

redge<sup>®</sup> FORMERLY  
LENNOX



# ALLEGRA ALLEGRA ECM

Fan Coils Units



| ALLEGRA                                  | LSV                                                                                                                                                 | 5                                                        | 3                                            | 0                                                                                                                     | L                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>MODEL</b><br>ALLEGRA<br>ALLEGRA - ECM | <b>CASING</b><br>LSV - Vertical with Cabinet<br>LSH - Horizontal with Cabinet<br>LSB - Vertical with cabinet & intake grid<br>LSN - Without Cabinet | <b>SIZE</b><br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 | <b>MAIN COIL</b><br>3 - 3 rows<br>4 - 4 rows | <b>ADDITIONAL COIL</b><br>0 - 2 pipes (No additional coil)<br>+1 - 4 pipes + 1 row coil<br>+2 - 4 pipes + 2 rows coil | <b>HYDRAULIC CONNECTIONS</b><br>L - Left<br>R - Right |

## OUTER CASING

- # Made of galvanized and pre-painted steel casing.
  - # The plastic top grid has fixed louvres and is reversible in order to distribute the air in two different directions.
- Standard colours :
- # Top grid: **Pantone 427C (light grey)**
  - # Frontal panel : **RAL 9003 (white)**
  - # Other colours on request

## INNER CASING

- # It is made with 1 mm galvanized steel, insulated with 3 mm polyolefin (PO) foam (B-s2-d0 EN 13501-1).

## FAN ASSEMBLY

- # The fans have aluminium or plastic blades directly keyed on the motor with double aspiration and they are dynamically and statically balanced during manufacture in order to have an extremely quiet operation.

## ELECTRIC MOTOR

- # The motor is wired for single phase supply and has six speeds, three of which are connected, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings. Internal thermal protection with automatic reset, protection IP 20, class B.
- # The speeds connected in the factory are indicated by "MIN, MED and MAX" in the following tables.



## CONDENSATE COLLECTION TRAY

- # Made of plastic (ABS UL94 HB) with a “L”-shaped plastic fitted on the inner casing.
- # In the LSH-LSB and NC model the tray is insulated with 3 mm polyolefin (PO) foam B-s2-d0 EN 13501-1.
- # The outside diameter of the condensate discharge pipe is Ø 15 mm.



## COIL

- # It is manufactured from drawn copper tube and the aluminium fins are mechanically bonded onto the tube by an expansion process.
- # The coil has two Ø 1/2 inch BSP internal connections.
- # The coil has Ø 1/8" inch BSP air vent and drain.
- # The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.
- # The hydraulic connections are on the left side facing the unit.
- # On request we can deliver the unit with the connections on the right end side. This operation can also be easily carried out on the construction site during installation.

## FILTER

- # Polypropylene cellular fabric regenerating filter.
- # The filter frame of galvanized steel is inserted into special plastic sliding guides fastened to the internal structure for easy insertion and filter removal.
- # Filter presence is highlighted by a plastic front cover featuring the same colour as the top grid.

## 3 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

| MODEL                     |       | ALLEGRA 1.3-2T |      |      |      |      |      | ALLEGRA 2.3-2T |      |      |      |      |      | ALLEGRA 3.3-2T |      |      |      |      |      |
|---------------------------|-------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    |
|                           |       | MIN            |      |      | MED  |      | MAX  | MIN            |      | MED  |      | MAX  |      |                | MIN  | MED  |      | MAX  |      |
| Air flow                  | m³/h  | 105            | 125  | 150  | 175  | 195  | 220  | 145            | 170  | 220  | 250  | 295  | 340  | 185            | 235  | 270  | 325  | 385  | 440  |
| Cooling total emission    | kW    | 0,57           | 0,66 | 0,75 | 0,84 | 0,91 | 1,00 | 0,90           | 0,99 | 1,23 | 1,35 | 1,53 | 1,70 | 1,27           | 1,55 | 1,76 | 2,04 | 2,35 | 2,61 |
| Cooling sensible emission | kW    | 0,45           | 0,53 | 0,60 | 0,69 | 0,75 | 0,83 | 0,68           | 0,76 | 0,95 | 1,06 | 1,21 | 1,36 | 0,92           | 1,13 | 1,30 | 1,51 | 1,76 | 1,97 |
| Heating emission          | kW    | 0,64           | 0,76 | 0,86 | 0,98 | 1,07 | 1,19 | 0,94           | 1,06 | 1,34 | 1,49 | 1,70 | 1,92 | 1,26           | 1,56 | 1,79 | 2,10 | 2,44 | 2,74 |
| Dp Cooling                | kPa   | 2,5            | 3,0  | 3,8  | 4,7  | 5,4  | 6,3  | 2,5            | 3,0  | 4,4  | 5,3  | 6,5  | 7,9  | 6,6            | 9,4  | 11,8 | 15,3 | 19,7 | 23,8 |
| Dp Heating                | kPa   | 0,9            | 1,1  | 1,4  | 1,8  | 2,1  | 2,5  | 2,2            | 2,8  | 4,2  | 5,0  | 6,4  | 7,9  | 5,4            | 7,8  | 10,0 | 13,2 | 17,1 | 21,0 |
| Fan                       | W     | 16,0           | 19,0 | 21,0 | 25,0 | 29,0 | 33,0 | 14,0           | 16,0 | 22,0 | 26,0 | 32,0 | 40,0 | 15,0           | 20,0 | 25,0 | 32,0 | 41,0 | 49,0 |
| Sound power (Lw)          | dB(A) | 32             | 34   | 36   | 39   | 42   | 45   | 30             | 33   | 40   | 43   | 47   | 51   | 31             | 36   | 40   | 45   | 49   | 52   |
| Sound pressure (Lp) (1)   | dB(A) | 23             | 25   | 27   | 30   | 33   | 36   | 21             | 24   | 31   | 34   | 38   | 42   | 22             | 27   | 31   | 36   | 40   | 43   |

| MODEL                     |       | ALLEGRA 4.3-2T |      |      |      |      |      | ALLEGRA 5.3-2T |      |      |      |      |      | ALLEGRA 6.3-2T |      |      |      |      |      |
|---------------------------|-------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    |
|                           |       |                | MIN  | MED  |      | MAX  |      |                | MIN  |      | MED  |      | MAX  | MIN            |      | MED  |      | MAX  |      |
| Air flow                  | m³/h  | 185            | 265  | 335  | 400  | 485  | 570  | 250            | 315  | 420  | 495  | 545  | 650  | 415            | 505  | 590  | 680  | 760  | 830  |
| Cooling total emission    | kW    | 1,25           | 1,71 | 2,11 | 2,43 | 2,83 | 3,19 | 1,66           | 2,01 | 2,55 | 2,90 | 3,13 | 3,58 | 2,50           | 2,94 | 3,32 | 3,70 | 4,01 | 4,26 |
| Cooling sensible emission | kW    | 0,91           | 1,26 | 1,57 | 1,82 | 2,15 | 2,45 | 1,22           | 1,49 | 1,91 | 2,19 | 2,38 | 2,76 | 1,87           | 2,23 | 2,54 | 2,86 | 3,12 | 3,35 |
| Heating emission          | kW    | 1,25           | 1,74 | 2,18 | 2,52 | 2,97 | 3,41 | 1,65           | 2,02 | 2,61 | 3,00 | 3,24 | 3,75 | 2,56           | 3,05 | 3,45 | 3,90 | 4,26 | 4,56 |
| Dp Cooling                | kPa   | 6,5            | 11,2 | 16,2 | 20,8 | 27,2 | 33,8 | 4,1            | 5,8  | 8,8  | 11,1 | 12,7 | 16,2 | 8,6            | 11,4 | 14,1 | 17,2 | 19,8 | 22,1 |
| Dp Heating                | kPa   | 5,3            | 9,5  | 14,0 | 18,2 | 24,3 | 30,8 | 3,4            | 4,8  | 7,5  | 9,6  | 11,0 | 14,2 | 7,3            | 9,9  | 12,3 | 15,2 | 17,8 | 20,1 |
| Fan                       | W     | 14,0           | 21,0 | 28,0 | 34,0 | 44,0 | 57,0 | 18,0           | 22,0 | 32,0 | 39,0 | 46,0 | 61,0 | 37,0           | 46,0 | 55,0 | 67,0 | 78,0 | 88,0 |
| Sound power (Lw)          | dB(A) | 27             | 33   | 39   | 43   | 47   | 52   | 26             | 31   | 37   | 41   | 43   | 48   | 37             | 42   | 46   | 49   | 52   | 54   |
| Sound pressure (Lp) (1)   | dB(A) | 18             | 24   | 30   | 34   | 38   | 43   | 17             | 22   | 28   | 32   | 34   | 39   | 28             | 33   | 37   | 40   | 43   | 45   |

| MODEL                     |       | ALLEGRA 7.3-2T |      |      |      |      |       | ALLEGRA 8.3-2T |      |      |       |       |       | ALLEGRA 9.3-2T |      |       |       |       |       |
|---------------------------|-------|----------------|------|------|------|------|-------|----------------|------|------|-------|-------|-------|----------------|------|-------|-------|-------|-------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6     | 1              | 2    | 3    | 4     | 5     | 6     | 1              | 2    | 3     | 4     | 5     | 6     |
|                           |       |                | MIN  |      | MED  |      | MAX   |                | MIN  |      | MED   |       | MAX   |                | MIN  |       | MED   |       | MAX   |
| Air flow                  | m³/h  | 445            | 535  | 630  | 735  | 840  | 925   | 510            | 655  | 815  | 1020  | 1100  | 1200  | 735            | 830  | 980   | 1210  | 1365  | 1500  |
| Cooling total emission    | kW    | 2,82           | 3,29 | 3,74 | 4,21 | 4,66 | 5,01  | 3,01           | 3,68 | 4,32 | 5,09  | 5,36  | 5,69  | 4,00           | 4,38 | 4,95  | 5,74  | 6,21  | 6,56  |
| Cooling sensible emission | kW    | 2,08           | 2,45 | 2,80 | 3,19 | 3,56 | 3,85  | 2,27           | 2,82 | 3,35 | 4,02  | 4,26  | 4,55  | 3,08           | 3,40 | 3,89  | 4,60  | 5,03  | 5,37  |
| Heating emission          | kW    | 2,83           | 3,34 | 3,83 | 4,33 | 4,83 | 5,23  | 3,22           | 4,02 | 4,78 | 5,75  | 6,11  | 6,55  | 4,42           | 4,86 | 5,58  | 6,62  | 7,26  | 7,78  |
| Dp Cooling                | kPa   | 12,3           | 16,2 | 20,3 | 25,1 | 30,1 | 34,2  | 7,2            | 10,3 | 13,8 | 18,4  | 20,2  | 22,5  | 11,8           | 13,8 | 17,3  | 22,4  | 25,9  | 28,6  |
| Dp Heating                | kPa   | 10,1           | 13,5 | 17,2 | 21,3 | 25,9 | 29,7  | 5,6            | 8,3  | 11,3 | 15,6  | 17,3  | 19,6  | 12,9           | 16,2 | 21,1  | 27,8  | 33,0  | 37,0  |
| Fan                       | W     | 44,0           | 54,0 | 66,0 | 79,0 | 92,0 | 103,0 | 47,0           | 62,0 | 81,0 | 105,0 | 116,0 | 130,0 | 78,0           | 92,0 | 108,0 | 134,0 | 152,0 | 176,0 |
| Sound power (Lw)          | dB(A) | 38             | 42   | 47   | 51   | 54   | 56    | 39             | 45   | 50   | 56    | 58    | 60    | 47             | 50   | 54    | 58    | 62    | 64    |
| Sound pressure (Lp) (1)   | dB(A) | 29             | 33   | 38   | 42   | 45   | 47    | 30             | 36   | 41   | 47    | 49    | 51    | 38             | 41   | 45    | 49    | 53    | 55    |

<sup>(1)</sup> The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

MIN-MED-MAX = Speeds connected in the factory

## 4 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

| MODEL                     |       | ALLEGRA 1.4-2T |      |      |      |      |      | ALLEGRA 2.4-2T |      |      |      |      |      | ALLEGRA 3.4-2T |      |      |      |      |      |
|---------------------------|-------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    |
|                           |       | MIN            |      |      | MED  |      | MAX  | MIN            |      | MED  |      | MAX  |      |                | MIN  | MED  |      | MAX  |      |
| Air flow                  | m³/h  | 105            | 125  | 150  | 175  | 195  | 220  | 145            | 170  | 220  | 250  | 295  | 340  | 185            | 235  | 270  | 325  | 385  | 440  |
| Cooling total emission    | kW    | 0,65           | 0,77 | 0,87 | 1,00 | 1,08 | 1,20 | 1,00           | 1,11 | 1,41 | 1,56 | 1,78 | 2,00 | 1,32           | 1,63 | 1,87 | 2,17 | 2,53 | 2,83 |
| Cooling sensible emission | kW    | 0,49           | 0,58 | 0,66 | 0,77 | 0,84 | 0,94 | 0,73           | 0,82 | 1,05 | 1,17 | 1,35 | 1,53 | 0,95           | 1,18 | 1,36 | 1,59 | 1,86 | 2,09 |
| Heating emission          | kW    | 0,69           | 0,80 | 0,92 | 1,07 | 1,17 | 1,31 | 0,99           | 1,11 | 1,43 | 1,60 | 1,83 | 2,08 | 1,30           | 1,62 | 1,87 | 2,19 | 2,59 | 2,88 |
| Dp Cooling                | kPa   | 1,9            | 2,5  | 3,2  | 4,0  | 4,7  | 5,6  | 4,9            | 6,1  | 9,1  | 11,0 | 13,9 | 17,2 | 3,7            | 5,3  | 6,7  | 8,8  | 11,5 | 14,1 |
| Dp Heating                | kPa   | 1,7            | 2,2  | 2,8  | 3,7  | 4,3  | 5,3  | 4,0            | 4,9  | 7,6  | 9,3  | 11,8 | 14,8 | 2,8            | 4,2  | 5,4  | 7,1  | 9,8  | 11,5 |
| Fan                       | W     | 16,0           | 19,0 | 21,0 | 25,0 | 29,0 | 33,0 | 14,0           | 16,0 | 22,0 | 26,0 | 32,0 | 40,0 | 15,0           | 20,0 | 25,0 | 32,0 | 41,0 | 49,0 |
| Sound power (Lw)          | dB(A) | 32             | 34   | 36   | 39   | 42   | 45   | 30             | 33   | 40   | 43   | 47   | 51   | 31             | 36   | 40   | 45   | 49   | 52   |
| Sound pressure (Lp) (1)   | dB(A) | 23             | 25   | 27   | 30   | 33   | 36   | 21             | 24   | 31   | 34   | 38   | 42   | 22             | 27   | 31   | 36   | 40   | 43   |

| MODEL                     |       | ALLEGRA 4.4-2T |      |      |      |      |      | ALLEGRA 5.4-2T |      |      |      |      |      | ALLEGRA 6.4-2T |      |      |      |      |      |
|---------------------------|-------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    |
|                           |       |                | MIN  |      | MED  |      | MAX  |                | MIN  |      | MED  |      | MAX  | MIN            |      | MED  |      | MAX  |      |
| Air flow                  | m³/h  | 185            | 265  | 335  | 400  | 485  | 570  | 250            | 315  | 420  | 495  | 545  | 650  | 415            | 505  | 590  | 680  | 760  | 830  |
| Cooling total emission    | kW    | 1,31           | 1,81 | 2,25 | 2,62 | 3,08 | 3,50 | 1,77           | 2,17 | 2,79 | 3,21 | 3,49 | 4,03 | 2,79           | 3,34 | 3,81 | 4,31 | 4,71 | 5,04 |
| Cooling sensible emission | kW    | 0,86           | 1,21 | 1,51 | 1,78 | 2,10 | 2,39 | 1,28           | 1,58 | 2,04 | 2,36 | 2,58 | 3,01 | 2,03           | 2,45 | 2,81 | 3,20 | 3,52 | 3,79 |
| Heating emission          | kW    | 1,28           | 1,80 | 2,27 | 2,64 | 3,14 | 3,62 | 1,71           | 2,10 | 2,74 | 3,16 | 3,46 | 4,01 | 2,82           | 3,39 | 3,90 | 4,46 | 4,92 | 5,31 |
| Dp Cooling                | kPa   | 3,4            | 6,1  | 9,0  | 11,7 | 15,5 | 19,6 | 7,3            | 10,4 | 16,3 | 20,8 | 24,2 | 31,3 | 14,4           | 19,7 | 24,8 | 30,9 | 36,2 | 40,9 |
| Dp Heating                | kPa   | 2,6            | 5,0  | 7,2  | 9,4  | 12,8 | 16,4 | 5,6            | 8,1  | 12,9 | 16,6 | 19,5 | 25,2 | 11,9           | 16,5 | 21,1 | 26,8 | 31,8 | 36,3 |
| Fan                       | W     | 14,0           | 21,0 | 28,0 | 34,0 | 44,0 | 57,0 | 18,0           | 22,0 | 32,0 | 39,0 | 46,0 | 61,0 | 37,0           | 46,0 | 55,0 | 67,0 | 78,0 | 88,0 |
| Sound power (Lw)          | dB(A) | 27             | 33   | 39   | 43   | 47   | 52   | 26             | 31   | 37   | 41   | 43   | 48   | 37             | 42   | 46   | 49   | 52   | 54   |
| Sound pressure (Lp) (1)   | dB(A) | 18             | 24   | 30   | 34   | 38   | 43   | 17             | 22   | 28   | 32   | 34   | 39   | 28             | 33   | 37   | 40   | 43   | 45   |

| MODEL                     |       | ALLEGRA 7.4-2T |      |      |      |      |       | ALLEGRA 8.4-2T |      |      |       |       |       | ALLEGRA 9.4-2T |      |       |       |       |       |
|---------------------------|-------|----------------|------|------|------|------|-------|----------------|------|------|-------|-------|-------|----------------|------|-------|-------|-------|-------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6     | 1              | 2    | 3    | 4     | 5     | 6     | 1              | 2    | 3     | 4     | 5     | 6     |
|                           |       |                | MIN  |      | MED  |      | MAX   |                | MIN  |      | MED   |       | MAX   |                | MIN  |       | MED   |       | MAX   |
| Air flow                  | m³/h  | 445            | 535  | 630  | 735  | 840  | 925   | 510            | 655  | 815  | 1020  | 1100  | 1200  | 735            | 830  | 980   | 1210  | 1365  | 1500  |
| Cooling total emission    | kW    | 2,99           | 3,51 | 4,01 | 4,56 | 5,08 | 5,48  | 3,22           | 3,97 | 4,72 | 5,63  | 5,94  | 6,34  | 4,34           | 4,79 | 5,45  | 6,41  | 6,98  | 7,42  |
| Cooling sensible emission | kW    | 2,18           | 2,57 | 2,96 | 3,39 | 3,80 | 4,13  | 2,38           | 2,98 | 3,58 | 4,33  | 4,59  | 4,93  | 3,28           | 3,63 | 4,18  | 4,98  | 5,48  | 5,87  |
| Heating emission          | kW    | 2,95           | 3,49 | 4,03 | 4,62 | 5,15 | 5,59  | 3,37           | 4,26 | 5,14 | 6,27  | 6,60  | 7,20  | 4,70           | 5,23 | 6,01  | 7,18  | 7,93  | 8,52  |
| Dp Cooling                | kPa   | 9,5            | 12,5 | 15,9 | 20,0 | 24,2 | 27,7  | 9,6            | 14,0 | 19,0 | 26,0  | 28,6  | 32,2  | 8,9            | 10,6 | 13,4  | 17,8  | 20,7  | 23,2  |
| Dp Heating                | kPa   | 7,5            | 10,1 | 13,1 | 16,6 | 20,1 | 23,2  | 8,5            | 12,8 | 17,9 | 24,9  | 27,8  | 31,7  | 8,3            | 10,0 | 12,8  | 17,6  | 20,9  | 23,7  |
| Fan                       | W     | 44,0           | 54,0 | 66,0 | 79,0 | 92,0 | 103,0 | 47,0           | 62,0 | 81,0 | 105,0 | 116,0 | 130,0 | 78,0           | 92,0 | 108,0 | 134,0 | 152,0 | 176,0 |
| Sound power (Lw)          | dB(A) | 38             | 42   | 47   | 51   | 54   | 56    | 39             | 45   | 50   | 56    | 58    | 60    | 47             | 50   | 54    | 58    | 62    | 64    |
| Sound pressure (Lp) (1)   | dB(A) | 29             | 33   | 38   | 42   | 45   | 47    | 30             | 36   | 41   | 47    | 49    | 51    | 38             | 41   | 45    | 49    | 53    | 55    |

