 0645 | 30        | 3x MTZ125                            | 45.6  | 36.7   | 28.5   | 21.3             | 13.6                | 3.5              | 88         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 489                      | 45                  | MDV-CY-7 0645   | 3x 3 600                | 160 |
|                        | 1x Hermetic                     | MDV-NY-7 0813 | 39        | 3x MTZ160                            | 57.8  | 47.8   | 38.6   | 30.1             | 19.5                | 3.6              | 115        | 3x Ø 450        | 3x 4 750                   | 7/8"-2 1/8" | 504                      | 44                  | MDV-CY-7 0813   | 3x 3 600                | 160 |
|                        |                                 | MDV-NG-5 0086 | 4         | MTZ50                                | 11.6  | 9.5    | 7.6    | 6.0              | 3.3                 | 3.3              | 13         | 1x Ø 450        | 4 300                      | 1/2"-7/8"   | 162                      | 39                  | MDV-CG-5 0086   | 3 600                   | 120 |
|                        |                                 | MDV-NG-5 0108 | 5         | MTZ64                                | 14.0  | 11.6   | 9.4    | 7.5              | 4.4                 | 3.1              | 16         | 1x Ø 450        | 4 300                      | 1/2"-7/8"   | 164                      | 37                  | MDV-CG-5 0108   | 3 600                   | 120 |
|                        |                                 | MDV-NG-5 0136 | 6.5       | MTZ80                                | 16.8  | 14.2   | 11.7   | 9.5              | 5.8                 | 2.8              | 21         | 1x Ø 450        | 4 300                      | 1/2"-1 1/8" | 167                      | 35                  | MDV-CG-5 0136   | 3 600                   | 120 |
|                        |                                 | MDV-NG-6 0160 | 8         | MTZ100                               | 23.2  | 18.9   | 15.2   | 12.0             | 6.8                 | 3.1              | 25         | 2x Ø 450        | 2x 3 600                   | 5/8"-1 1/8" | 254                      | 41                  | MDV-CG-6 0160   | 2x 3 600                | 160 |
|                        |                                 | MDV-NG-6 0215 | 10        | MTZ125                               | 28.1  | 23.3   | 18.8   | 14.9             | 8.6                 | 3.1              | 30         | 2x Ø 450        | 2x 3 600                   | 5/8"-1 3/8" | 258                      | 40                  | MDV-CG-6 0215   | 2x 3 600                | 160 |
|                        |                                 | MDV-NG-6 0271 | 13        | MTZ160                               | 33.8  | 28.3   | 23.2   | 18.6             | 11.4                | 2.8              | 39         | 2x Ø 450        | 2x 3 600                   | 5/8"-1 3/8" | 263                      | 39                  | MDV-CG-6 0271   | 2x 3 600                | 160 |
| 2x Hermetic            | MDV-NG-7 0271                   | 13            | MTZ160    | 38.0                                 | 31.2  | 25.3   | 20.0   | 11.8             | 3.1                 | 43               | 3x Ø 450   | 3x 4 750        | 5/8"-1 3/8"                | 358         | 40                       | MDV-CG-7 0271       | 2x 3 600        | 160                     |     |
|                        | MDV-NG-5 0097                   | 4             | 2x MTZ28  | 12.5                                 | 10.3  | 8.3    | 6.5    | 4.0              | 3.2                 | 17               | 1x Ø 450   | 4 300           | 1/2"-7/8"                  | 173         | 32                       | MDV-CG-5 0097       | 3 600           | 120                     |     |
|                        | MDV-NG-5 0109                   | 5             | 2x MTZ32  | 13.9                                 | 11.6  | 9.4    | 7.5    | 4.5              | 3.4                 | 18               | 1x Ø 450   | 4 300           | 1/2"-7/8"                  | 175         | 32                       | MDV-CG-5 0109       | 3 600           | 120                     |     |
|                        | MDV-NG-5 0120                   | 6             | 2x MTZ36  | 15.5                                 | 13.0  | 10.7   | 8.6    | 5.4              | 3.4                 | 20               | 1x Ø 450   | 4 300           | 1/2"-1 1/8"                | 177         | 31                       | MDV-CG-5 0120       | 3 600           | 120                     |     |
|                        | MDV-NG-5 0137                   | 7             | 2x MTZ40  | 17.0                                 | 14.4  | 11.9   | 9.7    | 6.1              | 3.4                 | 21               | 1x Ø 450   | 4 300           | 1/2"-1 1/8"                | 179         | 31                       | MDV-CG-5 0137       | 3 600           | 120                     |     |
|                        | MDV-NG-6 0172                   | 8             | 2x MTZ50  | 23.5                                 | 19.2  | 15.4   | 12.2   | 6.5              | 3.5                 | 26               | 2x Ø 450   | 2x 3 600        | 5/8"-1 1/8"                | 264         | 42                       | MDV-CG-6 0172       | 2x 3 600        | 160                     |     |
|                        | MDV-NG-6 0216                   | 10            | 2x MTZ64  | 28.3                                 | 23.5  | 19.0   | 15.1   | 8.5              | 3.5                 | 31               | 2x Ø 450   | 2x 3 600        | 5/8"-1 3/8"                | 268         | 40                       | MDV-CG-6 0216       | 2x 3 600        | 160                     |     |
|                        | MDV-NG-6 0272                   | 13            | 2x MTZ80  | 34.3                                 | 28.8  | 23.8   | 19.1   | 11.5             | 3.5                 | 41               | 2x Ø 450   | 2x 3 600        | 5/8"-1 3/8"                | 274         | 38                       | MDV-CG-6 0272       | 2x 3 600        | 160                     |     |
|                        | MDV-NG-7 0320                   | 16            | 2x MTZ100 | 45.0                                 | 37.1  | 29.7   | 23.5   | 13.9             | 3.2                 | 51               | 3x Ø 450   | 3x 4 750        | 7/8"-1 5/8"                | 462         | 44                       | MDV-CG-7 0320       | 3x 3 600        | 160                     |     |
|                        | MDV-NG-7 0430                   | 20            | 2x MTZ125 | 54.0                                 | 45.0  | 36.6   | 29.1   | 17.5             | 3.4                 | 61               | 3x Ø 450   | 3x 4 750        | 7/8"-1 5/8"                | 470         | 43                       | MDV-CG-7 0430       | 3x 3 600        | 160                     |     |
| 3x Hermetic            | MDV-NG-7 0542                   | 26            | 2x MTZ160 | 64.2                                 | 54.2  | 39.9   | 36.3   | 23.0             | 3.3                 | 79               | 3x Ø 450   | 3x 4 750        | 7/8"-2 1/8"                | 480         | 42                       | MDV-CG-7 0542       | 3x 3 600        | 160                     |     |
|                        | MDV-NG-7 0258                   | 12            | 3x MTZ50  | 35.8                                 | 29.2  | 23.4   | 18.5   | 9.9              | 3.1                 | 42               | 3x Ø 450   | 3x 4 750        | 5/8"-1 3/8"                | 445         | 44                       | MDV-CG-7 0258       | 3x 3 600        | 160                     |     |
|                        | MDV-NG-7 0324                   | 15            | 3x MTZ64  | 43.7                                 | 36.0  | 29.0   | 23.0   | 12.9             | 3.3                 | 49               | 3x Ø 450   | 3x 4 750        | 7/8"-1 5/8"                | 451         | 41                       | MDV-CG-7 0324       | 3x 3 600        | 160                     |     |
|                        | MDV-NG-7 0408                   | 18            | 3x MTZ80  | 53.3                                 | 44.6  | 36.4   | 29.2   | 17.3             | 3.3                 | 64               | 3x Ø 450   | 3x 4 750        | 7/8"-1 5/8"                | 460         | 40                       | MDV-CG-7 0408       | 3x 3 600        | 160                     |     |
|                        | MDV-NG-7 0480                   | 24            | 3x MTZ100 | 60.6                                 | 50.8  | 39.9   | 33.2   | 21.2             | 3.3                 | 73               | 3x Ø 450   | 3x 4 750        | 7/8"-2 1/8"                | 526         | 46                       | MDV-CG-7 0480       | 3x 3 600        | 160                     |     |