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.  
MIN-MED-MAX = Speeds connected in the factory

## 3+1 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

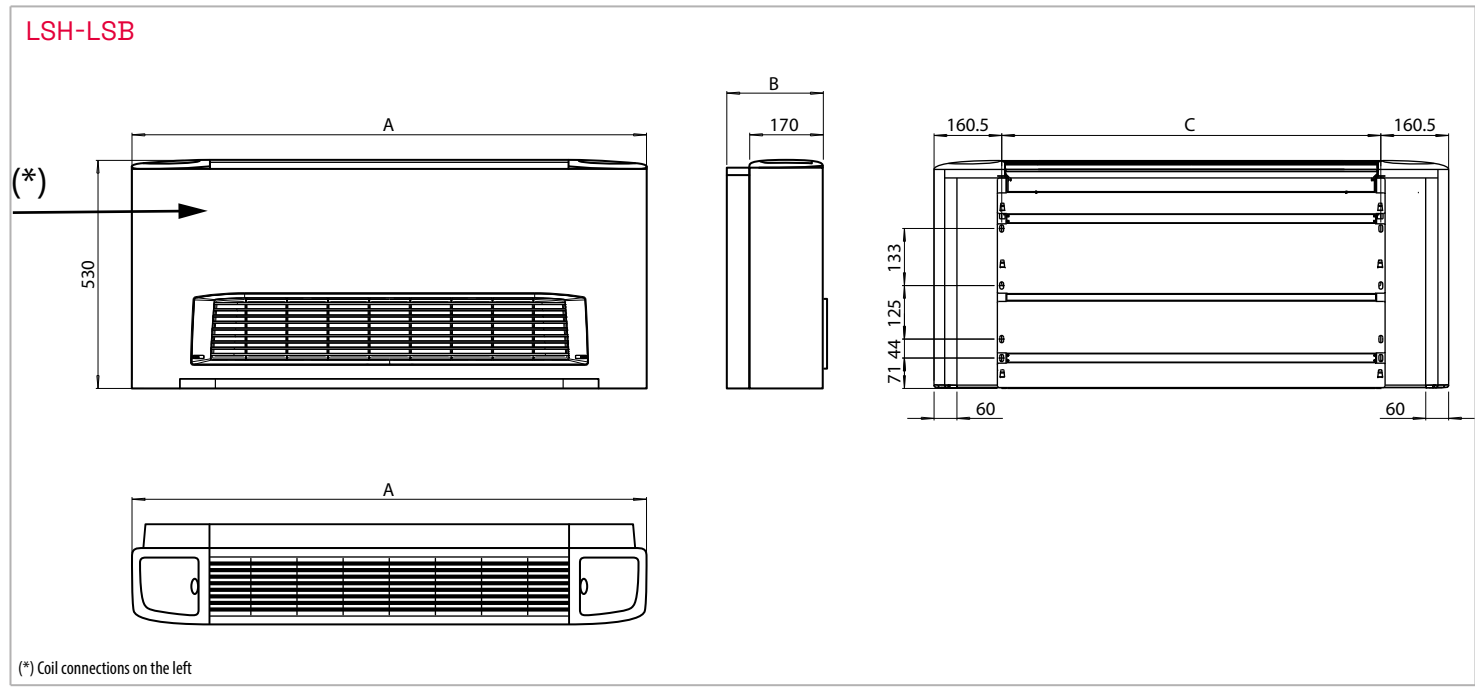
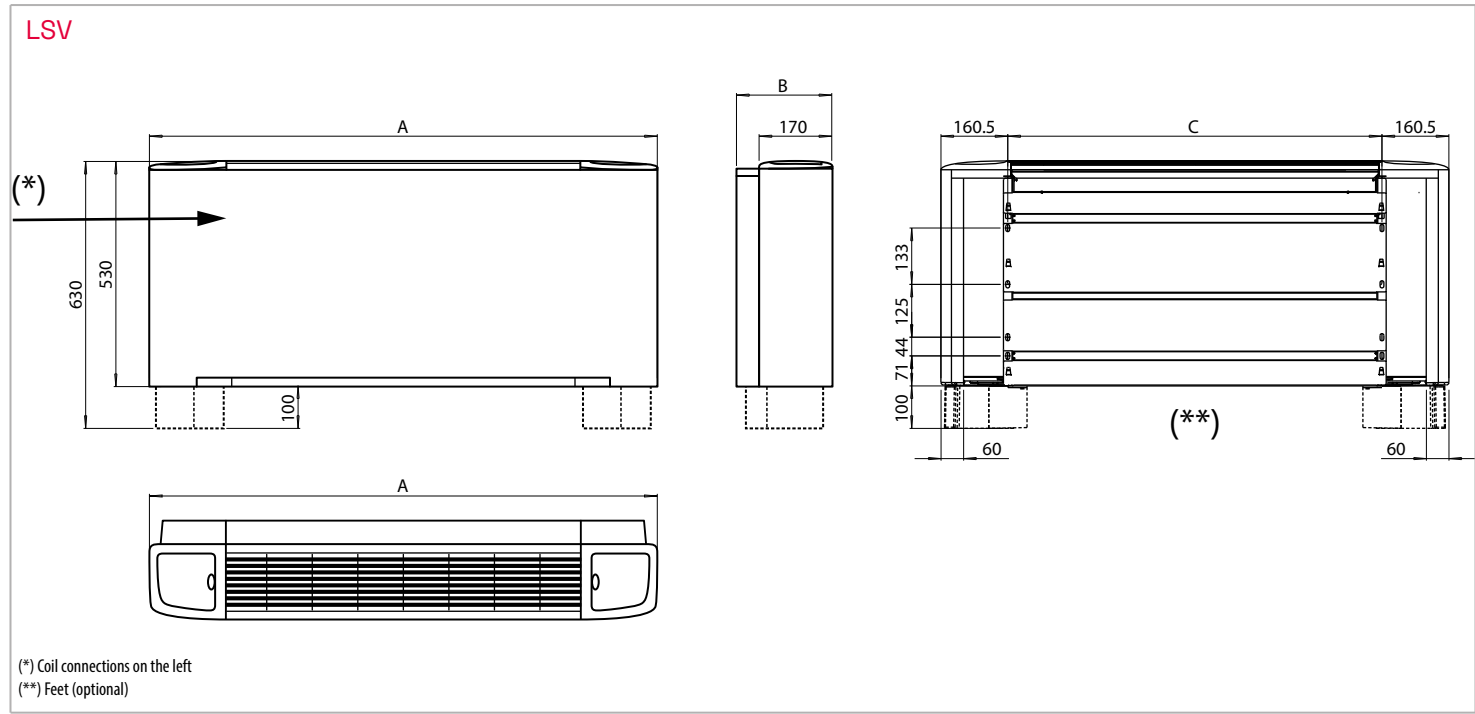
Water temperature: +65 °C E.W.T. +55 °C L.W.T.

| MODEL                     |       | ALLEGRA 1.3-4T |      |      |      |      |      | ALLEGRA 2.3-4T |      |      |      |      |      | ALLEGRA 3.3-4T |      |      |      |      |      |
|---------------------------|-------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    |
|                           |       | MIN            |      |      | MED  |      | MAX  | MIN            |      | MED  |      | MAX  |      |                | MIN  | MED  |      | MAX  |      |
| Air flow                  | m³/h  | 105            | 125  | 150  | 175  | 195  | 220  | 145            | 170  | 220  | 250  | 295  | 340  | 185            | 235  | 270  | 325  | 385  | 440  |
| Cooling total emission    | kW    | 0,57           | 0,66 | 0,75 | 0,84 | 0,91 | 1,00 | 0,90           | 0,99 | 1,23 | 1,35 | 1,53 | 1,70 | 1,27           | 1,55 | 1,76 | 2,04 | 2,35 | 2,61 |
| Cooling sensible emission | kW    | 0,45           | 0,53 | 0,60 | 0,69 | 0,75 | 0,83 | 0,68           | 0,76 | 0,95 | 1,06 | 1,21 | 1,36 | 0,92           | 1,13 | 1,30 | 1,51 | 1,76 | 1,97 |
| Heating emission          | kW    | 0,55           | 0,62 | 0,69 | 0,77 | 0,83 | 0,91 | 0,83           | 0,91 | 1,09 | 1,19 | 1,33 | 1,47 | 1,19           | 1,40 | 1,56 | 1,76 | 1,99 | 2,18 |
| Dp Cooling                | kPa   | 0,9            | 1,1  | 1,4  | 1,7  | 2,0  | 2,3  | 2,5            | 3,0  | 4,4  | 5,3  | 6,5  | 7,9  | 6,6            | 9,4  | 11,8 | 15,3 | 19,7 | 23,8 |
| Dp Heating                | kPa   | 0,5            | 0,7  | 0,8  | 1,0  | 1,1  | 1,3  | 1,3            | 1,6  | 2,2  | 2,5  | 3,1  | 3,7  | 3,2            | 4,2  | 5,1  | 6,3  | 7,8  | 9,2  |
| Fan                       | W     | 16,0           | 19,0 | 21,0 | 25,0 | 29,0 | 33,0 | 14,0           | 16,0 | 22,0 | 26,0 | 32,0 | 40,0 | 15,0           | 20,0 | 25,0 | 32,0 | 41,0 | 49,0 |
| Sound power (Lw)          | dB(A) | 32             | 34   | 36   | 39   | 42   | 45   | 30             | 33   | 40   | 43   | 47   | 51   | 31             | 36   | 40   | 45   | 49   | 52   |
| Sound pressure (Lp) (1)   | dB(A) | 23             | 25   | 27   | 30   | 33   | 36   | 21             | 24   | 31   | 34   | 38   | 42   | 22             | 27   | 31   | 36   | 40   | 43   |

| MODEL                     |       | ALLEGRA 4.3-4T |      |      |      |      |      | ALLEGRA 5.3-4T |      |      |      |      |      | ALLEGRA 6.3-4T |      |      |      |      |      |
|---------------------------|-------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|----------------|------|------|------|------|------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    | 1              | 2    | 3    | 4    | 5    | 6    |
|                           |       |                | MIN  | MED  |      | MAX  |      |                | MIN  |      | MED  |      | MAX  | MIN            |      | MED  |      | MAX  |      |
| Air flow                  | m³/h  | 185            | 265  | 335  | 400  | 485  | 570  | 250            | 315  | 420  | 495  | 545  | 650  | 415            | 505  | 590  | 680  | 760  | 830  |
| Cooling total emission    | kW    | 1,25           | 1,71 | 2,11 | 2,43 | 2,83 | 3,19 | 1,66           | 2,01 | 2,55 | 2,90 | 3,13 | 3,58 | 2,50           | 2,94 | 3,32 | 3,70 | 4,01 | 4,26 |
| Cooling sensible emission | kW    | 0,91           | 1,26 | 1,57 | 1,82 | 2,15 | 2,45 | 1,22           | 1,49 | 1,91 | 2,19 | 2,39 | 2,76 | 1,87           | 2,23 | 2,54 | 2,86 | 3,12 | 3,35 |
| Heating emission          | kW    | 1,18           | 1,52 | 1,81 | 2,04 | 2,33 | 2,60 | 1,55           | 1,84 | 2,22 | 2,50 | 2,66 | 3,00 | 2,19           | 2,51 | 2,79 | 3,09 | 3,33 | 3,53 |
| Dp Cooling                | kPa   | 6,5            | 11,2 | 16,2 | 20,8 | 27,2 | 33,8 | 5,4            | 7,6  | 11,5 | 14,6 | 16,7 | 21,1 | 8,6            | 11,4 | 14,1 | 17,2 | 19,8 | 22,1 |
| Dp Heating                | kPa   | 3,8            | 6,0  | 8,0  | 10,0 | 12,5 | 15,3 | 1,0            | 1,3  | 1,9  | 2,3  | 2,6  | 3,2  | 1,8            | 2,3  | 2,8  | 3,3  | 3,8  | 4,2  |
| Fan                       | W     | 14,0           | 21,0 | 28,0 | 34,0 | 44,0 | 57,0 | 18,0           | 22,0 | 32,0 | 39,0 | 46,0 | 61,0 | 37,0           | 46,0 | 55,0 | 67,0 | 78,0 | 88,0 |
| Sound power (Lw)          | dB(A) | 27             | 33   | 39   | 43   | 47   | 52   | 26             | 31   | 37   | 41   | 43   | 48   | 37             | 42   | 46   | 49   | 52   | 54   |
| Sound pressure (Lp) (1)   | dB(A) | 18             | 24   | 30   | 34   | 38   | 43   | 17             | 22   | 28   | 32   | 34   | 39   | 28             | 33   | 37   | 40   | 43   | 45   |

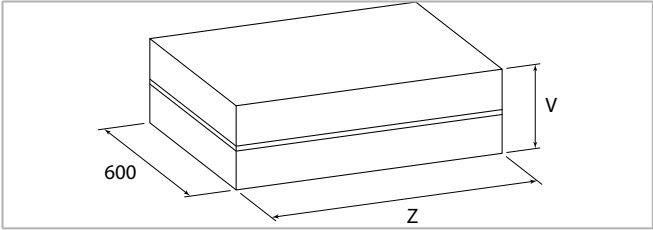
| MODEL                     |       | ALLEGRA 7.3-4T |      |      |      |      |       | ALLEGRA 8.3-4T |      |      |       |       |       | ALLEGRA 9.3-4T |      |       |       |       |       |
|---------------------------|-------|----------------|------|------|------|------|-------|----------------|------|------|-------|-------|-------|----------------|------|-------|-------|-------|-------|
| SPEED                     |       | 1              | 2    | 3    | 4    | 5    | 6     | 1              | 2    | 3    | 4     | 5     | 6     | 1              | 2    | 3     | 4     | 5     | 6     |
|                           |       |                | MIN  |      | MED  |      | MAX   |                | MIN  |      | MED   |       | MAX   |                | MIN  |       | MED   |       | MAX   |
| Air flow                  | m³/h  | 445            | 535  | 630  | 735  | 840  | 925   | 510            | 655  | 815  | 1020  | 1100  | 1200  | 735            | 830  | 980   | 1210  | 1365  | 1500  |
| Cooling total emission    | kW    | 2,82           | 3,29 | 3,74 | 4,21 | 4,66 | 5,01  | 3,01           | 3,68 | 4,32 | 5,09  | 5,36  | 5,69  | 4,00           | 4,38 | 4,95  | 5,74  | 6,21  | 6,56  |
| Cooling sensible emission | kW    | 2,08           | 2,45 | 2,80 | 3,19 | 3,56 | 3,85  | 2,27           | 2,82 | 3,35 | 4,02  | 4,26  | 4,55  | 3,08           | 3,40 | 3,89  | 4,60  | 5,03  | 5,37  |
| Heating emission          | kW    | 2,54           | 2,89 | 3,23 | 3,59 | 3,94 | 4,20  | 2,66           | 3,16 | 3,66 | 4,26  | 4,48  | 4,75  | 3,41           | 3,71 | 4,15  | 4,79  | 5,17  | 5,46  |
| Dp Cooling                | kPa   | 12,3           | 16,2 | 20,3 | 25,1 | 30,1 | 34,2  | 7,2            | 10,3 | 13,8 | 18,4  | 20,2  | 22,5  | 12,5           | 14,6 | 18,2  | 23,6  | 27,3  | 30,1  |
| Dp Heating                | kPa   | 2,8            | 3,5  | 4,2  | 5,1  | 6,0  | 6,7   | 3,0            | 4,1  | 5,3  | 6,9   | 7,5   | 8,3   | 4,7            | 5,4  | 6,6   | 8,5   | 9,7   | 10,7  |
| Fan                       | W     | 44,0           | 54,0 | 66,0 | 79,0 | 92,0 | 103,0 | 47,0           | 62,0 | 81,0 | 105,0 | 116,0 | 130,0 | 78,0           | 92,0 | 108,0 | 134,0 | 152,0 | 176,0 |
| Sound power (Lw)          | dB(A) | 38             | 42   | 47   | 51   | 54   | 56    | 39             | 45   | 50   | 56    | 58    | 60    | 47             | 50   | 54    | 58    | 62    | 64    |
| Sound pressure (Lp) (1)   | dB(A) | 29             | 33   | 38   | 42   | 45   | 47    | 30             | 36   | 41   | 47    | 49    | 51    | 38             | 41   | 45    | 49    | 53    | 55    |

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.  
MIN-MED-MAX = Speeds connected in the factory



| MODEL |    | ALLEGRA 1 | ALLEGRA 2 | ALLEGRA 3 | ALLEGRA 4 | ALLEGRA 5 | ALLEGRA 6 | ALLEGRA 7 | ALLEGRA 8 | ALLEGRA 9 |
|-------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A     | mm | 675       | 775       | 990       |           | 1205      |           | 1420      |           |           |
| B     | mm | 225       |           |           |           |           |           |           | 255       |           |
| C     | mm | 354       | 454       | 669       |           | 884       |           | 1099      |           |           |

PACKED UNIT



| MODEL |    | 1   | 2   | 3    | 4 | 5    | 6 | 7    | 8   | 9 |
|-------|----|-----|-----|------|---|------|---|------|-----|---|
| V     | mm | 260 |     |      |   |      |   |      | 290 |   |
| Z     | mm | 720 | 820 | 1035 |   | 1250 |   | 1465 |     |   |

WEIGHT (KG)