**400V 3N 50Hz | Negative temperature | Hermetic compressor | R-449A**

| Refrigerant Compressor | Axial version<br>Series / Model | Compressor    |       | Cooling capacity (kW) <sup>(1)</sup> |        |        |        | Input power (kW) | SEPR <sup>(2)</sup> | Max. current (A) | Condenser  |                 | Liq-Gas Cooling Connection | Weight (kg) | SPL dB(A) <sup>(3)</sup> | Centrifugal version |                 |                         |     |
|------------------------|---------------------------------|---------------|-------|--------------------------------------|--------|--------|--------|------------------|---------------------|------------------|------------|-----------------|----------------------------|-------------|--------------------------|---------------------|-----------------|-------------------------|-----|
|                        |                                 | HP            | Model | Average evaporating temperature      |        |        |        |                  |                     |                  | Fan Ø (mm) | Air flow (m³/h) |                            |             |                          | Series / Model      | Air flow (m³/h) | ASP (Pa) <sup>(4)</sup> |     |
|                        |                                 |               |       | -20 °C                               | -25 °C | -30 °C | -35 °C |                  |                     |                  |            |                 |                            |             |                          |                     |                 |                         |     |
| R-449A                 | 1x H.                           | BDV-NG-5 0215 | 7.5   | NTZ215                               | 11.1   | 8.7    | 6.5    | 4.6              | 3.8                 | 1.6              | 24         | 1x Ø 450        | 4 300                      | 1/2"-1 1/8" | 193                      | 40                  | BDV-CG-5 0215   | 3 600                   | 120 |
|                        |                                 | BDV-NG-5 0271 | 10    | NTZ271                               | 13.7   | 11.1   | 8.5    | 6.2              | 5.1                 | 1.6              | 29         | 1x Ø 450        | 4 300                      | 1/2"-1 1/8" | 193                      | 40                  | BDV-CG-5 0271   | 3 600                   | 120 |
|                        | 2x Hermetic                     | BDV-NG-5 0192 | 7     | 2x NTZ96                             | 9.9    | 7.5    | 5.6    | 3.8              | 3.2                 | 1.8              | 22         | 1x Ø 450        | 4 300                      | 1/2"-1 1/8" | 199                      | 43                  | BDV-CG-5 0192   | 3 600                   | 120 |
|                        |                                 | BDV-NG-5 0216 | 8     | 2x NTZ108                            | 11.1   | 8.7    | 6.5    | 4.6              | 3.9                 | 1.8              | 26         | 1x Ø 450        | 4 300                      | 1/2"-1 1/8" | 199                      | 41                  | BDV-CG-5 0216   | 3 600                   | 120 |
|                        |                                 | BDV-NG-5 0272 | 10    | 2x NTZ136                            | 13.3   | 10.6   | 8.1    | 5.8              | 5.1                 | 1.7              | 30         | 1x Ø 450        | 4 300                      | 1/2"-1 1/8" | 199                      | 37                  | BDV-CG-5 0272   | 3 600                   | 120 |
|                        |                                 | BDV-NG-6 0430 | 15    | 2x NTZ215                            | 22.7   | 17.6   | 13.2   | 9.3              | 7.5                 | 1.9              | 48         | 2x Ø 450        | 2x 3 600                   | 5/8"-1 5/8" | 326                      | 43                  | BDV-CG-6 0430   | 2x 3 600                | 160 |
|                        |                                 | BDV-NG-6 0542 | 20    | 2x NTZ271                            | 28.1   | 22.5   | 17.3   | 12.5             | 10.1                | 1.9              | 57         | 2x Ø 450        | 2x 3 600                   | 5/8"-2 1/8" | 326                      | 43                  | BDV-CG-6 0542   | 2x 3 600                | 160 |
|                        |                                 | BDV-NG-7 0645 | 22.5  | 3x NTZ215                            | 34.9   | 26.9   | 20.2   | 14.0             | 11.5                | 1.9              | 74         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 489                      | 45                  | BDV-CG-7 0645   | 3x 3 600                | 160 |
|                        |                                 | BDV-NG-7 0813 | 30    | 3x NTZ271                            | 43.7   | 34.7   | 26.5   | 19.1             | 15.4                | 1.9              | 88         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 489                      | 45                  | BDV-CG-7 0813   | 3x 3 600                | 160 |

**Options**

- ▶ VRC system for cooling capacity modulation for hermetic compressors (V version). Includes electronic oil injection only for 3-compressor units.
- ▶ Digital Scroll system (S version).
- ▶ Oil separator (standard in tandem of two scroll compressors in low temperature, and trios in medium and low temperature).
- ▶ Anti-corrosion coil coating.
- ▶ Automatic emergency manoeuvre.
- ▶ Discharge check valve.
- ▶ Low voltage and phase change protection.
- ▶ Heat recovery (20 or 80 % condenser heat) for hot water generation.
- ▶ Radial electronic EC fans (6 and 7 series).

<sup>(1)</sup> Conditions according to UNE-EN 13215: Ambient temp. 32 °C, average evaporating temp. of -10 °C (PT) and -35 °C (NT), SH=10 K, refrigerant R-134a and R-449A.