Weight with packaging

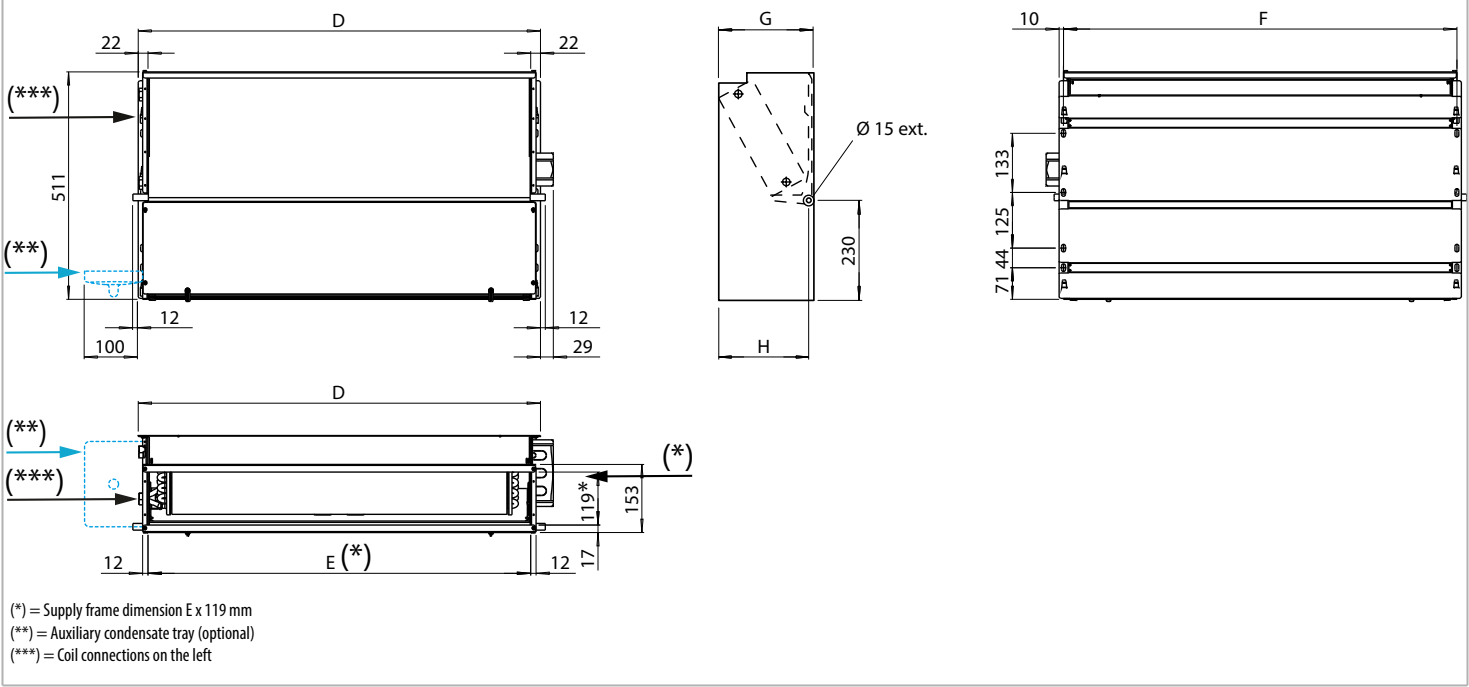
| MODEL    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
|----------|------|------|------|------|------|------|------|------|------|
| 3 rows   | 15,5 | 17,2 | 21,4 | 22,5 | 26,9 | 27,7 | 32,1 | 35,7 | 35,9 |
| 3+1 rows | 16,2 | 18,0 | 22,6 | 23,7 | 28,4 | 29,2 | 33,9 | 37,5 | 37,7 |
| 3+2 rows | 16,7 | 18,6 | 23,3 | 24,4 | 29,3 | 30,1 | 35,0 | 38,6 | 38,8 |
| 4 rows   | 16,0 | 18,0 | 22,4 | 23,5 | 28,1 | 29,0 | 33,6 | 37,2 | 37,4 |
| 4+1 rows | 16,7 | 18,8 | 23,6 | 24,7 | 29,6 | 30,5 | 35,4 | 39,0 | 39,2 |

Weight without packaging

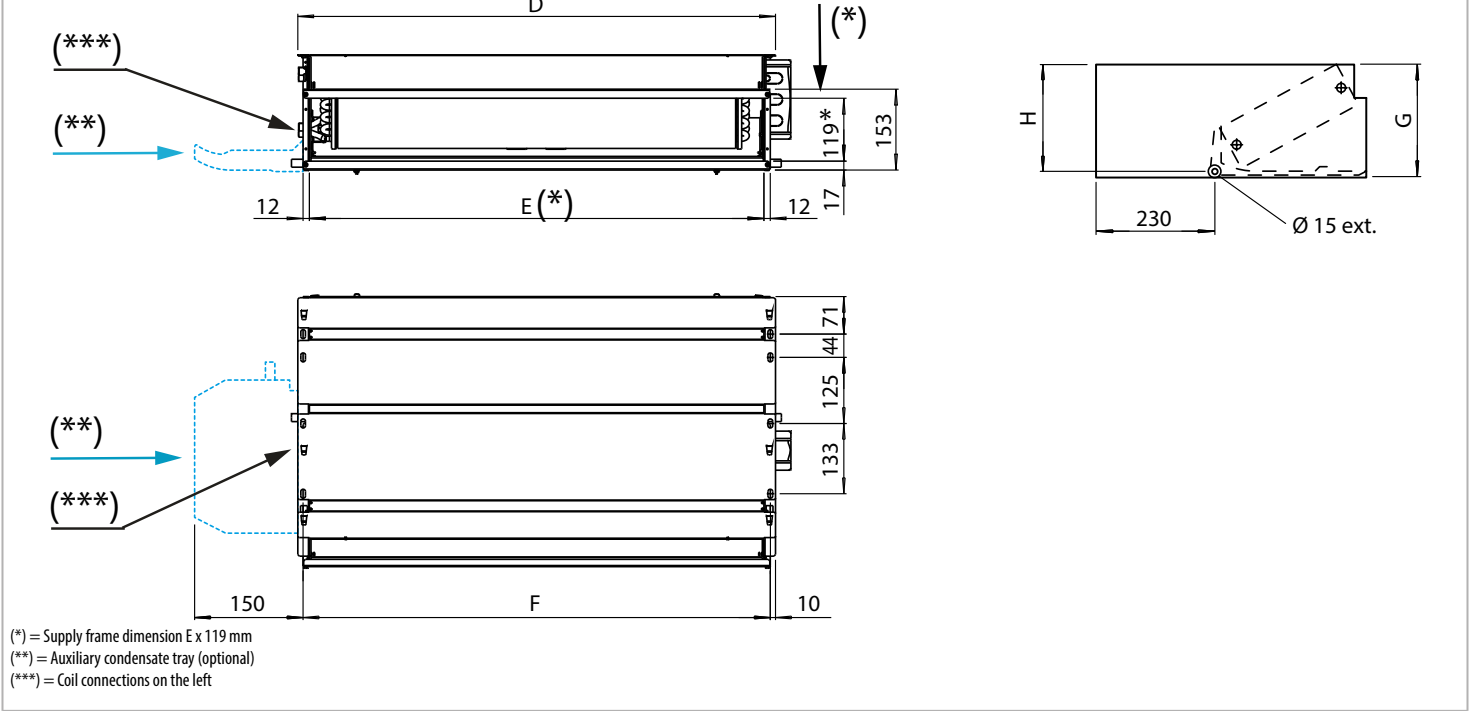
| MODEL    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
|----------|------|------|------|------|------|------|------|------|------|
| 3 rows   | 13,9 | 15,4 | 19,1 | 20,2 | 24,1 | 24,9 | 28,8 | 32,0 | 32,2 |
| 3+1 rows | 14,6 | 16,2 | 20,3 | 21,4 | 25,6 | 26,4 | 30,6 | 33,8 | 34,0 |
| 3+2 rows | 15,1 | 16,8 | 21,0 | 22,1 | 26,5 | 27,3 | 31,7 | 34,9 | 35,1 |
| 4 rows   | 14,4 | 16,2 | 20,1 | 21,2 | 25,3 | 26,2 | 30,3 | 33,5 | 33,7 |
| 4+1 rows | 15,1 | 17,0 | 21,3 | 22,4 | 26,8 | 27,7 | 32,1 | 35,3 | 35,5 |



LSN VERTICAL INSTALLATION

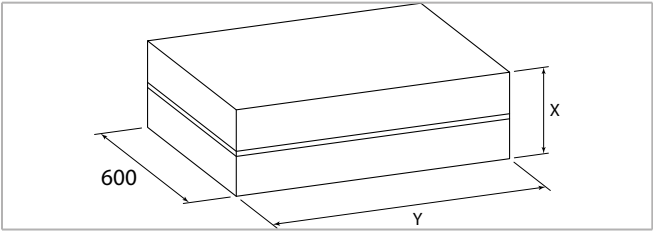


LSN HORIZONTAL INSTALLATION



| MODEL |    | ALLEGRA 1 | ALLEGRA 2 | ALLEGRA 3 | ALLEGRA 4 | ALLEGRA 5 | ALLEGRA 6 | ALLEGRA 7 | ALLEGRA 8 | ALLEGRA 9 |
|-------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| D     | mm | 374       | 474       | 689       |           | 904       |           |           | 1119      |           |
| E     | mm | 330       | 430       | 645       |           | 860       |           |           | 1075      |           |
| F     | mm | 354       | 454       | 669       |           | 884       |           |           | 1099      |           |

PACKED UNIT



| MODEL |    | 1   | 2   | 3 | 4 | 5    | 6 | 7    | 8   | 9 |
|-------|----|-----|-----|---|---|------|---|------|-----|---|
| X     | mm | 260 |     |   |   |      |   |      | 290 |   |
| Y     | mm | 720 | 820 |   |   | 1035 |   | 1250 |     |   |

WEIGHT (KG)

Weight with packaging

| MODEL    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
|----------|------|------|------|------|------|------|------|------|------|
| 3 rows   | 12,2 | 13,6 | 17,1 | 18,1 | 21,9 | 22,8 | 27,0 | 30,2 | 30,4 |
| 3+1 rows | 12,9 | 14,4 | 18,3 | 19,3 | 23,4 | 24,3 | 28,8 | 32,0 | 32,2 |
| 3+2 rows | 13,4 | 15,0 | 19,0 | 20,0 | 24,3 | 25,2 | 29,9 | 33,1 | 33,3 |
| 4 rows   | 12,7 | 14,4 | 18,1 | 19,1 | 23,1 | 24,1 | 28,5 | 31,7 | 31,9 |
| 4+1 rows | 13,4 | 15,2 | 19,3 | 20,3 | 24,6 | 25,6 | 30,3 | 33,5 | 33,7 |

Weight without packaging

| MODEL    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
|----------|------|------|------|------|------|------|------|------|------|
| 3 rows   | 10,6 | 11,8 | 15,3 | 16,3 | 19,6 | 20,5 | 24,2 | 27,1 | 27,3 |
| 3+1 rows | 11,3 | 12,6 | 16,5 | 17,5 | 21,1 | 22,0 | 26,0 | 28,9 | 29,1 |
| 3+2 rows | 11,8 | 13,2 | 17,2 | 18,2 | 22,0 | 22,9 | 27,1 | 30,0 | 30,2 |
| 4 rows   | 11,1 | 12,6 | 16,3 | 17,3 | 20,8 | 21,8 | 25,7 | 28,6 | 28,8 |
| 4+1 rows | 11,8 | 13,4 | 17,5 | 18,5 | 22,3 | 23,3 | 27,5 | 30,4 | 30,6 |

## 3 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

| MODEL                       |       | ALLEGRA-ECM 2.3-2T |      |      |      |      | ALLEGRA-ECM 4.3-2T |      |      |      |      | ALLEGRA-ECM 6.3-2T |      |      |      |      |
|-----------------------------|-------|--------------------|------|------|------|------|--------------------|------|------|------|------|--------------------|------|------|------|------|
| INVERTER SPEED SIGNAL (VDC) |       | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5    | 7,5  | 10   |
|                             |       | MIN                |      | MED  |      | MAX  | MIN                |      | MED  |      | MAX  | MIN                |      | MED  |      | MAX  |
| Air flow                    | m³/h  | 120                | 170  | 220  | 270  | 330  | 210                | 280  | 350  | 430  | 515  | 305                | 395  | 495  | 610  | 735  |
| Cooling total emission      | kW    | 0,73               | 0,97 | 1,18 | 1,37 | 1,59 | 1,41               | 1,80 | 2,18 | 2,57 | 2,95 | 1,96               | 2,44 | 2,93 | 3,44 | 3,96 |
| Cooling sensible emission   | kW    | 0,55               | 0,74 | 0,92 | 1,09 | 1,28 | 1,03               | 1,33 | 1,64 | 1,95 | 2,26 | 1,46               | 1,83 | 2,22 | 2,64 | 3,08 |
| Heating emission            | kW    | 0,77               | 1,04 | 1,29 | 1,52 | 1,80 | 1,42               | 1,84 | 2,26 | 2,69 | 3,14 | 1,96               | 2,46 | 3,00 | 3,55 | 4,14 |
| Dp Cooling                  | kPa   | 2,2                | 3,6  | 5,1  | 6,7  | 8,6  | 7,9                | 12,0 | 17,0 | 22,6 | 28,9 | 5,5                | 8,0  | 11,1 | 14,8 | 19,0 |
| Dp Heating                  | kPa   | 1,6                | 2,7  | 3,9  | 5,2  | 7,0  | 6,6                | 10,4 | 14,9 | 20,4 | 26,7 | 4,5                | 6,8  | 9,6  | 12,9 | 17,0 |
| Fan                         | W     | 7,0                | 9,0  | 11,0 | 15,0 | 21,0 | 6,0                | 9,0  | 12,0 | 17,0 | 25,0 | 7,0                | 10,0 | 15,0 | 22,0 | 32,0 |
| Sound power (Lw)            | dB(A) | 30                 | 36   | 41   | 47   | 51   | 30                 | 36   | 42   | 47   | 51   | 33                 | 38   | 44   | 49   | 54   |
| Sound pressure (Lp) (1)     | dB(A) | 21                 | 27   | 32   | 38   | 42   | 21                 | 27   | 33   | 38   | 42   | 24                 | 29   | 35   | 40   | 45   |

| MODEL                       |       | ALLEGRA-ECM 7.3-2T |      |      |      |      | ALLEGRA-ECM 9.3-2T |      |      |      |      |
|-----------------------------|-------|--------------------|------|------|------|------|--------------------|------|------|------|------|
| INVERTER SPEED SIGNAL (VDC) |       | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5    | 7,5  | 10   |
|                             |       | MIN                |      | MED  |      | MAX  | MIN                |      | MED  |      | MAX  |
| Air flow                    | m³/h  | 400                | 500  | 610  | 755  | 890  | 605                | 785  | 945  | 1175 | 1395 |
| Cooling total emission      | kW    | 2,60               | 3,13 | 3,68 | 4,36 | 4,94 | 3,45               | 4,22 | 4,82 | 5,60 | 6,26 |
| Cooling sensible emission   | kW    | 1,92               | 2,33 | 2,77 | 3,32 | 3,80 | 2,63               | 3,28 | 3,79 | 4,49 | 5,10 |
| Heating emission            | kW    | 2,56               | 3,13 | 3,72 | 4,43 | 5,08 | 3,74               | 4,65 | 5,41 | 6,46 | 7,38 |
| Dp Cooling                  | kPa   | 10,5               | 14,5 | 19,4 | 26,1 | 32,6 | 8,9                | 12,7 | 16,1 | 21,1 | 25,9 |
| Dp Heating                  | kPa   | 8,5                | 12,1 | 16,4 | 22,2 | 28,3 | 7,3                | 10,7 | 14,0 | 19,1 | 24,2 |
| Fan                         | W     | 9,0                | 13,0 | 18,5 | 28,5 | 41,0 | 16,0               | 25,0 | 41,0 | 65,0 | 99,0 |
| Sound power (Lw)            | dB(A) | 37                 | 43   | 48   | 53   | 57   | 44                 | 50   | 55   | 60   | 64   |
| Sound pressure (Lp) (1)     | dB(A) | 28                 | 34   | 39   | 44   | 48   | 35                 | 41   | 46   | 51   | 55   |

<sup>(1)</sup> The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

## 4 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

| MODEL                       |       | ALLEGRA-ECM 2.4-2T |      |      |      |      | ALLEGRA-ECM 4.4-2T |      |      |      |      | ALLEGRA-ECM 6.4-2T |      |      |      |      |
|-----------------------------|-------|--------------------|------|------|------|------|--------------------|------|------|------|------|--------------------|------|------|------|------|
| INVERTER SPEED SIGNAL (VDC) |       | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5    | 7,5  | 10   |
|                             |       | MIN                |      | MED  |      | MAX  | MIN                |      | MED  |      | MAX  | MIN                |      | MED  |      | MAX  |
| Air flow                    | m³/h  | 115                | 160  | 210  | 260  | 325  | 200                | 265  | 340  | 415  | 505  | 290                | 375  | 475  | 590  | 720  |
| Cooling total emission      | kW    | 0,77               | 1,06 | 1,32 | 1,57 | 1,86 | 1,43               | 1,83 | 2,27 | 2,71 | 3,17 | 2,05               | 2,59 | 3,19 | 3,84 | 4,51 |
| Cooling sensible emission   | kW    | 0,56               | 0,78 | 0,98 | 1,19 | 1,42 | 1,03               | 1,34 | 1,67 | 2,02 | 2,39 | 1,48               | 1,89 | 2,34 | 2,84 | 3,38 |
| Heating emission            | kW    | 0,78               | 1,08 | 1,37 | 1,65 | 1,98 | 1,42               | 1,83 | 2,30 | 2,77 | 3,32 | 2,02               | 2,59 | 3,23 | 3,93 | 4,68 |
| Dp Cooling                  | kPa   | 3,2                | 5,5  | 8,0  | 11,0 | 14,8 | 4,0                | 6,1  | 8,9  | 12,3 | 16,1 | 8,2                | 12,4 | 17,8 | 24,8 | 33,0 |
| Dp Heating                  | kPa   | 2,6                | 4,7  | 7,1  | 9,9  | 13,6 | 3,1                | 4,9  | 7,3  | 10,2 | 13,7 | 6,6                | 10,3 | 15,1 | 21,4 | 29,1 |
| Fan                         | W     | 7,0                | 8,8  | 11,0 | 14,6 | 21,0 | 6,0                | 9,0  | 12,0 | 17,0 | 25,0 | 7,0                | 10,0 | 15,0 | 22,0 | 32,0 |
| Sound power (Lw)            | dB(A) | 30                 | 36   | 41   | 47   | 51   | 30                 | 36   | 42   | 47   | 51   | 33                 | 38   | 44   | 49   | 54   |
| Sound pressure (Lp) (1)     | dB(A) | 21                 | 27   | 32   | 38   | 42   | 21                 | 27   | 33   | 38   | 42   | 24                 | 29   | 35   | 40   | 45   |

| MODEL                       |       | ALLEGRA-ECM 7.4-2T |      |      |      |      | ALLEGRA-ECM 9.4-2T |      |      |      |      |
|-----------------------------|-------|--------------------|------|------|------|------|--------------------|------|------|------|------|
| INVERTER SPEED SIGNAL (VDC) |       | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5    | 7,5  | 10   |
|                             |       | MIN                |      | MED  |      | MAX  | MIN                |      | MED  |      | MAX  |
| Air flow                    | m³/h  | 380                | 475  | 585  | 735  | 875  | 575                | 755  | 910  | 1145 | 1365 |
| Cooling total emission      | kW    | 2,61               | 3,20 | 3,82 | 4,61 | 5,30 | 3,59               | 4,49 | 5,21 | 6,18 | 7,04 |
| Cooling sensible emission   | kW    | 1,90               | 2,34 | 2,82 | 3,44 | 3,99 | 2,69               | 3,40 | 3,99 | 4,81 | 5,53 |
| Heating emission            | kW    | 2,57               | 3,17 | 3,84 | 4,66 | 5,43 | 3,76               | 4,81 | 5,63 | 6,84 | 7,93 |
| Dp Cooling                  | kPa   | 7,3                | 10,5 | 14,3 | 20,0 | 25,6 | 6,3                | 9,3  | 12,1 | 16,4 | 20,8 |
| Dp Heating                  | kPa   | 5,9                | 8,6  | 12,0 | 16,9 | 22,0 | 5,6                | 8,7  | 11,4 | 16,1 | 20,9 |
| Fan                         | W     | 9,0                | 13,0 | 18,5 | 28,5 | 41,0 | 16,0               | 25,0 | 41,0 | 65,0 | 99,0 |
| Sound power (Lw)            | dB(A) | 37                 | 43   | 48   | 53   | 57   | 44                 | 50   | 55   | 60   | 64   |
| Sound pressure (Lp) (1)     | dB(A) | 28                 | 34   | 39   | 44   | 48   | 35                 | 41   | 46   | 51   | 55   |