<sup>(2)</sup> Seasonal Performance Factor (SEPR) according to Commission Regulation (EU) 2015/1095.

<sup>(3)</sup> Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

<sup>(4)</sup> Available static pressure condensation for air ducts.



400V 3N 50Hz | Positive temperature | Scroll compressor | R-134a / R-449A

| Refrigerant                  | Compressor | Axial version<br>Series / Model | Compressor<br>HP Model | Cooling capacity (kW) <sup>(1)</sup> |       |             |             | Input power (kW) | SEPR <sup>(2)</sup> | Max. current (A) | Condenser  |                 | Liq-Gas Cooling Connection | Weight (kg) | SPL dB(A) <sup>(3)</sup> | Centrifugal version |                 |                         |     |
|------------------------------|------------|---------------------------------|------------------------|--------------------------------------|-------|-------------|-------------|------------------|---------------------|------------------|------------|-----------------|----------------------------|-------------|--------------------------|---------------------|-----------------|-------------------------|-----|
|                              |            |                                 |                        | Average evaporating temperature      |       |             |             |                  |                     |                  | Fan Ø (mm) | Air flow (m³/h) |                            |             |                          | Series / Model      | Air flow (m³/h) | ASP (Pa) <sup>(4)</sup> |     |
|                              |            |                                 |                        | 0 °C                                 | -5 °C | -10 °C      | -15 °C      |                  |                     |                  |            |                 |                            |             |                          |                     |                 |                         |     |
| R-134a                       | 1x Scroll  | MDV-SY-5 0451 <sup>(5)</sup>    | 6                      | ZB45                                 | 9.4   | 7.8         | <b>6.4</b>  | 5.2              | 2.8                 | 3.6              | 15         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 165                      | 28                  | MDV-SCY-5 0451  | 3 600                   | 120 |
|                              |            | MDV-SY-5 0571 <sup>(5)</sup>    | 7.5                    | ZB57                                 | 11.6  | 9.7         | <b>8.0</b>  | 6.4              | 4.0                 | 3.0              | 18         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 169                      | 32                  | MDV-SCY-5 0571  | 3 600                   | 120 |
|                              |            | MDV-SY-5 0761 <sup>(5)</sup>    | 10                     | ZB76                                 | 14.8  | 12.5        | <b>10.4</b> | 8.5              | 5.3                 | 2.7              | 22         | 1x Ø 450        | 4 300                      | 1/2"-1 3/8" | 186                      | 31                  | MDV-SCY-5 0761  | 3 600                   | 120 |
|                              |            | MDV-SY-6 0951                   | 13                     | ZB95                                 | 20.0  | 16.5        | <b>13.5</b> | 10.9             | 6.1                 | 3.4              | 31         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 3/8" | 255                      | 33                  | MDV-SCY-6 0951  | 2x 3 600                | 160 |
|                              |            | MDV-SY-6 1141 <sup>(5)</sup>    | 15                     | ZB114                                | 23.2  | 19.3        | <b>15.9</b> | 12.9             | 7.5                 | 3.1              | 37         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 5/8" | 256                      | 35                  | MDV-SCY-6 1141  | 2x 3 600                | 160 |
|                              | 2x Scroll  | MDV-SY-5 0422 <sup>(5)</sup>    | 6                      | 2x ZB21                              | 9.4   | 7.8         | <b>6.4</b>  | 5.1              | 2.9                 | 4.2              | 16         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 181                      | 28                  | MDV-SCY-5 0422  | 3 600                   | 120 |
|                              |            | MDV-SY-5 0582 <sup>(5)</sup>    | 8                      | 2x ZB29                              | 11.5  | 9.6         | <b>7.9</b>  | 6.4              | 4.0                 | 3.8              | 22         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 182                      | 28                  | MDV-SCY-5 0582  | 3 600                   | 120 |
|                              |            | MDV-SY-5 0762 <sup>(5)</sup>    | 10                     | 2x ZB38                              | 14.8  | 12.4        | <b>10.3</b> | 8.4              | 5.2                 | 3.8              | 27         | 1x Ø 450        | 4 300                      | 1/2"-1 3/8" | 200                      | 30                  | MDV-SCY-5 0762  | 3 600                   | 120 |
|                              |            | MDV-SY-6 0902 <sup>(5)</sup>    | 12                     | 2x ZB45                              | 18.9  | 15.6        | <b>12.8</b> | 10.3             | 5.4                 | 4.6              | 29         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 3/8" | 269                      | 31                  | MDV-SCY-6 0902  | 2x 3 600                | 160 |
|                              |            | MDV-SY-6 1142 <sup>(5)</sup>    | 15                     | 2x ZB57                              | 23.3  | 19.4        | <b>15.9</b> | 12.9             | 7.7                 | 3.9              | 35         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 5/8" | 278                      | 35                  | MDV-SCY-6 1142  | 2x 3 600                | 160 |
|                              |            | MDV-SY-7 1522 <sup>(5)</sup>    | 20                     | 2x ZB76                              | 31.8  | 26.3        | <b>21.5</b> | 17.4             | 9.8                 | 4.3              | 48         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 407                      | 34                  | MDV-SCY-7 1522  | 3x 3 600                | 160 |
|                              |            | MDV-SY-7 1902                   | 26                     | 2x ZB95                              | 39.2  | 32.6        | <b>26.7</b> | 21.7             | 12.6                | 4.1              | 63         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 415                      | 35                  | MDV-SCY-7 1902  | 3x 3 600                | 160 |
|                              |            | MDV-SY-7 2282 <sup>(5)</sup>    | 30                     | 2x ZB114                             | 45.3  | 37.9        | <b>31.3</b> | 25.4             | 15.5                | 3.9              | 74         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 417                      | 37                  | MDV-SCY-7 2282  | 3x 3 600                | 160 |
|                              |            | MDV-SY-6 0633 <sup>(5)</sup>    | 9                      | 3x ZB21                              | 14.4  | 11.8        | <b>9.7</b>  | 7.8              | 4.2                 | 4.5              | 25         | 2x Ø 450        | 2x 3 600                   | 3/8"-1 3/8" | 274                      | 31                  | MDV-SCY-6 0633  | 2x 3 600                | 160 |
|                              |            | MDV-SY-6 0873 <sup>(5)</sup>    | 12                     | 3x ZB29                              | 17.8  | 14.7        | <b>12.0</b> | 9.7              | 5.6                 | 4.2              | 33         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 3/8" | 276                      | 31                  | MDV-SCY-6 0873  | 2x 3 600                | 160 |
|                              | 3x Scroll  | MDV-SY-6 1143 <sup>(5)</sup>    | 15                     | 3x ZB38                              | 23.2  | 19.3        | <b>15.9</b> | 12.9             | 7.2                 | 4.2              | 42         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 5/8" | 302                      | 32                  | MDV-SCY-6 1143  | 2x 3 600                | 160 |
|                              |            | MDV-SY-6 1353 <sup>(5)</sup>    | 18                     | 3x ZB45                              | 27.0  | 22.6        | <b>18.7</b> | 15.2             | 8.6                 | 4.2              | 43         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 5/8" | 309                      | 32                  | MDV-SCY-6 1353  | 2x 3 600                | 160 |
|                              |            | MDV-SY-6 1713 <sup>(5)</sup>    | 22.5                   | 3x ZB57                              | 32.8  | 27.6        | <b>23.0</b> | 18.8             | 12.2                | 3.5              | 51         | 2x Ø 450        | 2x 3 600                   | 5/8"-2 1/8" | 321                      | 36                  | MDV-SCY-6 1713  | 2x 3 600                | 160 |
| MDV-SY-7 2283 <sup>(5)</sup> |            | 30                              | 3x ZB76                | 45.6                                 | 38.1  | <b>31.5</b> | 25.6        | 15.4             | 4.0                 | 68               | 3x Ø 450   | 3x 4 750        | 5/8"-2 1/8"                | 469         | 35                       | MDV-SCY-7 2283      | 3x 3 600        | 160                     |     |
| MDV-SY-7 2853                |            | 39                              | 3x ZB95                | 55.2                                 | 46.4  | <b>38.7</b> | 31.7        | 19.9             | 3.7                 | 92               | 3x Ø 450   | 3x 4 750        | 7/8"-2 1/8"                | 480         | 36                       | MDV-SCY-7 2853      | 3x 3 600        | 160                     |     |
| MDV-SG-5 0422 <sup>(5)</sup> |            | 6                               | 2x ZB21                | 14.8                                 | 12.6  | <b>10.6</b> | 8.8         | 5.2              | 3.7                 | 16               | 1x Ø 450   | 4 300           | 1/2"-1 1/8"                | 181         | 28                       | MDV-SCG-5 0422      | 3 600           | 120                     |     |
| MDV-SG-6 0582 <sup>(5)</sup> |            | 8                               | 2x ZB29                | 20.6                                 | 17.3  | <b>14.5</b> | 12.0        | 6.3              | 4.1                 | 23               | 2x Ø 450   | 2x 3 600        | 5/8"-1 1/8"                | 247         | 31                       | MDV-SCG-6 0582      | 2x 3 600        | 160                     |     |
| R-449A                       | 2x Scroll  | MDV-SG-6 0762 <sup>(5)</sup>    | 10                     | 2x ZB38                              | 25.9  | 21.9        | <b>18.3</b> | 15.2             | 8.3                 | 4.0              | 29         | 2x Ø 450        | 2x 3 600                   | 5/8"-1 3/8" | 265                      | 31                  | MDV-SCG-6 0762  | 2x 3 600                | 160 |
|                              |            | MDV-SG-6 0902 <sup>(5)</sup>    | 12                     | 2x ZB45                              | 30.2  | 25.6        | <b>21.5</b> | 17.8             | 9.8                 | 4.0              | 31         | 2x Ø 450        | 2x 4 750                   | 5/8"-1 3/8" | 269                      | 31                  | MDV-SCG-6 0902  | 2x 3 600                | 160 |
|                              |            | MDV-SG-6 1142 <sup>(5)</sup>    | 15                     | 2x ZB57                              | 37.9  | 32.4        | <b>27.5</b> | 23.0             | 12.4                | 4.0              | 37         | 2x Ø 450        | 2x 4 750                   | 7/8"-1 5/8" | 277                      | 35                  | MDV-SCG-6 1142  | 2x 3 600                | 160 |
|                              |            | MDV-SG-7 1142 <sup>(5)</sup>    | 15                     | 2x ZB57                              | 40.9  | 34.4        | <b>28.7</b> | 23.7             | 11.7                | 4.5              | 39         | 3x Ø 450        | 3x 4 750                   | 7/8"-1 5/8" | 372                      | 35                  | MDV-SCG-7 1142  | 3x 3 600                | 160 |
|                              |            | MDV-SG-7 1522 <sup>(5)</sup>    | 20                     | 2x ZB76                              | 52.4  | 44.6        | <b>37.7</b> | 31.4             | 16.8                | 4.1              | 48         | 3x Ø 450        | 3x 4 750                   | 7/8"-2 1/8" | 407                      | 34                  | MDV-SCG-7 1522  | 3x 3 600                | 160 |
|                              | 3x Scroll  | MDV-SG-6 0633 <sup>(5)</sup>    | 9                      | 3x ZB21                              | 23.3  | 19.6        | <b>16.4</b> | 13.6             | 7.3                 | 4.0              | 25         | 2x Ø 450        | 2x 3 600                   | 5/8"-1 1/8" | 274                      | 31                  | MDV-SCG-6 0633  | 2x 3 600                | 160 |
|                              |            | MDV-SG-6 0873 <sup>(5)</sup>    | 12                     | 3x ZB29                              | 29.8  | 25.3        | <b>21.2</b> | 17.6             | 10.0                | 3.8              | 35         | 2x Ø 450        | 2x 4 750                   | 5/8"-1 3/8" | 276                      | 31                  | MDV-SCG-6 0873  | 2x 3 600                | 160 |
|                              |            | MDV-SG-6 1143 <sup>(5)</sup>    | 15                     | 3x ZB38                              | 36.8  | 31.4        | <b>26.6</b> | 22.3             | 13.2                | 3.7              | 43         | 2x Ø 450        | 2x 4 750                   | 7/8"-1 5/8" | 302                      | 32                  | MDV-SCG-6 1143  | 2x 3 600                | 160 |
|                              |            | MDV-SG-7 1353 <sup>(5)</sup>    | 18                     | 3x ZB45                              | 45.4  | 38.5        | <b>32.2</b> | 26.8             | 14.5                | 4.0              | 46         | 3x Ø 450        | 3x 4 750                   | 7/8"-1 5/8" | 404                      | 33                  | MDV-SCG-7 1353  | 3x 3 600                | 160 |
|                              |            | MDV-SG-7 1713 <sup>(5)</sup>    | 22.5                   | 3x ZB57                              | 57.1  | 48.8        | <b>39.9</b> | 34.6             | 18.4                | 4.1              | 55         | 3x Ø 450        | 3x 4 750                   | 7/8"-2 1/8" | 416                      | 37                  | MDV-SCG-7 1713  | 3x 3 600                | 160 |