<sup>(1)</sup> The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

## 3+1 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +65 °C E.W.T. +55 °C L.W.T.

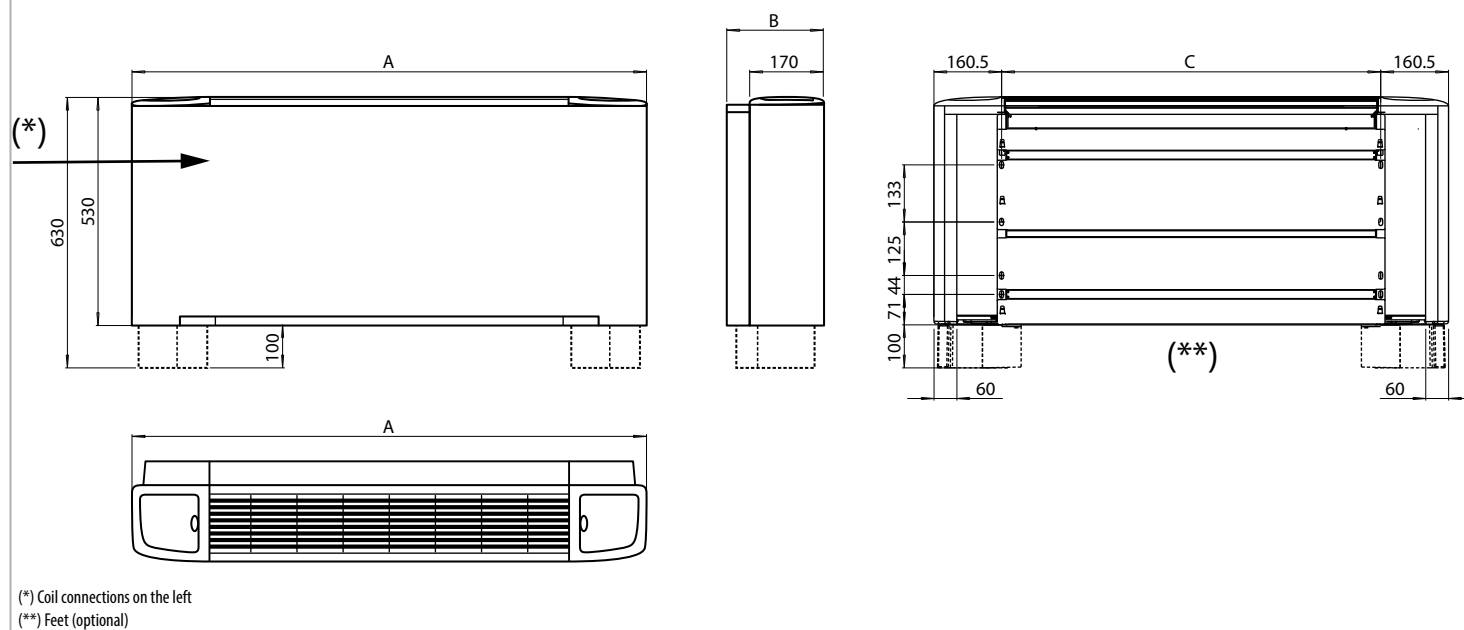
| MODEL                       |       | ALLEGRA-ECM 2.3-4T |      |      |      |      | ALLEGRA-ECM 4.3-4T |      |      |      |      | ALLEGRA-ECM 6.3-4T |      |      |      |      |
|-----------------------------|-------|--------------------|------|------|------|------|--------------------|------|------|------|------|--------------------|------|------|------|------|
| INVERTER SPEED SIGNAL (VDC) |       | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5    | 7,5  | 10   |
|                             |       | MIN                |      | MED  |      | MAX  | MIN                |      | MED  |      | MAX  | MIN                |      | MED  |      | MAX  |
| Air flow                    | m³/h  | 120                | 170  | 220  | 270  | 330  | 210                | 280  | 350  | 430  | 515  | 305                | 395  | 495  | 610  | 735  |
| Cooling total emission      | kW    | 0,73               | 0,97 | 1,18 | 1,37 | 1,59 | 1,41               | 1,80 | 2,18 | 2,57 | 2,95 | 1,96               | 2,44 | 2,93 | 3,44 | 3,96 |
| Cooling sensible emission   | kW    | 0,55               | 0,74 | 0,92 | 1,09 | 1,28 | 1,03               | 1,33 | 1,64 | 1,95 | 2,26 | 1,46               | 1,83 | 2,22 | 2,64 | 3,08 |
| Heating emission            | kW    | 0,71               | 0,91 | 1,08 | 1,24 | 1,43 | 1,29               | 1,57 | 1,85 | 2,13 | 2,41 | 1,76               | 2,10 | 2,45 | 2,83 | 3,22 |
| Dp Cooling                  | kPa   | 2,3                | 3,8  | 5,4  | 7,2  | 9,4  | 7,3                | 11,5 | 16,0 | 21,6 | 28,1 | 6,4                | 9,6  | 13,2 | 17,7 | 23,3 |
| Dp Heating                  | kPa   | 1,0                | 1,6  | 2,1  | 2,7  | 3,5  | 3,6                | 5,2  | 6,9  | 8,8  | 11,0 | 1,2                | 1,7  | 2,2  | 2,9  | 3,6  |
| Fan                         | W     | 7,0                | 9,0  | 11,0 | 14,5 | 21,0 | 6,0                | 9,0  | 12,0 | 17,0 | 25,0 | 7,0                | 10,0 | 15,0 | 22,0 | 32,0 |
| Sound power (Lw)            | dB(A) | 30                 | 36   | 41   | 47   | 51   | 30                 | 36   | 42   | 47   | 51   | 33                 | 38   | 44   | 49   | 54   |
| Sound pressure (Lp) (1)     | dB(A) | 21                 | 27   | 32   | 38   | 42   | 21                 | 27   | 33   | 38   | 42   | 24                 | 29   | 35   | 40   | 45   |

| MODEL                       |       | ALLEGRA-ECM 7.3-4T |      |      |      |      | ALLEGRA-ECM 9.3-4T |      |          |      |          |
|-----------------------------|-------|--------------------|------|------|------|------|--------------------|------|----------|------|----------|
| INVERTER SPEED SIGNAL (VDC) |       | 1                  | 3    | 5    | 7,5  | 10   | 1                  | 3    | 5        | 7,5  | 10       |
|                             |       | MIN                |      | MED  |      | MAX  | MIN                |      | MED      |      | MAX      |
| Air flow                    | m³/h  | 400                | 500  | 610  | 755  | 890  | 605                | 785  | 945      | 1175 | 1395     |
| Cooling total emission      | kW    | 2,60               | 3,13 | 3,68 | 4,36 | 4,94 | 3,45               | 4,22 | 4,82     | 5,60 | 6,26     |
| Cooling sensible emission   | kW    | 1,92               | 2,33 | 2,77 | 3,32 | 3,80 | 2,63               | 3,28 | 3,79     | 4,49 | 5,10     |
| Heating emission            | kW    | 2,33               | 2,72 | 3,12 | 3,63 | 4,06 | 2,99               | 3,58 | 4,05     | 4,69 | 5,24     |
| Dp Cooling                  | kPa   | 9,7                | 13,8 | 18,4 | 24,8 | 31,8 | 8,9                | 12,7 | 16,1     | 21,1 | 25,9     |
| Dp Heating                  | kPa   | 2,4                | 3,1  | 4,0  | 5,2  | 6,3  | 3,7                | 5,1  | 6,3      | 8,2  | 9,9      |
| Fan                         | W     | 9,0                | 13,0 | 18,5 | 28,5 | 41,0 | 16,0 (2)           | 25,0 | 41,0 (2) | 65,0 | 99,0 (2) |
| Sound power (Lw)            | dB(A) | 37                 | 43   | 48   | 53   | 57   | 44                 | 50   | 55       | 60   | 64       |
| Sound pressure (Lp) (1)     | dB(A) | 28                 | 34   | 39   | 44   | 48   | 35                 | 41   | 46       | 51   | 55       |

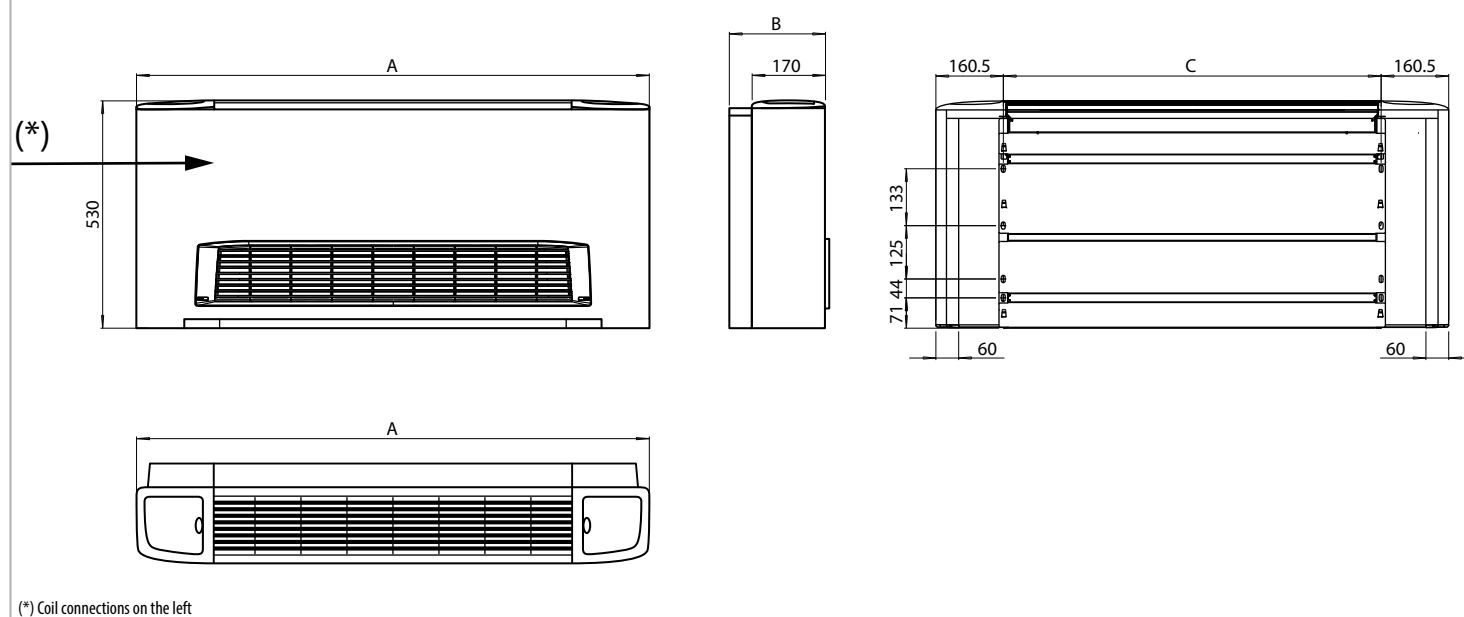
(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

(2) Motor absorption in Heating mode: MIN: 18 W / MED: 46 W / MAX: 111 W

## LSV

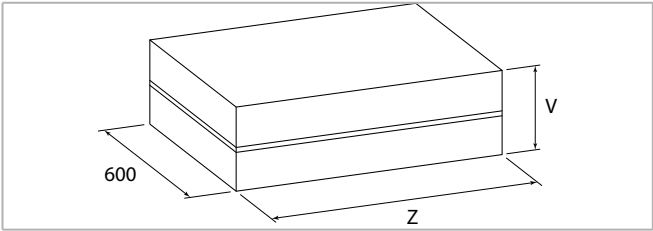


## LSH-LSB



| MODEL |    | ALLEGRA-ECM 2 | ALLEGRA-ECM 4 | ALLEGRA-ECM 6 | ALLEGRA-ECM 7 | ALLEGRA-ECM 9 |
|-------|----|---------------|---------------|---------------|---------------|---------------|
| A     | mm | 775           | 990           | 1205          | 1420          |               |
| B     | mm | 225           |               |               |               | 255           |
| C     | mm | 454           | 669           | 884           | 1099          |               |

PACKED UNIT



| MODEL |    | 2   | 4    | 6    | 7    | 9   |
|-------|----|-----|------|------|------|-----|
| V     | mm | 260 |      |      |      | 290 |
| Z     | mm | 820 | 1035 | 1250 | 1465 |     |

WEIGHT (KG)

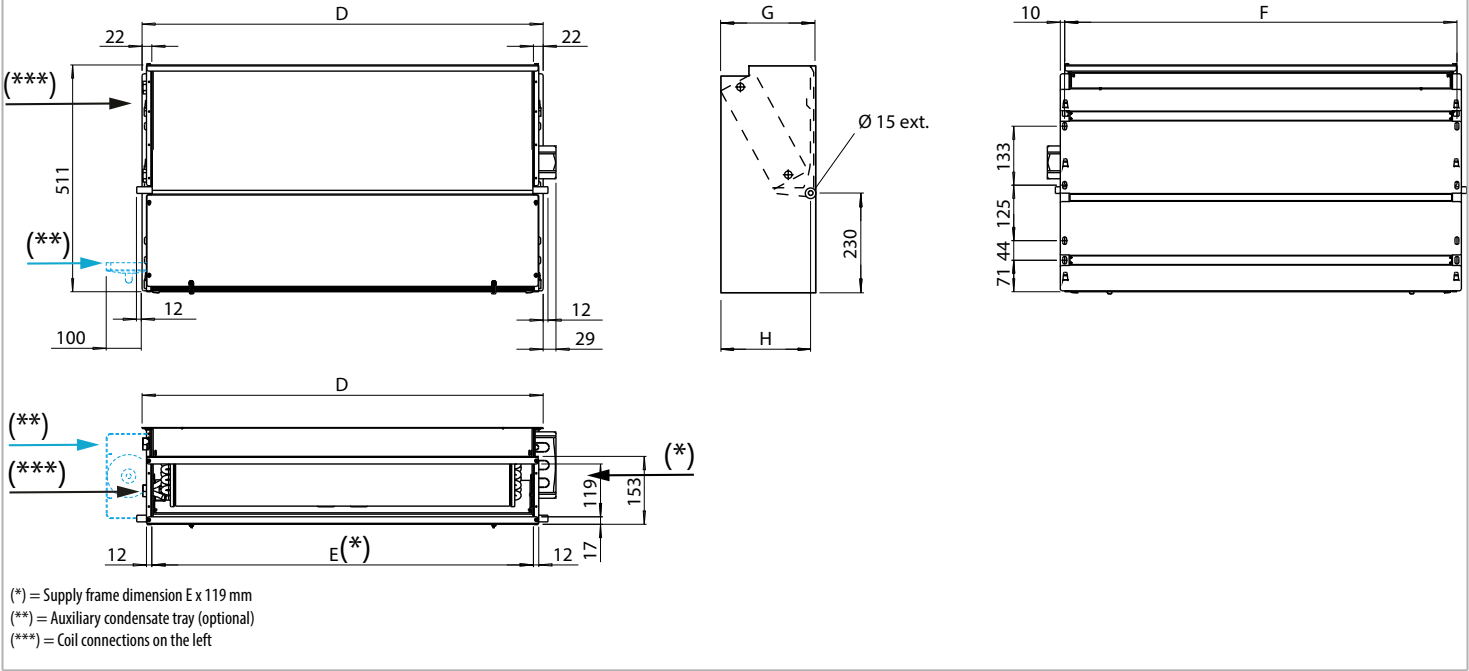
Weight with packaging

| MODEL    | 2    | 4    | 6    | 7    | 9    |
|----------|------|------|------|------|------|
| 3 rows   | 17,2 | 22,5 | 27,7 | 32,1 | 35,9 |
| 3+1 rows | 18,0 | 23,7 | 29,2 | 33,9 | 37,7 |
| 3+2 rows | 18,6 | 24,4 | 30,1 | 35,0 | 38,8 |
| 4 rows   | 18,0 | 23,5 | 29,0 | 33,6 | 37,4 |
| 4+1 rows | 18,8 | 24,7 | 30,5 | 35,4 | 39,2 |