HFC direct expansion

400V 3N 50Hz | Negative temperature | Scroll compressor | R-449A

| Refrigerant | Compressor                   | Axial version<br>Series / Model | Compressor<br>HP Model       | Cooling capacity (kW) <sup>(1)</sup> |             |        |        | Input power (kW) | SEPR <sup>(2)</sup> | Max. current (A) | Condenser  |                 | Liq-Gas Cooling Connection | Weight (kg) | SPL dB(A) <sup>(3)</sup> | Centrifugal version |                 |                         |          |
|-------------|------------------------------|---------------------------------|------------------------------|--------------------------------------|-------------|--------|--------|------------------|---------------------|------------------|------------|-----------------|----------------------------|-------------|--------------------------|---------------------|-----------------|-------------------------|----------|
|             |                              |                                 |                              | Average evaporating temperature      |             |        |        |                  |                     |                  | Fan Ø (mm) | Air flow (m³/h) |                            |             |                          | Series / Model      | Air flow (m³/h) | ASP (Pa) <sup>(4)</sup> |          |
|             |                              |                                 |                              | -20 °C                               | -25 °C      | -30 °C | -35 °C |                  |                     |                  |            |                 |                            |             |                          |                     |                 |                         |          |
| R-449A      | 1x Scroll                    | BDV-SG-5 0131 <sup>(5)</sup>    | 4                            | ZF13KVE*                             | 6.4         | 5.4    | 4.5    | <b>3.7</b>       | 2.9                 | 1.7              | 11         | 1x Ø 450        | 4 300                      | 3/8"- 7/8"  | 167                      | 29                  | BDV-SCG-5 0131  | 3 600                   | 120      |
|             |                              | BDV-SG-5 0181 <sup>(5)</sup>    | 6                            | ZF18KVE*                             | 10.0        | 8.4    | 6.9    | <b>5.7</b>       | 4.0                 | 1.9              | 16         | 1x Ø 450        | 4 300                      | 3/8"-1 1/8" | 168                      | 31                  | BDV-SCG-5 0181  | 3 600                   | 120      |
|             |                              | BDV-SG-6 0251 <sup>(5)</sup>    | 8                            | ZF25K5E*                             | 12.5        | 10.5   | 8.7    | <b>7.1</b>       | 4.6                 | 2.1              | 19         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 3/8" | 233                      | 34                  | BDV-SCG-6 0251  | 2x 3 600                | 160      |
|             |                              | BDV-SG-6 0341                   | 10                           | ZF34K5E                              | 16.8        | 14.1   | 11.7   | <b>9.6</b>       | 6.2                 | 2.0              | 28         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 3/8" | 259                      | 33                  | BDV-SCG-6 0341  | 2x 3 600                | 160      |
|             |                              | BDV-SG-6 0411 <sup>(5)</sup>    | 13                           | ZF41K5E*                             | 21.1        | 17.7   | 14.7   | <b>12.0</b>      | 7.8                 | 2.1              | 34         | 2x Ø 450        | 2x 4 750                   | 1/2"-1 3/8" | 259                      | 33                  | BDV-SCG-6 0411  | 2x 3 600                | 160      |
|             | 2x Scroll                    | BDV-SG-6 0491                   | 15                           | ZF49K5E                              | 22.8        | 19.2   | 15.9   | <b>13.0</b>      | 9.0                 | 1.9              | 35         | 2x Ø 450        | 2x 4 750                   | 1/2"-1 5/8" | 263                      | 35                  | BDV-SCG-6 0491  | 2x 3 600                | 160      |
|             |                              | BDV-SG-6 0262 <sup>(5)</sup>    | 8                            | 2x ZF13KVE*                          | 12.8        | 10.8   | 8.9    | <b>7.3</b>       | 5.7                 | 1.8              | 21         | 2x Ø 450        | 2x 3 600                   | 1/2"-1 3/8" | 274                      | 32                  | BDV-SCG-6 0262  | 2x 3 600                | 160      |
|             |                              | BDV-SG-6 0362 <sup>(5)</sup>    | 12                           | 2x ZF18KVE*                          | 19.8        | 16.7   | 13.8   | <b>11.3</b>      | 7.9                 | 2.0              | 32         | 2x Ø 450        | 2x 4 750                   | 1/2"-1 3/8" | 277                      | 34                  | BDV-SCG-6 0362  | 2x 3 600                | 160      |
|             |                              | BDV-SG-7 0502 <sup>(5)</sup>    | 16                           | 2x ZF25K5E                           | 24.8        | 20.8   | 17.2   | <b>14.2</b>      | 9.2                 | 2.0              | 38         | 3x Ø 450        | 3x 4 750                   | 1/2"-1 5/8" | 424                      | 35                  | BDV-SCG-7 0502  | 3x 3 600                | 160      |
|             |                              | BDV-SG-7 0682                   | 20                           | 2x ZF34K5E                           | 33.5        | 28.2   | 23.4   | <b>19.0</b>      | 12.8                | 2.1              | 57         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 424                      | 35                  | BDV-SCG-7 0682  | 3x 3 600                | 160      |
|             |                              | BDV-SG-7 0822 <sup>(5)</sup>    | 26                           | 2x ZF41K5E*                          | 41.8        | 35.2   | 29.3   | <b>23.7</b>      | 15.8                | 2.1              | 65         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 424                      | 35                  | BDV-SCG-7 0822  | 3x 3 600                | 160      |
|             |                              | BDV-SG-7 0982                   | 30                           | 2x ZF49K5E                           | 45.1        | 38.0   | 31.6   | <b>25.6</b>      | 18.4                | 2.0              | 67         | 3x Ø 450        | 3x 4 750                   | 5/8"-2 1/8" | 431                      | 38                  | BDV-SCG-7 0982  | 3x 3 600                | 160      |
|             |                              | BDV-SG-6 0393 <sup>(5)</sup>    | 12                           | 3x ZF13KVE*                          | 19.3        | 16.2   | 13.4   | <b>10.9</b>      | 8.6                 | 1.8              | 30         | 2x Ø 450        | 2x 4 750                   | 1/2"-1 3/8" | 315                      | 33                  | BDV-SCG-6 0393  | 2x 3 600                | 160      |
|             |                              | BDV-SG-6 0543 <sup>(5)</sup>    | 18                           | 3x ZF18KVE*                          | 29.9        | 25.1   | 20.8   | <b>17.0</b>      | 12.2                | 1.9              | 46         | 2x Ø 450        | 2x 4 750                   | 5/8"-2 1/8" | 320                      | 35                  | BDV-SCG-6 0543  | 2x 3 600                | 160      |
|             |                              | 3x Scroll                       | BDV-SG-7 0753 <sup>(5)</sup> | 24                                   | 3x ZF25K5E* | 37.3   | 31.4   | 26.1             | <b>21.2</b>         | 14.2             | 2.1        | 55              | 3x Ø 450                   | 3x 4 750    | 5/8"-2 1/8"              | 415                 | 38              | BDV-SCG-7 0753          | 3x 3 600 |
|             | BDV-SG-7 1023                |                                 | 30                           | 3x ZF34K5E                           | 50.1        | 42.2   | 35.1   | <b>28.5</b>      | 19.8                | 2.0              | 82         | 3x Ø 450        | 3x 4 750                   | 7/8"-2 1/8" | 493                      | 37                  | BDV-SCG-7 1023  | 3x 3 600                | 160      |
|             | BDV-SG-7 1233 <sup>(5)</sup> |                                 | 39                           | 3x ZF41K5E*                          | 62.4        | 52.6   | 43.8   | <b>35.6</b>      | 24.7                | 2.0              | 94         | 3x Ø 450        | 3x 4 750                   | 7/8"-2 1/8" | 493                      | 37                  | BDV-SCG-7 1233  | 3x 3 600                | 160      |

<sup>(1)</sup> Conditions according to UNE-EN 13215: Ambient temp. 32 °C, average evaporating temp. of -10 °C (PT) and -35 °C (NT), SH=10 K, refrigerant R-134a and R-449A.

<sup>(2)</sup> Seasonal Performance Factor (SEPR) according to Commission Regulation (EU) 2015/1095.

<sup>(3)</sup> Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

<sup>(4)</sup> Available static pressure condensation for air ducts.

<sup>(5)</sup> Available models with Digital compressor.

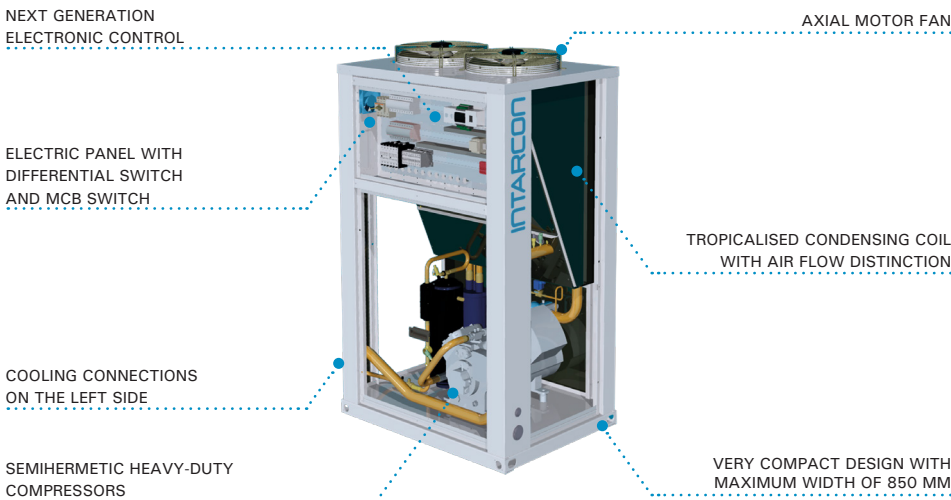


Footprint condensing units with semihermetic compressor, with axial or radial condensation of compact construction, for medium and low temperature, with electrical panel and electronic control.

### Features

- ▶ 400V 3N 50Hz power supply. Available in 60Hz. Other voltages by request.
- ▶ Copeland Stream semihermetic compressor, with rotalock service valves, mounted on shock absorbers, crankcase heater and CoreSense™ electronic compressor diagnostic and protection module.
- ▶ Condenser coil made of copper pipes and aluminium fins.
- ▶ Variable speed fan condensation pressure control by voltage variation (6 and 7 series), and condensation pressure control by double speed (star-delta) of the axial motor fans (8 series).
- ▶ Cooling circuit equipped with oil separator, high and low pressure switches, ceramic filter, liquid receiver and sight glass.
- ▶ Electrical power and control panel, with differential protection and thermal and magneto-thermal protection of compressor/s and motor fan/s.
- ▶ Fan for cooling the electrical panel.

- ❄ Axial fans for outdoor installation.
- ❄ Radial fans for indoor installation in technical rooms.
- ❄ Very compact design.



### Highly reliable semihermetic compressors

The new Copeland Stream range of semihermetic compressors provides best-in-class performance with both existing HFC refrigerants and new low-GWP refrigerants.

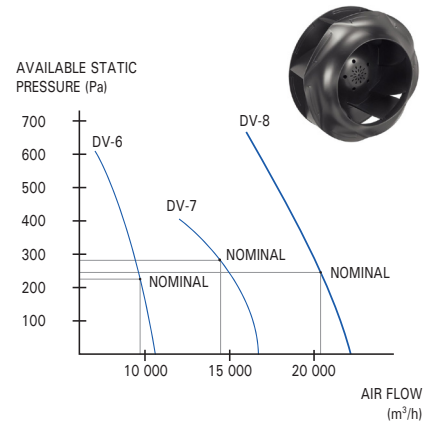
The range consists of four- and six-cylinder semihermetic compressors. They are available to work with variable frequency drives or with Digital modulation, to achieve continuous capacity modulation.



The CoreSense™ technology incorporated in the compressors helps to extend the life of the equipment. This technology provides advanced compressor protection, fault diagnosis, and energy consumption measurement.

### Radial fan

intarCUBE cooling units are equipped with speed-modulated radial fans to allow hot condensing air to be extracted via air ducts.