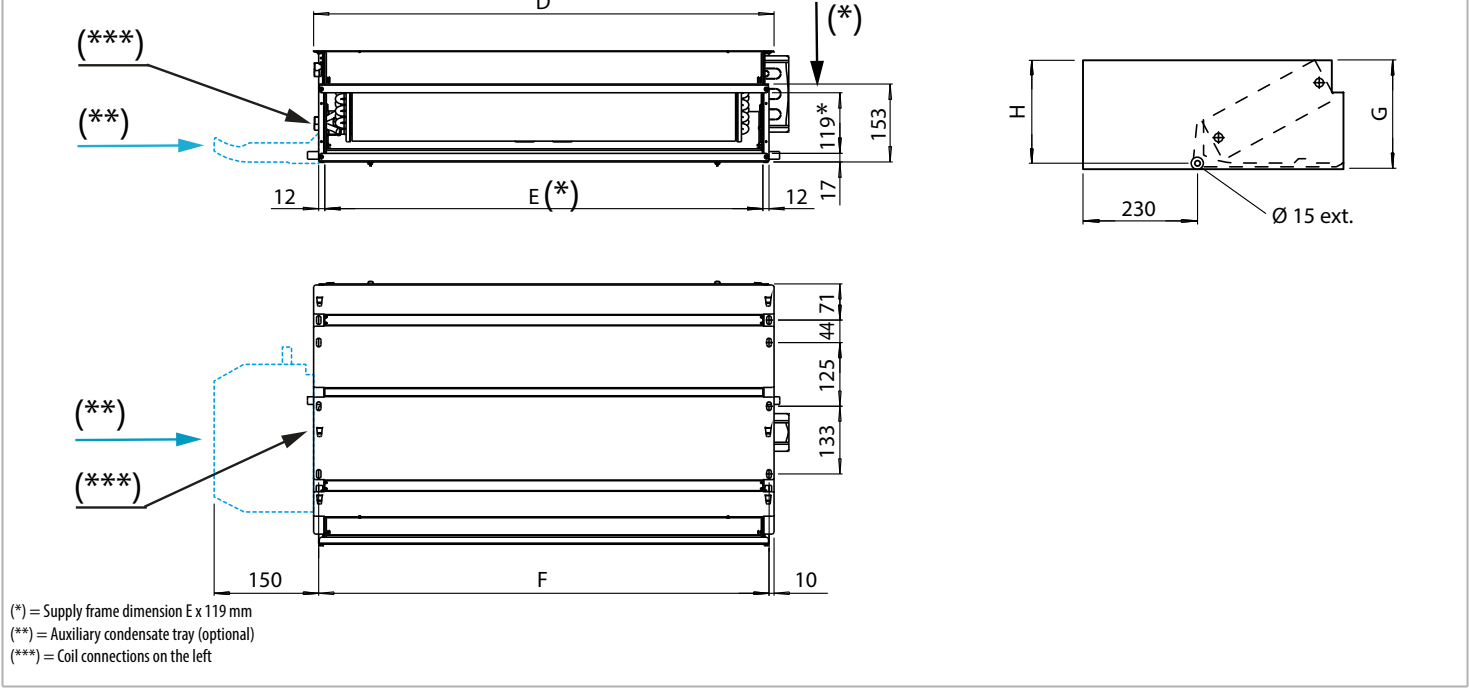
Weight without packaging

| MODEL    | 2    | 4    | 6    | 7    | 9    |
|----------|------|------|------|------|------|
| 3 rows   | 15,4 | 20,2 | 24,9 | 28,8 | 32,2 |
| 3+1 rows | 16,2 | 21,4 | 26,4 | 30,6 | 34,0 |
| 3+2 rows | 16,8 | 22,1 | 27,3 | 31,7 | 35,1 |
| 4 rows   | 16,2 | 21,2 | 26,2 | 30,3 | 33,7 |
| 4+1 rows | 17,0 | 22,4 | 27,7 | 32,1 | 35,5 |

LSN VERTICAL INSTALLATION



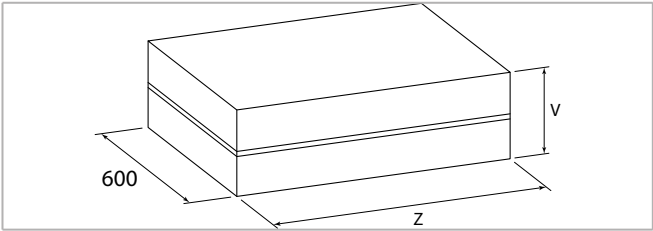
LSN HORIZONTAL INSTALLATION



| MODEL |    | ALLEGRA-ECM 2 | ALLEGRA-ECM 4 | ALLEGRA-ECM 6 | ALLEGRA-ECM 7 | ALLEGRA-ECM 9 |
|-------|----|---------------|---------------|---------------|---------------|---------------|
| D     | mm | 474           | 689           | 904           | 1119          |               |
| E     | mm | 430           | 645           | 860           | 1075          |               |
| F     | mm | 454           | 669           | 884           | 1099          |               |



PACKED UNIT



| MODEL |    | 2   | 4    | 6    | 7 | 9   |
|-------|----|-----|------|------|---|-----|
| V     | mm | 260 |      |      |   | 290 |
| Z     | mm | 820 | 1035 | 1250 |   |     |

WEIGHT (KG)

Weight with packaging

| MODEL    | 2    | 4    | 6    | 7    | 9    |
|----------|------|------|------|------|------|
| 3 rows   | 13,6 | 18,1 | 22,8 | 27,0 | 30,4 |
| 3+1 rows | 14,4 | 19,3 | 24,3 | 28,8 | 32,2 |
| 3+2 rows | 15,0 | 20,0 | 25,2 | 29,9 | 33,3 |
| 4 rows   | 14,4 | 19,1 | 24,1 | 28,5 | 31,9 |
| 4+1 rows | 15,2 | 20,3 | 25,6 | 30,3 | 33,7 |

Weight without packaging

| MODEL    | 2    | 4    | 6    | 7    | 9    |
|----------|------|------|------|------|------|
| 3 rows   | 11,8 | 16,3 | 20,5 | 24,2 | 27,3 |
| 3+1 rows | 12,6 | 17,5 | 22,0 | 26,0 | 29,1 |
| 3+2 rows | 13,2 | 18,2 | 22,9 | 27,1 | 30,2 |
| 4 rows   | 12,6 | 17,3 | 21,8 | 25,7 | 28,8 |
| 4+1 rows | 13,4 | 18,5 | 23,3 | 27,5 | 30,6 |

redge<sup>®</sup> FORMERLY  
LENNOX



# ARMONIA ARMONIA ECM

Cassette Fan Coil Unit



| CWC         | 2           | EC             | MB            | EH                     | 1    | 20                                                      |
|-------------|-------------|----------------|---------------|------------------------|------|---------------------------------------------------------|
| MODEL       | PIPE SYSTEM | MOTOR          | POWER BOARD   | ACCESSORIES            | SIZE | COIL COMPOSITION                                        |
| ARMOMIA     | 2 - 2 pipes | -- - AC motor  | ST - Basic    | -- - None              | 0    | 20 - 2 Pipes                                            |
| ARMONIA ECM | 4 - 4 pipes | EC - ECM motor | MB - MB board | EH - Electrical heater | 1    | 40 - 4 Pipes                                            |
|             |             |                |               |                        | 2    | 60 - 4 Pipes (thicker coil for higher cooling emission) |
|             |             |                |               |                        | 3    |                                                         |
|             |             |                |               |                        | 4    |                                                         |
|             |             |                |               |                        | 5    |                                                         |
|             |             |                |               |                        | 6    |                                                         |
|             |             |                |               |                        | 7    |                                                         |
|             |             |                |               |                        | 8    |                                                         |

AIR DIFFUSER

- # Intake grids, frame and adjustable air distribution louvers on each side, made from ABS.
- Several Versions are available as options:
- # PLASTIC DIFFUSER - WHITE - NOT FITTED
- # PLASTIC DIFFUSER WITHOUT MOTORIZED FLAPS - WHITE - NOT FITTED
- # PLASTIC DIFFUSER WITH MOTORIZED FLAPS - WHITE - NOT FITTED
- # METALLIC DIFFUSER - WHITE - NOT FITTED
- # PLASTIC DIFFUSER IN DIFFERENT RAL COLOURS (Min. qty 20 pcs)
- # PLASTIC DIFFUSER IN DIFFERENT RAL COLOURS WITHOUT MOTORIZED FLAPS (Min. qty 20 pcs)
- # PLASTIC DIFFUSER IN DIFFERENT RAL COLOURS WITH MOTORIZED FLAPS (Min. qty 20 pcs)

INNER CASING

- # It is made of galvanized steel with internal thermal insulation with polyolefin (PO) foam (B-s2-d0 EN 13501-01) and external anti-condensate lining.

CONTROL DEVICES

- # Made of an external box with the control electronic board with an easily accessible terminal board.

VALVE SET

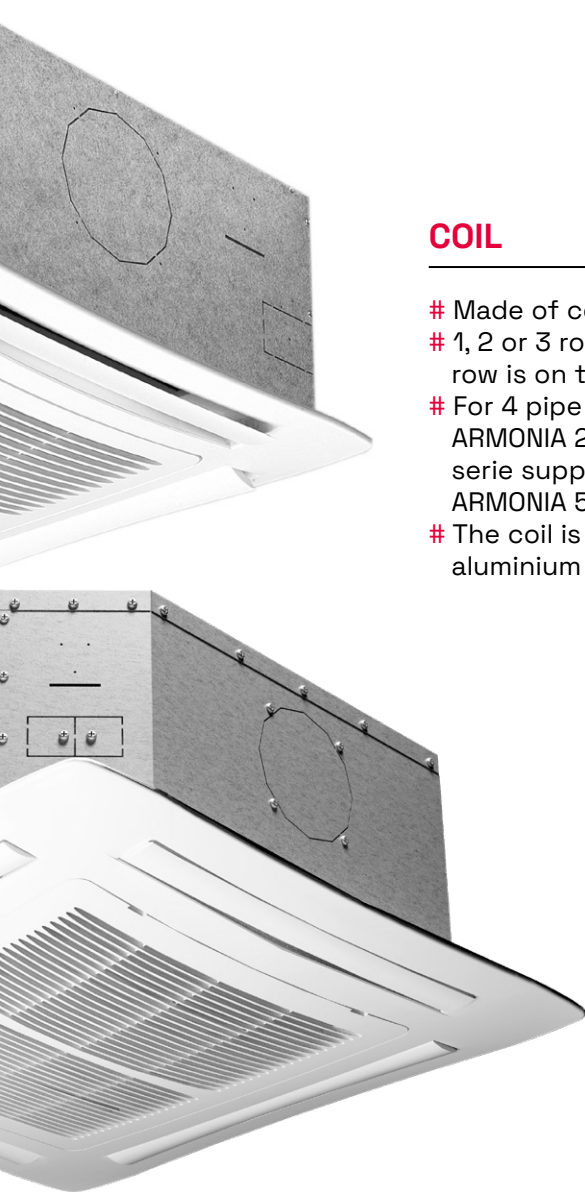
- # Two or three way valves for ON/OFF operation, with pipe mounting kit and lockshields.



## FAN ASSEMBLY

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- # The fan assembly, which is mounted on anti-vibrating supports, is extremely silent.
- # The radial fan has been designed to optimise performance, using wing profile blades with a shape that reduces turbulence, increasing efficiency and reducing noise.
- # The motor is single phase 230 V / 50 Hz supply, class B insulation and integrated Klaxon thermal contact for motor protection.
- # The units are supplied with 3 standard speeds connected and it is possible to change them on site if necessary.



**800 X 800 VERSION**

## COIL

---

- # Made of copper tubes with bonded aluminium fins for maximum transfer contact.
- # 1, 2 or 3 row coil for 2 pipe models and 2+1 row coil for 4 pipe models (the heating row is on the inside part of the coil).
- # For 4 pipe systems two versions are available: the ARMONIA 0.4T, ARMONIA 1.4T, ARMONIA 2.4T, ARMONIA 3.4T, ARMONIA 4.4T, ARMONIA 5.4T, ARMONIA 6.4T serie supply an higher heating emission; and the ARMONIA 2.6T, ARMONIA 3.6T, ARMONIA 5.6T, ARMONIA 6.6T serie supply an higher cooling emission.
- # The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

## CONDENSATE COLLECTION TRAY

---

- # High density ABS polystyrene foam condensate tray, shaped in order to optimize the air diffusion.
- # Fire retardant rating B1 to DIN 4102.

## FILTER

---

- # Synthetic washable filter, easily removable.

## CONDENSATE DRAIN PUMP

---

- # Float switch centrifugal pump with 650 mm of maximum head, integral to the unit and wired to the control panel on the outside of the casing.
- # The version with available pressure 1000 mm can be supplied on demand.

## 2 PIPE SYSTEM

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

| MODEL                                  |       | ARMONIA 0.2T |      |      | ARMONIA 1.2T |      |      | ARMONIA 2.2T |      |      | ARMONIA 3.2T |      |      |
|----------------------------------------|-------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|------|------|
| SPEED                                  |       | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    |
| Air flow                               | m³/h  | 310          | 420  | 610  | 310          | 420  | 520  | 320          | 500  | 710  | 430          | 610  | 880  |
| Cooling total emission                 | kW    | 1,25         | 1,60 | 1,92 | 1,82         | 2,31 | 2,64 | 2,23         | 3,30 | 4,26 | 2,91         | 3,82 | 4,93 |
| Cooling sensible emission              | kW    | 0,99         | 1,29 | 1,58 | 1,33         | 1,72 | 2,00 | 1,55         | 2,35 | 3,11 | 2,05         | 2,75 | 3,65 |
| Heating emission                       | kW    | 1,38         | 1,80 | 2,24 | 1,85         | 2,42 | 2,80 | 2,12         | 3,28 | 4,37 | 2,85         | 3,85 | 5,15 |
| Dp Cooling                             | kPa   | 4,5          | 7,0  | 10,0 | 4,9          | 7,6  | 9,7  | 6,4          | 13,0 | 20,9 | 7,5          | 12,4 | 19,7 |
| Dp Heating                             | kPa   | 4,4          | 7,2  | 10,7 | 4,3          | 6,9  | 9,0  | 2,8          | 6,1  | 10,2 | 6,2          | 10,6 | 17,8 |
| Sound power (Lw)                       | dB(A) | 33           | 40   | 49   | 33           | 40   | 45   | 33           | 45   | 53   | 41           | 49   | 59   |
| Sound pressure (Lp) (1)                | dB(A) | 24           | 31   | 40   | 24           | 31   | 36   | 24           | 36   | 44   | 32           | 40   | 50   |
| Fan                                    | W     | 25           | 32   | 57   | 25           | 32   | 44   | 25           | 44   | 68   | 32           | 57   | 90   |
| Current absorbed                       | A     | 0,11         | 0,15 | 0,27 | 0,11         | 0,15 | 0,20 | 0,11         | 0,20 | 0,32 | 0,15         | 0,27 | 0,45 |
| Condensate drain pump power absorption | W     | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10   |
| Water content                          | l     | 0,8          | 0,8  | 0,8  | 1,4          | 1,4  | 1,4  | 2,1          | 2,1  | 2,1  | 2,1          | 2,1  | 2,1  |
| Length                                 | mm    | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  |
| Depth                                  | mm    | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  |
| Height                                 | mm    | 275          | 275  | 275  | 275          | 275  | 275  | 275          | 275  | 275  | 275          | 275  | 275  |

| MODEL                                  |       | ARMONIA 4.2T |      |      | ARMONIA 5.2T |      |      | ARMONIA 6.2T |      |       |
|----------------------------------------|-------|--------------|------|------|--------------|------|------|--------------|------|-------|
| SPEED                                  |       | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3     |
| Air flow                               | m³/h  | 630          | 820  | 1140 | 710          | 970  | 1500 | 710          | 1280 | 1820  |
| Cooling total emission                 | kW    | 4,18         | 4,86 | 6,08 | 5,27         | 6,72 | 9,39 | 5,27         | 8,36 | 10,93 |
| Cooling sensible emission              | kW    | 3,00         | 3,53 | 4,51 | 3,42         | 4,42 | 6,36 | 3,67         | 6,00 | 8,08  |
| Heating emission                       | kW    | 4,27         | 5,03 | 6,50 | 4,92         | 6,40 | 9,23 | 5,12         | 8,55 | 11,72 |
| Dp Cooling                             | kPa   | 10,9         | 14,3 | 21,6 | 9,4          | 14,7 | 26,9 | 9,4          | 21,8 | 35,6  |
| Dp Heating                             | kPa   | 7,0          | 9,4  | 15,0 | 7,1          | 11,4 | 22,0 | 7,6          | 19,2 | 33,8  |
| Sound power (Lw)                       | dB(A) | 33           | 40   | 48   | 34           | 40   | 53   | 34           | 48   | 58    |
| Sound pressure (Lp) (1)                | dB(A) | 24           | 31   | 39   | 25           | 31   | 44   | 25           | 39   | 49    |
| Fan                                    | W     | 33           | 48   | 77   | 42           | 63   | 120  | 42           | 95   | 170   |
| Current absorbed                       | A     | 0,15         | 0,23 | 0,36 | 0,18         | 0,28 | 0,53 | 0,18         | 0,42 | 0,74  |
| Condensate drain pump power absorption | W     | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10    |
| Water content                          | l     | 3,0          | 3,0  | 3,0  | 4,0          | 4,0  | 4,0  | 4,0          | 4,0  | 4,0   |
| Length                                 | mm    | 820          | 820  | 820  | 820          | 820  | 820  | 820          | 820  | 820   |
| Depth                                  | mm    | 820          | 820  | 820  | 820          | 820  | 820  | 820          | 820  | 820   |
| Height                                 | mm    | 303          | 303  | 303  | 303          | 303  | 303  | 303          | 303  | 303   |

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

## 4 PIPE SYSTEM

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

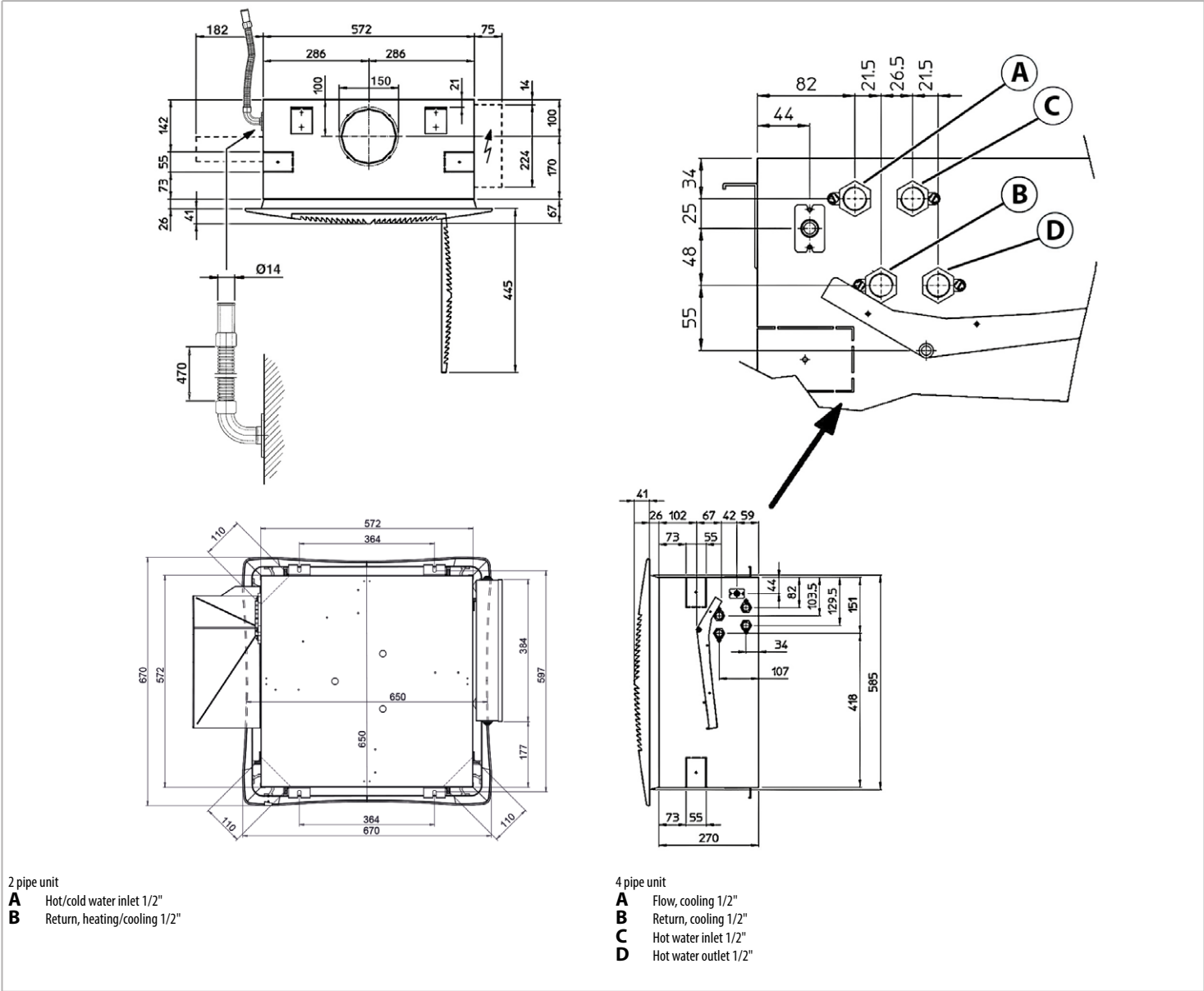
Water temperature: +65 °C E.W.T. +55 °C L.W.T.

| MODEL                                  |       | ARMONIA 0.4T |      |      | ARMONIA 1.4T |      |      | ARMONIA 2.4T |      |      | ARMONIA 2.6T |      |      | ARMONIA 3.4T |      |      | ARMONIA 3.6T |      |      |
|----------------------------------------|-------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|------|------|
| SPEED                                  |       | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    |
| Air flow                               | m³/h  | 310          | 420  | 610  | 310          | 420  | 520  | 320          | 500  | 710  | 320          | 500  | 710  | 430          | 610  | 880  | 430          | 610  | 880  |
| Cooling total emission                 | kW    | 1,49         | 1,93 | 2,27 | 1,83         | 2,33 | 2,66 | 1,83         | 2,61 | 3,27 | 2,07         | 3,02 | 3,86 | 2,33         | 2,96 | 3,72 | 2,69         | 3,47 | 4,44 |
| Cooling sensible emission              | kW    | 1,13         | 1,52 | 1,84 | 1,32         | 1,68 | 1,94 | 1,32         | 1,94 | 2,49 | 1,47         | 2,20 | 2,88 | 1,72         | 2,23 | 2,88 | 1,94         | 2,56 | 3,37 |
| Heating emission                       | kW    | 1,72         | 2,23 | 2,66 | 2,13         | 2,66 | 3,04 | 2,13         | 3,04 | 3,86 | 1,73         | 2,71 | 2,91 | 2,61         | 3,33 | 4,19 | 2,14         | 2,66 | 3,29 |
| Dp Cooling                             | kPa   | 6,0          | 10,0 | 13,5 | 4,6          | 6,9  | 8,8  | 4,6          | 8,8  | 13,4 | 4,0          | 7,0  | 10,5 | 7,2          | 11,2 | 17,0 | 6,0          | 9,0  | 14,0 |
| Dp Heating                             | kPa   | 5,2          | 8,3  | 11,4 | 4,6          | 6,8  | 8,7  | 4,6          | 8,7  | 13,3 | 2,6          | 4,6  | 6,7  | 6,4          | 9,9  | 15,0 | 3,9          | 5,7  | 8,4  |
| Sound power (Lw)                       | dB(A) | 33           | 40   | 49   | 33           | 40   | 45   | 33           | 45   | 53   | 33           | 45   | 53   | 41           | 49   | 59   | 41           | 49   | 59   |
| Sound pressure (Lp) <sup>(1)</sup>     | dB(A) | 24           | 31   | 40   | 24           | 31   | 36   | 24           | 36   | 44   | 24           | 36   | 44   | 32           | 40   | 50   | 32           | 40   | 50   |
| Fan                                    | W     | 25           | 32   | 57   | 25           | 32   | 44   | 25           | 44   | 68   | 25           | 44   | 68   | 32           | 57   | 90   | 32           | 57   | 90   |
| Current absorbed                       | A     | 0,11         | 0,15 | 0,27 | 0,11         | 0,15 | 0,20 | 0,11         | 0,20 | 0,32 | 0,11         | 0,20 | 0,32 | 0,15         | 0,27 | 0,45 | 0,15         | 0,27 | 0,45 |
| Condensate drain pump power absorption | W     | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10   |
| Cooling water content                  | l     | 1,0          | 1,0  | 1,0  | 1,4          | 1,4  | 1,4  | 1,4          | 1,4  | 1,4  | 1,7          | 1,7  | 1,7  | 1,4          | 1,4  | 1,4  | 1,7          | 1,7  | 1,7  |
| Heating water content                  | l     | 0,6          | 0,6  | 0,6  | 0,7          | 0,7  | 0,7  | 0,7          | 0,7  | 0,7  | 0,5          | 0,5  | 0,5  | 0,7          | 0,7  | 0,7  | 0,5          | 0,5  | 0,5  |
| Length                                 | mm    | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  |
| Depth                                  | mm    | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  | 575          | 575  | 575  |
| Height                                 | mm    | 275          | 275  | 275  | 275          | 275  | 275  | 275          | 275  | 275  | 275          | 275  | 275  | 275          | 275  | 275  | 275          | 275  | 275  |

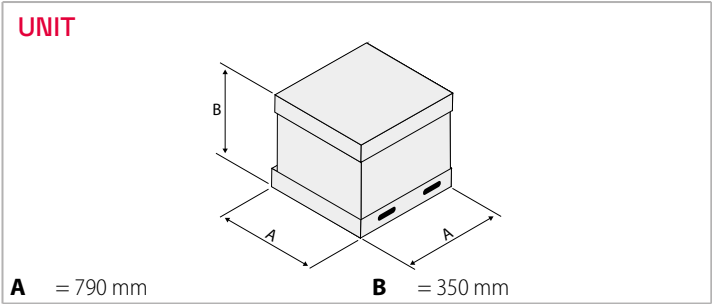
| MODEL                                  |       | ARMONIA 4.4T |      |      | ARMONIA 5.4T |      |      | ARMONIA 5.6T |      |      | ARMONIA 6.4T |      |       | ARMONIA 6.6T |      |       |
|----------------------------------------|-------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|------|-------|--------------|------|-------|
| SPEED                                  |       | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3     | 1            | 2    | 3     |
| Air flow                               | m³/h  | 630          | 820  | 1140 | 710          | 970  | 1500 | 710          | 970  | 1500 | 710          | 1280 | 1820  | 710          | 1280 | 1820  |
| Cooling total emission                 | kW    | 4,11         | 4,98 | 6,26 | 4,48         | 5,60 | 7,59 | 4,95         | 6,27 | 8,65 | 4,48         | 6,84 | 8,72  | 4,95         | 7,75 | 10,03 |
| Cooling sensible emission              | kW    | 2,93         | 3,60 | 4,61 | 3,21         | 4,09 | 5,71 | 3,49         | 4,49 | 6,37 | 3,21         | 5,09 | 6,67  | 3,49         | 5,64 | 7,51  |
| Heating emission                       | kW    | 5,21         | 6,33 | 8,02 | 5,69         | 7,15 | 9,66 | 4,59         | 5,63 | 7,50 | 5,69         | 8,80 | 11,16 | 4,59         | 6,78 | 8,58  |
| Dp Cooling                             | kPa   | 8,8          | 12,5 | 18,9 | 10,3         | 15,4 | 26,9 | 9,0          | 14,0 | 25,0 | 10,3         | 22,1 | 34,7  | 9,0          | 20,0 | 32,0  |
| Dp Heating                             | kPa   | 7,9          | 11,2 | 17,2 | 9,3          | 14,0 | 24,0 | 4,9          | 7,0  | 11,8 | 9,3          | 20,3 | 31,2  | 4,9          | 9,9  | 15,0  |
| Sound power (Lw)                       | dB(A) | 33           | 40   | 48   | 34           | 40   | 53   | 34           | 40   | 53   | 34           | 48   | 58    | 34           | 48   | 58    |
| Sound pressure (Lp) <sup>(1)</sup>     | dB(A) | 24           | 31   | 39   | 25           | 31   | 44   | 25           | 31   | 44   | 25           | 39   | 49    | 25           | 39   | 49    |
| Fan                                    | W     | 33           | 48   | 77   | 42           | 63   | 120  | 42           | 63   | 120  | 42           | 95   | 170   | 42           | 95   | 170   |
| Current absorbed                       | A     | 0,15         | 0,23 | 0,36 | 0,18         | 0,28 | 0,53 | 0,18         | 0,28 | 0,53 | 0,18         | 0,42 | 0,74  | 0,18         | 0,42 | 0,74  |
| Condensate drain pump power absorption | W     | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10   | 10           | 10   | 10    | 10           | 10   | 10    |
| Cooling water content                  | l     | 3,0          | 3,0  | 3,0  | 3,0          | 3,0  | 3,0  | 3,6          | 3,6  | 3,6  | 3,0          | 3,0  | 3,0   | 3,6          | 3,6  | 3,6   |
| Heating water content                  | l     | 1,4          | 1,4  | 1,4  | 1,4          | 1,4  | 1,4  | 1,0          | 1,0  | 1,0  | 1,4          | 1,4  | 1,4   | 1,1          | 1,1  | 1,1   |
| Length                                 | mm    | 820          | 820  | 820  | 820          | 820  | 820  | 820          | 820  | 820  | 820          | 820  | 820   | 820          | 820  | 820   |
| Depth                                  | mm    | 820          | 820  | 820  | 820          | 820  | 820  | 820          | 820  | 820  | 820          | 820  | 820   | 820          | 820  | 820   |
| Height                                 | mm    | 303          | 303  | 303  | 303          | 303  | 303  | 303          | 303  | 303  | 303          | 303  | 303   | 303          | 303  | 303   |

<sup>(1)</sup> The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

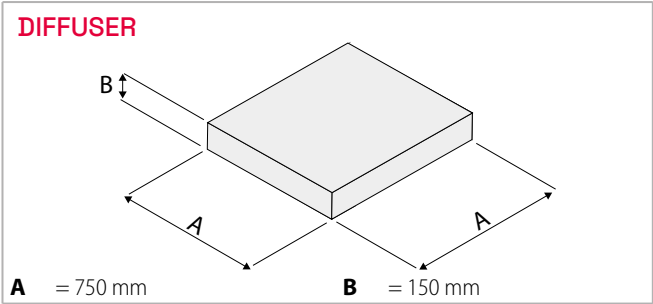
ARMONIA 0.2T-0.4T / ARMONIA 1.2T-1.4T / ARMONIA 2.2T-2.4T-2.6T / ARMONIA 3.2T-3.4T-3.6T (600 X 600 VERSION)



PACKED UNIT



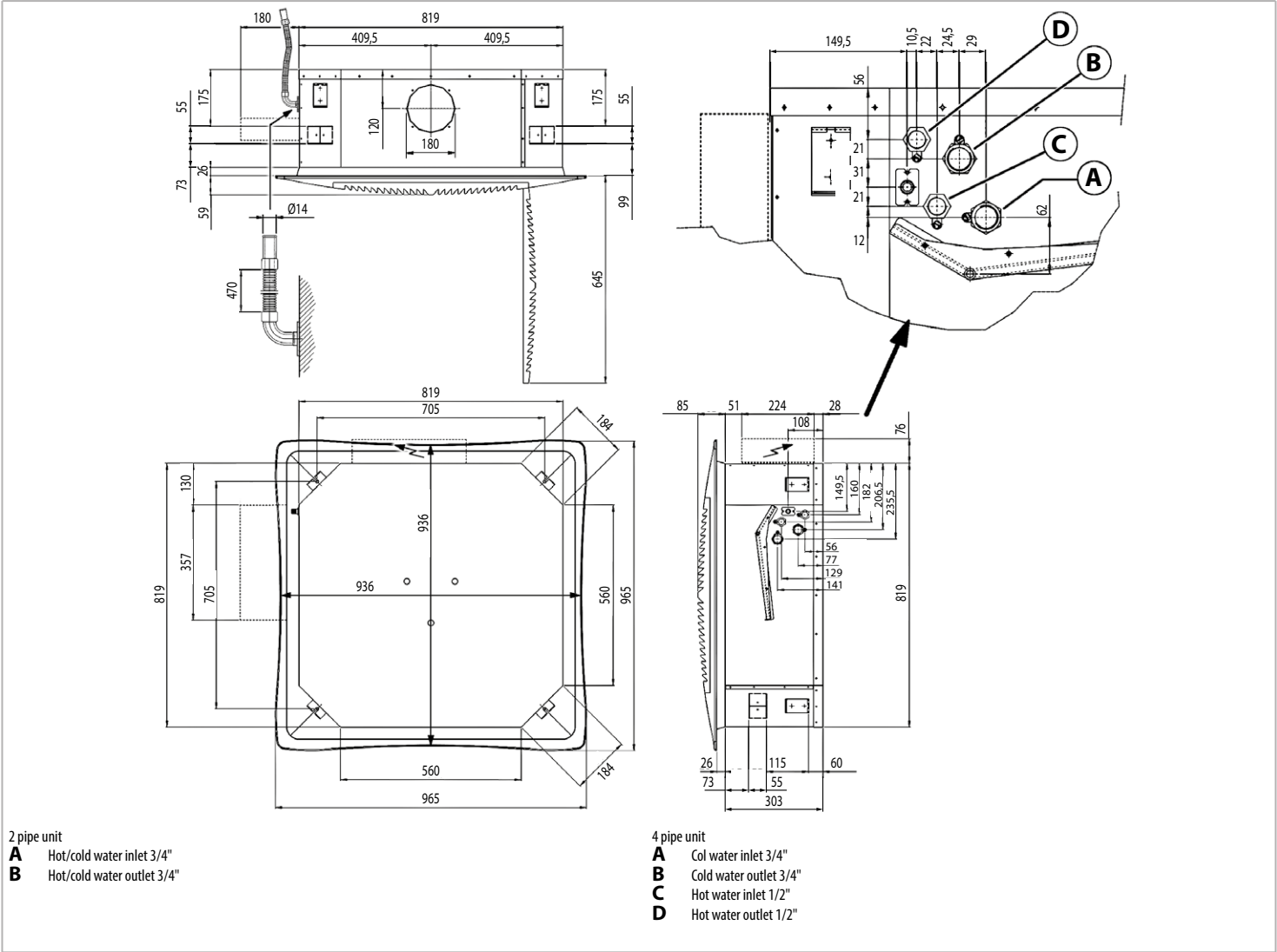
| WEIGHT/MODEL      |    | 0.2T-1.2T | 0.4T-1.4T | 2.2T-2.4T-2.6T | 3.2T-3.4T-3.6T |
|-------------------|----|-----------|-----------|----------------|----------------|
| With packaging    | kg | 21,0      | 22,5      | 22,0           |                |
| Without packaging | kg | 18,0      | 19,5      | 19,0           |                |



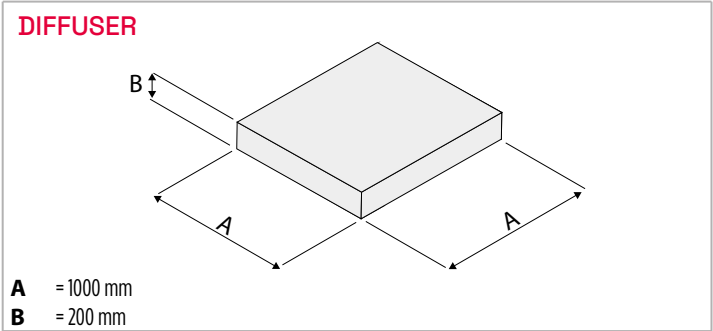
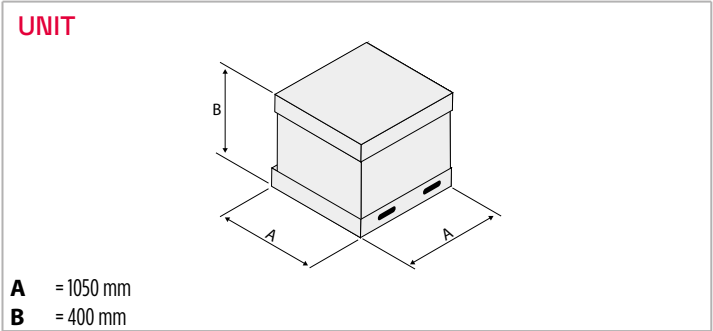
| WEIGHT/MODEL      |    | 0.2T-1.2T | 0.4T-1.4T | 2.2T-2.4T-2.6T | 3.2T-3.4T-3.6T |
|-------------------|----|-----------|-----------|----------------|----------------|
| With packaging    | kg | 3,5       |           |                |                |
| Without packaging | kg | 2,5       |           |                |                |



ARMONIA 4.2T-4.4T / ARMONIA 5.2T-5.4T-5.6T / ARMONIA 6.2T-6.4T-6.6T (800 X 800 VERSION)



PACKED UNIT



| WEIGHT/MODEL      |    | 4.2T | 4.4T | 5.2T-5.4T-5.6T | 6.2T-6.4T-6.6T |
|-------------------|----|------|------|----------------|----------------|
| With packaging    | kg | 40   |      | 44             |                |
| Without packaging | kg | 35   |      | 39             |                |

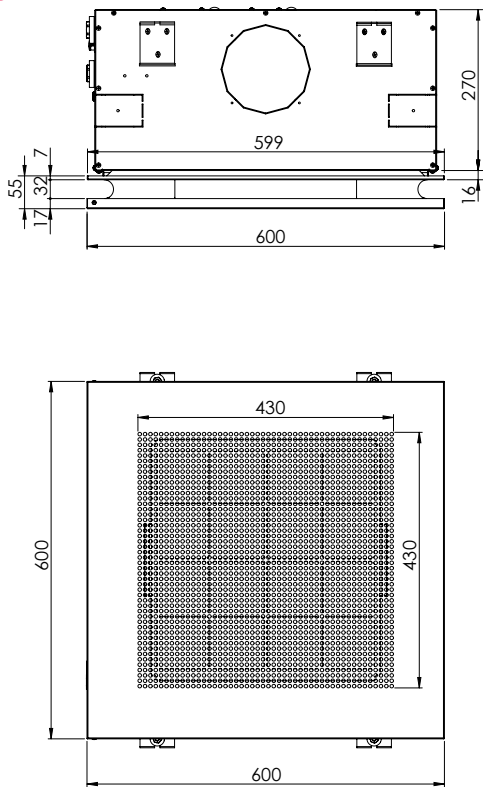
| WEIGHT/MODEL      |    | 4.2T | 4.4T | 5.2T-5.4T-5.6T | 6.2T-6.4T-6.6T |
|-------------------|----|------|------|----------------|----------------|
| With packaging    | kg |      |      | 7,0            |                |
| Without packaging | kg |      |      | 5,5            |                |