400V 3N 50Hz | Positive temperature | Semihermetic compressor | R-134a / R-449A

| Refrigerant | Compressor      | Axial version  |  | Compressor |         | Cooling capacity (kW) <sup>(1)</sup> |       |        |        | Input power (kW) | SEPR <sup>(2)</sup> | Max. current (A) | Condenser  |                 | Liq-Gas Cooling Connection | Weight (kg) | SPL dB(A) <sup>(3)</sup> | Radial version |                 |                         |
|-------------|-----------------|----------------|--|------------|---------|--------------------------------------|-------|--------|--------|------------------|---------------------|------------------|------------|-----------------|----------------------------|-------------|--------------------------|----------------|-----------------|-------------------------|
|             |                 | Series / Model |  | HP         | Model   | Average evaporating temperature      |       |        |        |                  |                     |                  | Fan Ø (mm) | Air flow (m³/h) |                            |             |                          | Series / Model | Air flow (m³/h) | ASP (Pa) <sup>(4)</sup> |
|             |                 |                |  |            |         | 0 °C                                 | -5 °C | -10 °C | -15 °C |                  |                     |                  |            |                 |                            |             |                          |                |                 |                         |
| R-134a      | 1x Semihermetic | MDV-TY-6 0131  |  | 13         | 4MF-13X | 29.4                                 | 24.2  | 19.4   | 15.2   | 8.2              | 3.4                 | 36               | 2x Ø 450   | 2x 4 750        | 1/2"-1 5/8"                | 367         | 36                       | MDV-TCY-6 0131 | 2x 4 800        | 160                     |
|             |                 | MDV-TY-6 0151  |  | 15         | 4ML-15X | 33.9                                 | 28.2  | 23.0   | 18.3   | 9.8              | 3.3                 | 40               | 2x Ø 450   | 2x 4 750        | 5/8"-1 5/8"                | 370         | 37                       | MDV-TCY-6 0151 | 2x 4 800        | 160                     |
|             |                 | MDV-TY-6 0201  |  | 20         | 4MM-20X | 36.5                                 | 30.4  | 25.0   | 20.0   | 10.9             | 3.2                 | 44               | 2x Ø 450   | 2x 4 750        | 5/8"-2 1/8"                | 372         | 38                       | MDV-TCY-6 0201 | 2x 4 800        | 160                     |
|             |                 | MDV-TY-6 0251  |  | 25         | 4MU-25X | 43.0                                 | 36.2  | 29.9   | 24.2   | 14.1             | 2.8                 | 57               | 2x Ø 450   | 2x 4 750        | 5/8"-2 1/8"                | 376         | 40                       | MDV-TCY-6 0251 | 2x 4 800        | 160                     |
|             |                 | MDV-TY-7 0301  |  | 30         | 6MM-30X | 55.6                                 | 46.2  | 37.8   | 30.1   | 16.6             | 3.1                 | 67               | 3x Ø 450   | 3x 4 750        | 7/8" - 2 1/8"              | 500         | 40                       | MDV-TCY-7 0301 | 2x 7 125        | 250                     |
|             |                 | MDV-TY-7 0351  |  | 35         | 6MT-35X | 60.7                                 | 50.8  | 41.8   | 33.6   | 18.8             | 3.0                 | 74               | 3x Ø 450   | 3x 4 750        | 3/4" - 2 5/8"              | 506         | 41                       | MDV-TCY-7 0351 | 2x 7 125        | 250                     |
|             |                 | MDV-TY-8 0351  |  | 35         | 6MT-35X | 64.8                                 | 53.7  | 43.8   | 34.7   | 19.5             | 3.2                 | 72               | 2x Ø 630   | 2x 10 000       | 3/4" - 2 5/8"              | 555         | 41                       | MDV-TCY-8 0351 | 2x 10 000       | 230                     |
| R-449A      | 1x Semihermetic | MDV-TG-7 0251  |  | 25         | 4MH-25X | 56.9                                 | 48.3  | 40.2   | 32.9   | 17.0             | 3.2                 | 49               | 3x Ø 450   | 3x 4 750        | 7/8"-2 1/8"                | 472         | 37                       | MDV-TCG-7 0251 | 2x 7 125        | 250                     |
|             |                 | MDV-TG-7 0301  |  | 30         | 4MI-30X | 61.4                                 | 52.4  | 43.9   | 36.2   | 18.9             | 3.1                 | 54               | 3x Ø 450   | 3x 4 750        | 7/8"-2 1/8"                | 473         | 38                       | MDV-TCG-7 0301 | 2x 7 125        | 250                     |
|             |                 | MDV-TG-8 0301  |  | 30         | 4MI-30X | 65.1                                 | 55.1  | 45.6   | 37.3   | 19.2             | 3.4                 | 51               | 2x Ø 630   | 2x 10 000       | 1 1/8"-2 1/8"              | 522         | 39                       | MDV-TCG-8 0301 | 2x 10 000       | 230                     |
|             |                 | MDV-TG-8 0351  |  | 35         | 4MK-35X | 77.5                                 | 66.0  | 55.1   | 45.3   | 25.0             | 3.0                 | 66               | 2x Ø 630   | 2x 10 000       | 1 1/8" - 2 1/8"            | 536         | 40                       | MDV-TCG-8 0351 | 2x 10 000       | 230                     |

400V 3N 50Hz | Negative temperature | Semihermetic compressor | R-449A

| Refrigerant | Compressor      | Axial version  |  | Compressor |         | Cooling capacity (kW) <sup>(1)</sup> |        |        |        | Input power (kW) | SEPR <sup>(2)</sup> | Max. current (A) | Condenser  |                 | Liq-Gas Cooling Connection | Weight (kg) | SPL dB(A) <sup>(3)</sup> | Radial version |                 |                         |
|-------------|-----------------|----------------|--|------------|---------|--------------------------------------|--------|--------|--------|------------------|---------------------|------------------|------------|-----------------|----------------------------|-------------|--------------------------|----------------|-----------------|-------------------------|
|             |                 | Series / Model |  | HP         | Model   | Average evaporating temperature      |        |        |        |                  |                     |                  | Fan Ø (mm) | Air flow (m³/h) |                            |             |                          | Series / Model | Air flow (m³/h) | ASP (Pa) <sup>(4)</sup> |
|             |                 |                |  |            |         | -20 °C                               | -25 °C | -30 °C | -35 °C |                  |                     |                  |            |                 |                            |             |                          |                |                 |                         |
| R-449A      | 1x Semihermetic | BDV-TG-6 0131  |  | 13         | 4MF-13X | 21.1                                 | 16.6   | 12.7   | 9.1    | 7.5              | 2.0                 | 35               | 2x Ø 450   | 2x 4 750        | 5/8"- 1 5/8"               | 367         | 36                       | BDV-TCG-6 0131 | 2x 4 800        | 160                     |
|             |                 | BDV-TG-6 0151  |  | 15         | 4ML-15X | 25.1                                 | 20.1   | 15.7   | 11.9   | 9.0              | 2.1                 | 40               | 2x Ø 450   | 2x 4 750        | 5/8"- 1 5/8"               | 370         | 37                       | BDV-TCG-6 0151 | 2x 4 800        | 160                     |
|             |                 | BDV-TG-6 0201  |  | 20         | 4MM-20X | 27.3                                 | 22.0   | 17.3   | 13.3   | 10.0             | 2.1                 | 44               | 2x Ø 450   | 2x 4 750        | 5/8"- 2 1/8"               | 372         | 38                       | BDV-TCG-6 0201 | 2x 4 800        | 160                     |
|             |                 | BDV-TG-6 0251  |  | 25         | 4MU-25X | 32.1                                 | 26.0   | 20.6   | 15.8   | 12.4             | 2.1                 | 57               | 2x Ø 450   | 2x 4 750        | 5/8"- 2 1/8"               | 376         | 40                       | BDV-TCG-6 0251 | 2x 4 800        | 160                     |
|             |                 | BDV-TG-7 0301  |  | 30         | 6MM-30X | 41.6                                 | 33.4   | 26.2   | 19.9   | 15.4             | 2.0                 | 67               | 3x Ø 450   | 3x 4 750        | 5/8" - 2 1/8"              | 500         | 40                       | BDV-TCG-7 0301 | 2x 7 125        | 250                     |
|             |                 | BDV-TG-7 0351  |  | 35         | 6MT-35X | 45.4                                 | 36.6   | 28.8   | 22.0   | 17.0             | 2.0                 | 74               | 3x Ø 450   | 3x 4 750        | 5/8" - 2 1/8"              | 506         | 41                       | BDV-TCG-7 0351 | 2x 7 125        | 250                     |
|             |                 | BDV-TG-7 0401  |  | 40         | 6MU-40X | 49.4                                 | 40.0   | 31.5   | 24.1   | 18.9             | 2.0                 | 83               | 3x Ø 450   | 3x 4 750        | 7/8" - 2 5/8"              | 510         | 42                       | BDV-TCG-7 0401 | 2x 7 125        | 250                     |

Options

- ▶ Anti-corrosion coil coating.
- ▶ Automatic emergency manoeuvre.
- ▶ Discharge check valve (radial version).
- ▶ Low voltage and phase change protection.
- ▶ Heat recovery (20 or 80 % condenser heat) for hot water generation.
- ▶ Radial electronic EC fans.
- ▶ Digital compressor control (B version).

<sup>(1)</sup> Conditions according to UNE-EN 13215: Ambient temp. 32 °C, average evaporating temp. of -10 °C (PT) and -35 °C (NT), SH = 10 K, refrigerant R-449A.

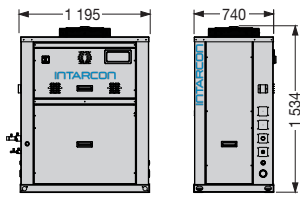
<sup>(2)</sup> Seasonal Performance Factor (SEPR) according to Commission Regulation (EU) 2015/1095.

<sup>(3)</sup> Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

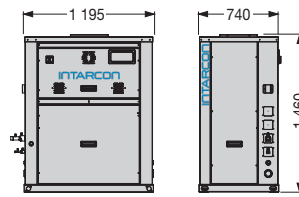
<sup>(4)</sup> Available static pressure condensation for air ducts.

## Dimensions

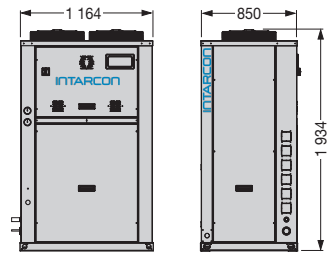
## 5 series - axial



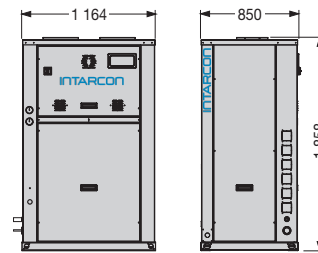
## 5 series - centrifugal



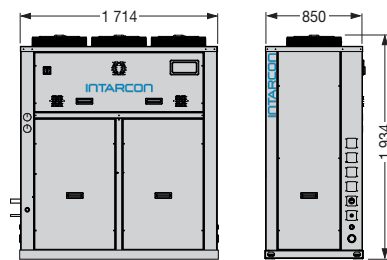
## 6 series - axial



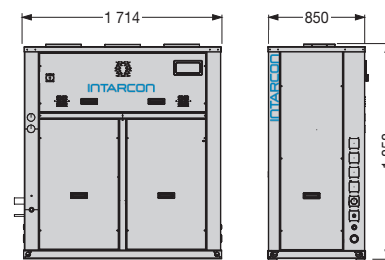
## 6 series - centrifugal or radial with vertical drive



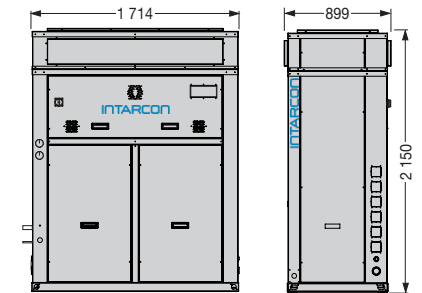
## 7 series - axial



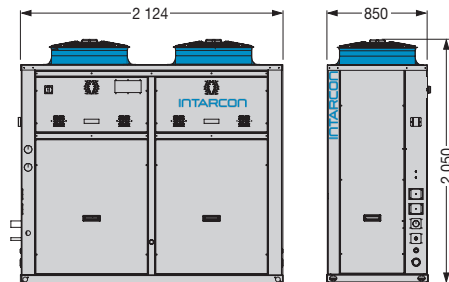
## 7 series - centrifugal



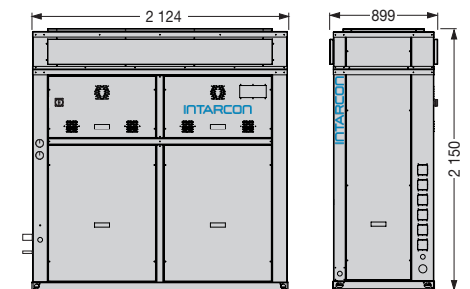
## 7 series - radial with vertical drive



## 8 series - axial



## 8 series - radial with vertical drive



Dimensions in mm.

## Electronic control

XC control for mini refrigeration units: intarCUBE condensing units are equipped with an electronic controller:

- ▶ Capacity control by suction pressure.
- ▶ Compressor and fan management with proportional condensation control.
- ▶ Low and high pressure transducers.
- ▶ Safety control.
- ▶ Optional emergency manoeuvre by means of adjustable pressure switches with manual or automatic activation.
- ▶ Evaporator solenoid permit.



## Optional

XM670K Control for cold room: intarCUBE units with one or two compressors can be equipped with joint control of evaporator and condensing unit.

- ▶ Capacity control by temperature, with management of up to 2 compressors or two power stages.
- ▶ Control of up to two independent defrosts for two evaporators in the same cold room.
- ▶ Proportional condensation control.
- ▶ Remote control.