METAL AIR INLET GRID MD 600 / MD 800

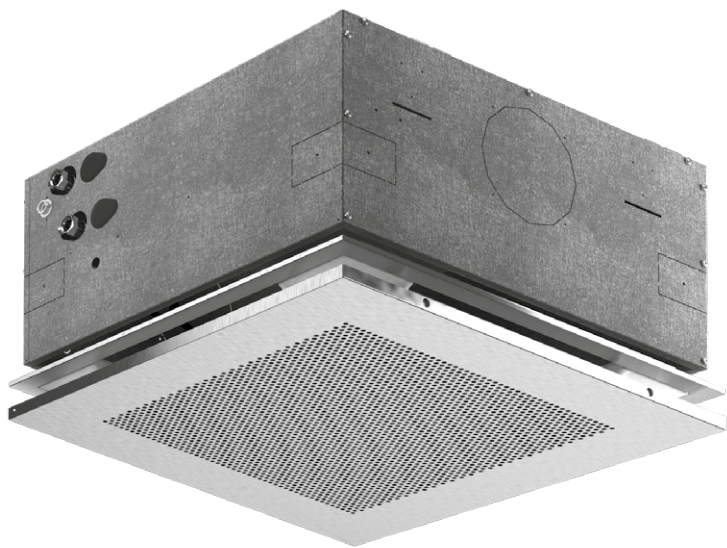
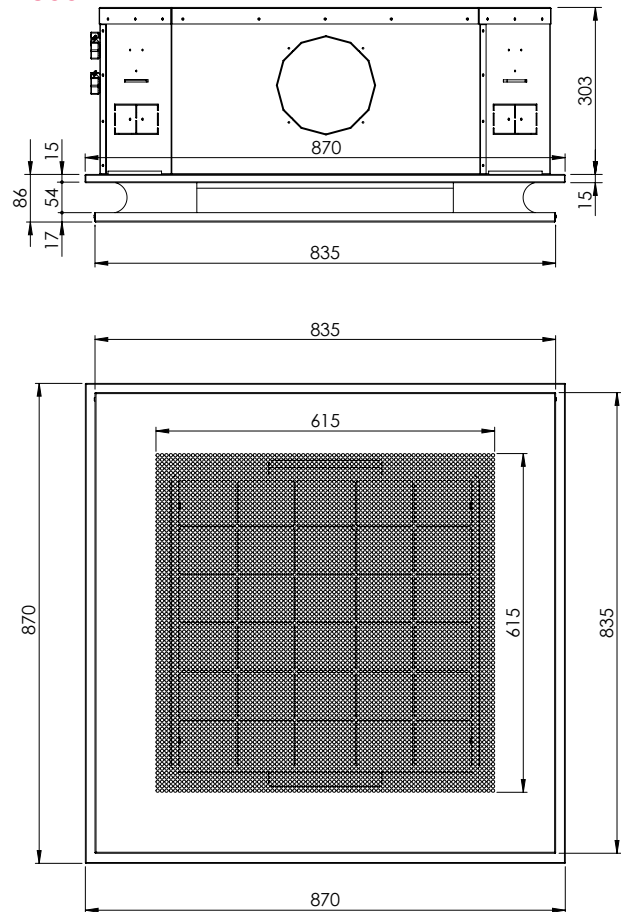
(RS receiver, Code 9066338, for metal diffuser for MB units)  
Not suitable with electronic electrostatic filter.

| MODEL  | CODE    |
|--------|---------|
| MD-600 | 9079420 |
| MD-800 | 9079417 |

MD-600



MD-800



## 2 PIPE SYSTEM

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

| MODEL                                  |       | ARMONIA-ECM 1.2T |      |      |      |      | ARMONIA-ECM 2.2T |      |      |      |      | ARMONIA-ECM 3.2T |      |      |      |      |
|----------------------------------------|-------|------------------|------|------|------|------|------------------|------|------|------|------|------------------|------|------|------|------|
| INVERTER SPEED SIGNAL (VDC)            |       | 1                | 3    | 5    | 7,5  | 10   | 1                | 3    | 5    | 7,5  | 10   | 1                | 3    | 5    | 7,5  | 10   |
| Air flow                               | m³/h  | 310              | 345  | 380  | 457  | 535  | 310              | 377  | 445  | 577  | 710  | 360              | 485  | 610  | 745  | 880  |
| Cooling total emission                 | kW    | 1,84             | 2,01 | 2,16 | 2,47 | 2,73 | 2,24             | 2,65 | 3,04 | 3,71 | 4,30 | 2,55             | 3,25 | 3,85 | 4,45 | 4,96 |
| Cooling sensible emission              | kW    | 1,35             | 1,47 | 1,60 | 1,84 | 2,07 | 1,57             | 1,87 | 2,16 | 2,67 | 3,15 | 1,80             | 2,31 | 2,79 | 3,25 | 3,68 |
| Heating emission                       | kW    | 1,85             | 2,04 | 2,22 | 2,55 | 2,87 | 2,12             | 2,56 | 2,98 | 3,68 | 4,36 | 2,46             | 3,17 | 3,85 | 4,52 | 5,15 |
| Dp Cooling                             | kPa   | 4,9              | 5,8  | 6,6  | 8,4  | 10,1 | 4,6              | 6,3  | 9,4  | 11,6 | 15,1 | 5,9              | 9,1  | 12,4 | 16,2 | 19,7 |
| Dp Heating                             | kPa   | 4,3              | 5,1  | 5,9  | 7,6  | 9,4  | 3,6              | 5,1  | 6,6  | 9,7  | 13,2 | 4,7              | 7,5  | 10,6 | 14,1 | 17,8 |
| Sound power (Lw)                       | dB(A) | 33,0             | 36,0 | 39,0 | 43,0 | 47,0 | 33,0             | 38,0 | 43,0 | 48,5 | 54,0 | 37,0             | 43,5 | 50,0 | 55,0 | 60,0 |
| Sound pressure (Lp) (1)                | dB(A) | 24,0             | 27,0 | 30,0 | 34,0 | 38,0 | 24,0             | 29,0 | 34,0 | 39,5 | 45,0 | 28,0             | 34,5 | 41,0 | 46,0 | 51,0 |
| Fan                                    | W     | 5,0              | 6,5  | 8,0  | 12,0 | 16,0 | 5,0              | 8,0  | 11,0 | 21,0 | 31,0 | 7,0              | 14,0 | 21,0 | 41,5 | 62,0 |
| Condensate drain pump power absorption | W     | 10               | 10   | 10   | 10   | 10   | 10               | 10   | 10   | 10   | 10   | 10               | 10   | 10   | 10   | 10   |
| Water content                          | l     | 1,4              | 1,4  | 1,4  | 1,4  | 1,4  | 2,1              | 2,1  | 2,1  | 2,1  | 2,1  | 2,1              | 2,1  | 2,1  | 2,1  | 2,1  |
| Length                                 | mm    | 575              | 575  | 575  | 575  | 575  | 575              | 575  | 575  | 575  | 575  | 575              | 575  | 575  | 575  | 575  |
| Depth                                  | mm    | 575              | 575  | 575  | 575  | 575  | 575              | 575  | 575  | 575  | 575  | 575              | 575  | 575  | 575  | 575  |
| Height                                 | mm    | 275              | 275  | 275  | 275  | 275  | 275              | 275  | 275  | 275  | 275  | 275              | 275  | 275  | 275  | 275  |

| MODEL                                  |       | ARMONIA-ECM 4.2T |      |      |      |      | ARMONIA-ECM 5.2T |      |      |      |       |
|----------------------------------------|-------|------------------|------|------|------|------|------------------|------|------|------|-------|
| INVERTER SPEED SIGNAL (VDC)            |       | 1                | 3    | 5    | 7,5  | 10   | 1                | 3    | 5    | 7,5  | 10    |
| Air flow                               | m³/h  | 630              | 750  | 870  | 1017 | 1165 | 710              | 920  | 1130 | 1450 | 1770  |
| Cooling total emission                 | kW    | 4,20             | 4,70 | 5,13 | 5,76 | 6,30 | 5,28             | 6,54 | 7,69 | 9,28 | 10,69 |
| Cooling sensible emission              | kW    | 3,02             | 3,39 | 3,75 | 4,23 | 4,69 | 3,68             | 4,62 | 5,50 | 6,71 | 7,83  |
| Heating emission                       | kW    | 4,27             | 4,78 | 5,30 | 6,02 | 6,70 | 4,90             | 6,18 | 7,34 | 9,00 | 10,56 |
| Dp Cooling                             | kPa   | 10,9             | 13,3 | 15,6 | 19,3 | 22,7 | 9,4              | 13,8 | 18,5 | 26,1 | 33,0  |
| Dp Heating                             | kPa   | 9,6              | 11,8 | 14,2 | 17,9 | 21,6 | 7,0              | 10,7 | 14,6 | 21,1 | 28,1  |
| Sound power (Lw)                       | dB(A) | 33,0             | 36,0 | 39,0 | 43,5 | 48,0 | 34,0             | 40,5 | 47,0 | 52,0 | 57,0  |
| Sound pressure (Lp) (1)                | dB(A) | 24,0             | 27,0 | 30,0 | 34,5 | 39,0 | 25,0             | 31,5 | 38,0 | 43,0 | 48,0  |
| Fan                                    | W     | 10,0             | 13,5 | 17,0 | 25,0 | 33,0 | 10,0             | 21,0 | 32,0 | 70,0 | 108,0 |
| Condensate drain pump power absorption | W     | 10               | 10   | 10   | 10   | 10   | 10               | 10   | 10   | 10   | 10    |
| Water content                          | l     | 3,0              | 3,0  | 3,0  | 3,0  | 3,0  | 4,0              | 4,0  | 4,0  | 4,0  | 4,0   |
| Length                                 | mm    | 820              | 820  | 820  | 820  | 820  | 820              | 820  | 820  | 820  | 820   |
| Depth                                  | mm    | 820              | 820  | 820  | 820  | 820  | 820              | 820  | 820  | 820  | 820   |
| Height                                 | mm    | 303              | 303  | 303  | 303  | 303  | 303              | 303  | 303  | 303  | 303   |

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

## 4 PIPE SYSTEM

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

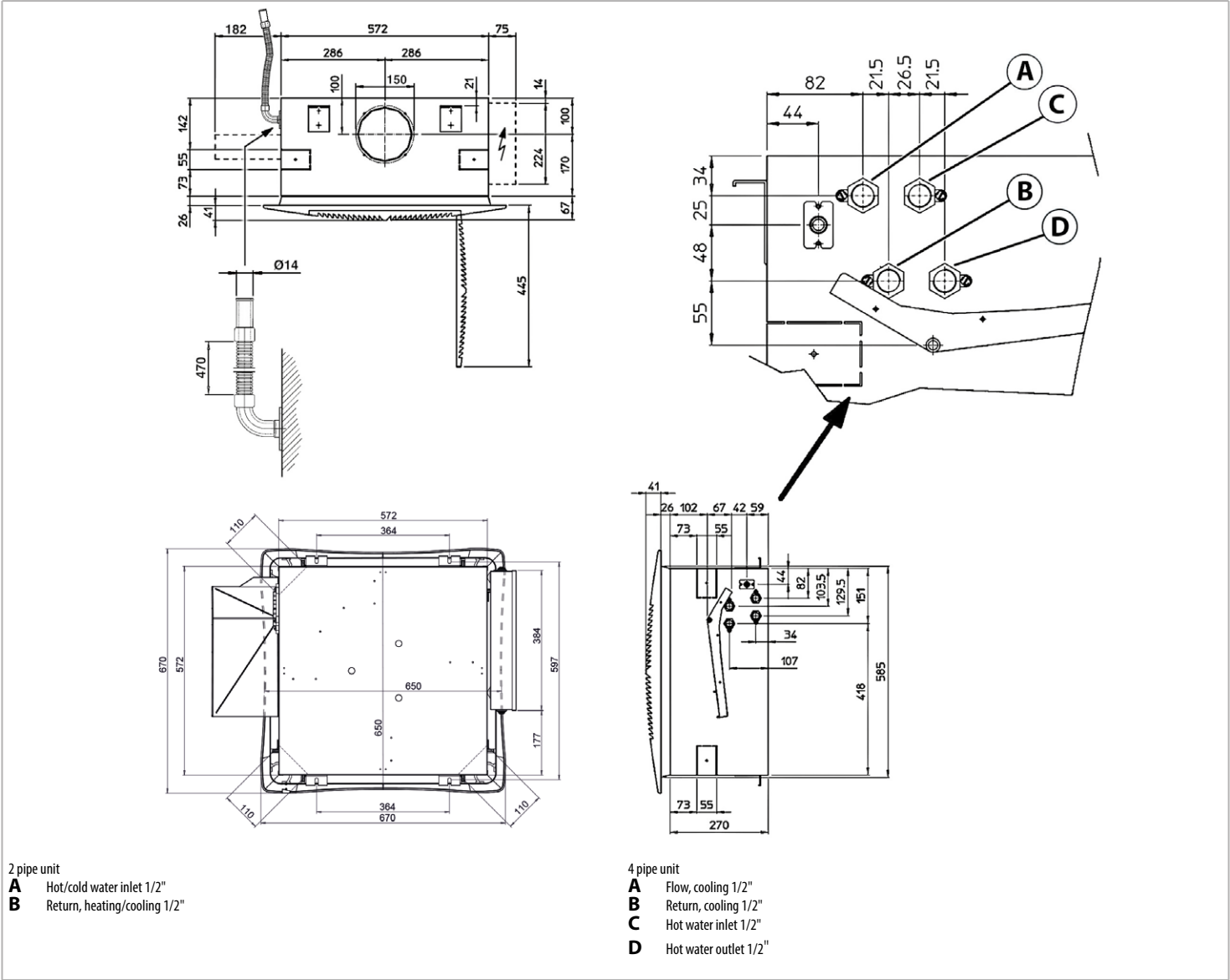
Water temperature: +65 °C E.W.T. +55 °C L.W.T.

| MODEL                                  |       | ARMONIA-ECM 1.4T |      |      |      |      | ARMONIA-ECM 2.6T |      |      |      |      | ARMONIA-ECM 3.6T |      |      |      |      |
|----------------------------------------|-------|------------------|------|------|------|------|------------------|------|------|------|------|------------------|------|------|------|------|
| INVERTER SPEED SIGNAL (VDC)            |       | 1                | 3    | 5    | 7,5  | 10   | 1                | 3    | 5    | 7,5  | 10   | 1                | 3    | 5    | 7,5  | 10   |
| Air flow                               | m³/h  | 310              | 345  | 380  | 457  | 535  | 310              | 377  | 445  | 577  | 710  | 360              | 485  | 610  | 745  | 880  |
| Cooling total emission                 | kW    | 1,85             | 2,02 | 2,17 | 2,48 | 2,75 | 2,09             | 2,46 | 2,81 | 3,39 | 3,90 | 2,37             | 2,99 | 3,51 | 4,03 | 4,47 |
| Cooling sensible emission              | kW    | 1,34             | 1,31 | 1,59 | 1,64 | 2,06 | 1,49             | 1,76 | 2,03 | 2,49 | 2,92 | 1,70             | 2,17 | 2,60 | 3,01 | 3,40 |
| Heating emission                       | kW    | 2,13             | 2,32 | 2,51 | 2,85 | 3,18 | 1,73             | 1,97 | 2,20 | 2,57 | 2,91 | 1,92             | 2,31 | 2,66 | 2,99 | 3,29 |
| Dp Cooling                             | kPa   | 4,6              | 5,4  | 6,2  | 7,9  | 9,5  | 3,3              | 4,4  | 5,6  | 7,9  | 10,3 | 4,1              | 6,3  | 8,4  | 10,9 | 13,1 |
| Dp Heating                             | kPa   | 4,6              | 5,3  | 6,1  | 7,7  | 9,4  | 2,6              | 3,3  | 4,1  | 5,4  | 6,7  | 3,2              | 4,4  | 5,7  | 7,1  | 8,4  |
| Sound power (Lw)                       | dB(A) | 33,0             | 36,0 | 39,0 | 43,0 | 47,0 | 33,0             | 38,0 | 43,0 | 48,5 | 54,0 | 37,0             | 43,5 | 50,0 | 55,0 | 60,0 |
| Sound pressure (Lp) (1)                | dB(A) | 24,0             | 27,0 | 30,0 | 34,0 | 38,0 | 24,0             | 29,0 | 34,0 | 39,5 | 45,0 | 28,0             | 34,5 | 41,0 | 46,0 | 51,0 |
| Fan                                    | W     | 5,0              | 6,5  | 8,0  | 12,0 | 16,0 | 5,0              | 8,0  | 11,0 | 21,0 | 31,0 | 7,0              | 14,0 | 21,0 | 41,5 | 62,0 |
| Condensate drain pump power absorption | W     | 10               | 10   | 10   | 10   | 10   | 10               | 10   | 10   | 10   | 10   | 10               | 10   | 10   | 10   | 10   |
| Cooling water content                  | l     | 1,4              | 1,4  | 1,4  | 1,4  | 1,4  | 1,7              | 1,7  | 1,7  | 1,7  | 1,7  | 1,7              | 1,7  | 1,7  | 1,7  | 1,7  |
| Heating water content                  | l     | 0,7              | 0,7  | 0,7  | 0,7  | 0,7  | 0,5              | 0,5  | 0,5  | 0,5  | 0,5  | 0,5              | 0,5  | 0,5  | 0,5  | 0,5  |
| Length                                 | mm    | 575              | 575  | 575  | 575  | 575  | 575              | 575  | 575  | 575  | 575  | 575              | 575  | 575  | 575  | 575  |
| Depth                                  | mm    | 575              | 575  | 575  | 575  | 575  | 575              | 575  | 575  | 575  | 575  | 575              | 575  | 575  | 575  | 575  |
| Height                                 | mm    | 275              | 275  | 275  | 275  | 275  | 275              | 275  | 275  | 275  | 275  | 275              | 275  | 275  | 275  | 275  |

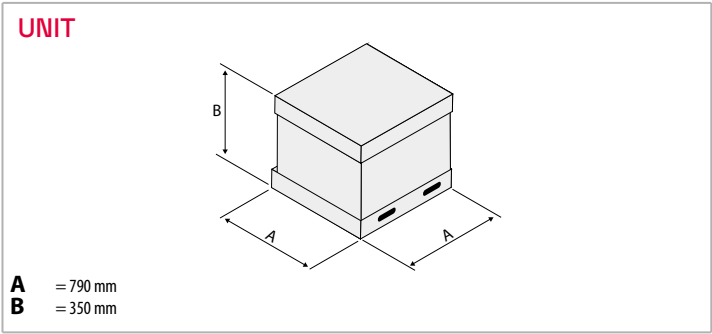
| MODEL                                  |       | ARMONIA-ECM 4.4T |      |      |      |      | ARMONIA-ECM 5.6T |      |      |      |       |
|----------------------------------------|-------|------------------|------|------|------|------|------------------|------|------|------|-------|
| INVERTER SPEED SIGNAL (VDC)            |       | 1                | 3    | 5    | 7,5  | 10   | 1                | 3    | 5    | 7,5  | 10    |
| Air flow                               | m³/h  | 630              | 750  | 870  | 1017 | 1165 | 710              | 920  | 1130 | 1450 | 1770  |
| Cooling total emission                 | kW    | 4,29             | 4,81 | 5,29 | 5,92 | 6,48 | 4,97             | 6,13 | 7,14 | 8,56 | 9,76  |
| Cooling sensible emission              | kW    | 3,07             | 3,46 | 3,82 | 4,32 | 4,80 | 3,51             | 4,37 | 5,17 | 6,27 | 7,29  |
| Heating emission                       | kW    | 5,41             | 6,04 | 6,65 | 7,46 | 8,24 | 4,58             | 5,47 | 6,27 | 7,36 | 8,33  |
| Dp Cooling                             | kPa   | 9,4              | 11,6 | 13,6 | 16,8 | 19,8 | 8,8              | 12,9 | 17,0 | 23,7 | 30,1  |
| Dp Heating                             | kPa   | 8,5              | 10,3 | 12,3 | 15,1 | 18,1 | 4,9              | 6,7  | 8,6  | 11,4 | 14,3  |
| Sound power (Lw)                       | dB(A) | 33,0             | 36,0 | 39,0 | 43,5 | 48,0 | 34,0             | 40,5 | 47,0 | 52,0 | 57,0  |
| Sound pressure (Lp) (1)                | dB(A) | 24,0             | 27,0 | 30,0 | 34,5 | 39,0 | 25,0             | 31,5 | 38,0 | 43,0 | 48,0  |
| Fan                                    | W     | 10,0             | 13,5 | 17,0 | 25,0 | 33,0 | 10,0             | 21,0 | 32,0 | 70,0 | 108,0 |
| Condensate drain pump power absorption | W     | 10               | 10   | 10   | 10   | 10   | 10               | 10   | 10   | 10   | 10    |
| Cooling water content                  | l     | 3,0              | 3,0  | 3,0  | 3,0  | 3,0  | 3,6              | 3,6  | 3,6  | 3,6  | 3,6   |
| Heating water content                  | l     | 1,4              | 1,4  | 1,4  | 1,4  | 1,4  | 1,1              | 1,1  | 1,1  | 1,1  | 1,1   |
| Length                                 | mm    | 820              | 820  | 820  | 820  | 820  | 820              | 820  | 820  | 820  | 820   |
| Depth                                  | mm    | 820              | 820  | 820  | 820  | 820  | 820              | 820  | 820  | 820  | 820   |
| Height                                 | mm    | 303              | 303  | 303  | 303  | 303  | 303              | 303  | 303  | 303  | 303   |

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

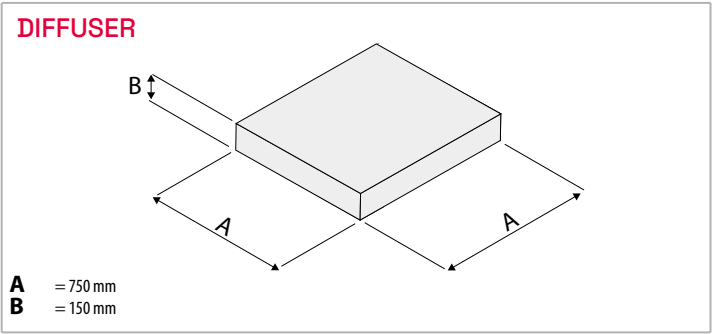
ARMONIA-ECM 1.2T-1.4T / ARMONIA-ECM 2.2T-2.6T / ARMONIA-ECM 3.2T-3.6T (600 X 600 VERSION)



PACKED UNIT

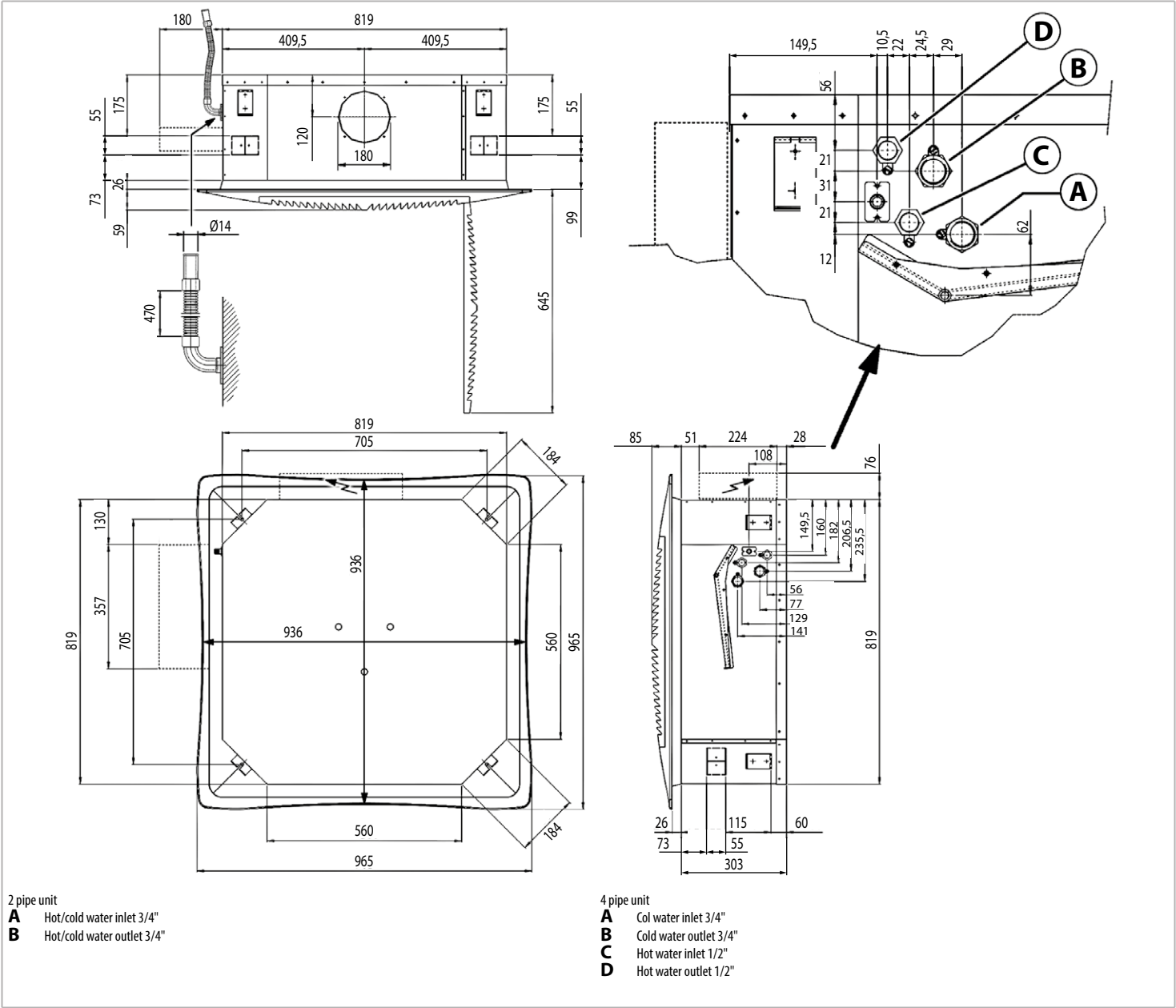


| WEIGHT/MODEL      |    | 1.2T | 1.4T | 2.2T-2.6T | 3.2T-3.6T |
|-------------------|----|------|------|-----------|-----------|
| With packaging    | kg | 20,0 | 22,0 | 21,5      | 21,0      |
| Without packaging | kg | 17,0 | 19,0 | 18,5      | 18,0      |

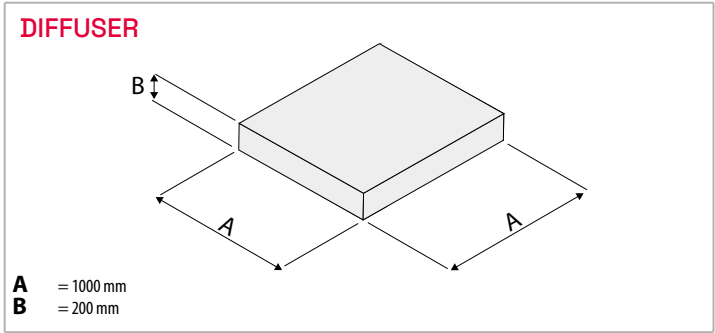
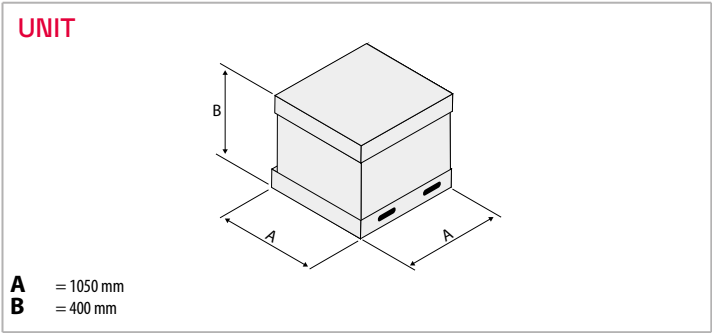


| WEIGHT/MODEL      |    | 1.2T | 1.4T | 2.2T-2.6T | 3.2T-3.6T |
|-------------------|----|------|------|-----------|-----------|
| With packaging    | kg |      | 3,5  |           |           |
| Without packaging | kg |      | 2,5  |           |           |

ARMONIA-ECM 4.2T-4.4T / ARMONIA-ECM 5.2T-5.6T (800 X 800 VERSION)



PACKED UNIT



| WEIGHT/MODEL      |    | 4.2T | 4.4T | 5.2T-5.6T |
|-------------------|----|------|------|-----------|
| With packaging    | kg | 35   | 40   |           |
| Without packaging | kg | 31   | 35   |           |

| WEIGHT/MODEL      |    | 4.2T | 4.4T | 5.2T-5.6T |
|-------------------|----|------|------|-----------|
| With packaging    | kg |      | 7,0  |           |
| Without packaging | kg |      | 5,5  |           |

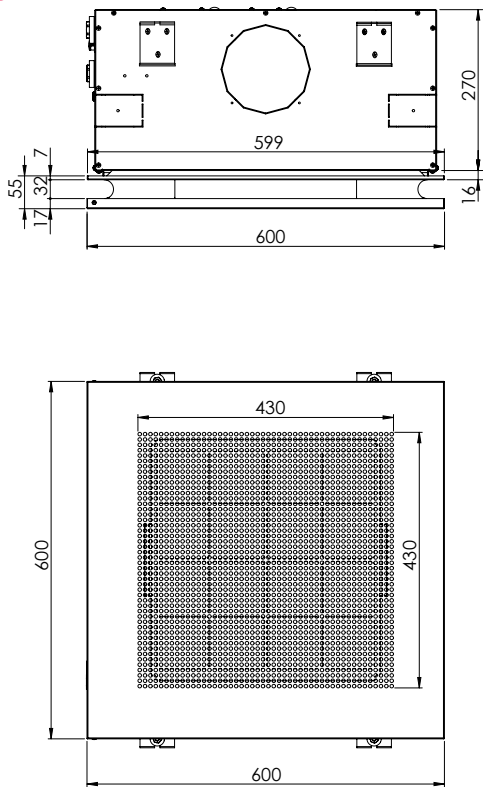


METAL AIR INLET GRID MD 600 / MD 800

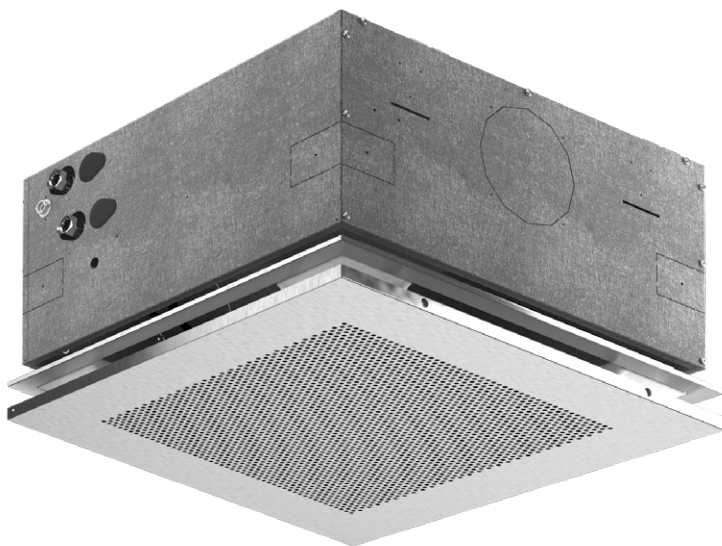
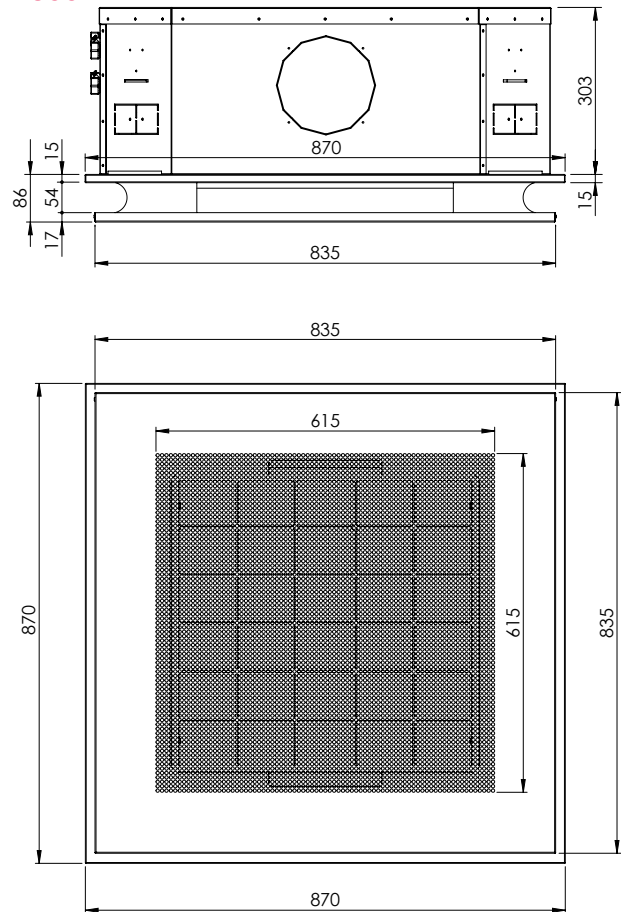
(RS receiver, Code 9066338, for metal diffuser for MB units)  
Not suitable with electronic electrostatic filter.

| MODEL  | CODE    |
|--------|---------|
| MD-600 | 9079420 |
| MD-800 | 9079417 |

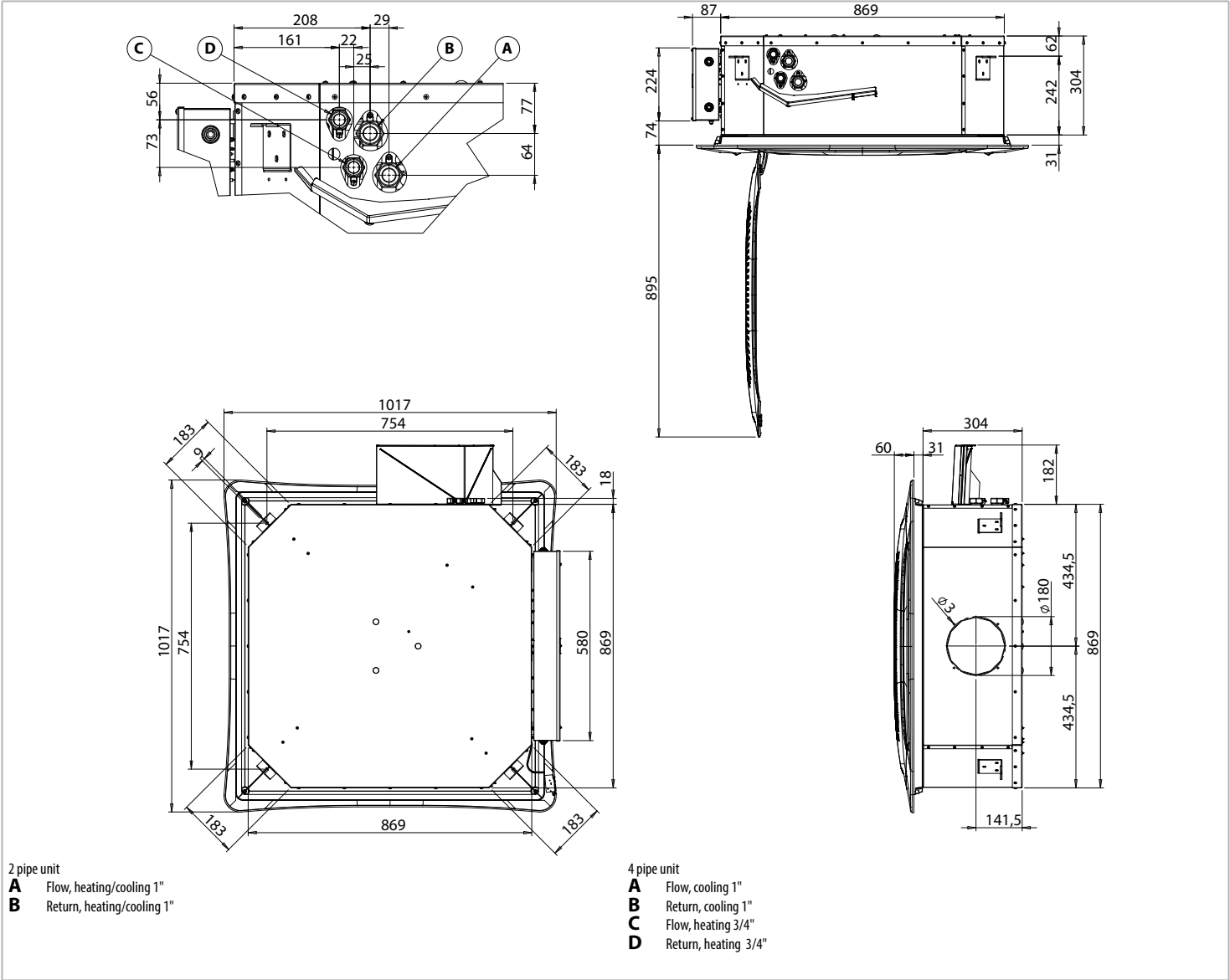
MD-600



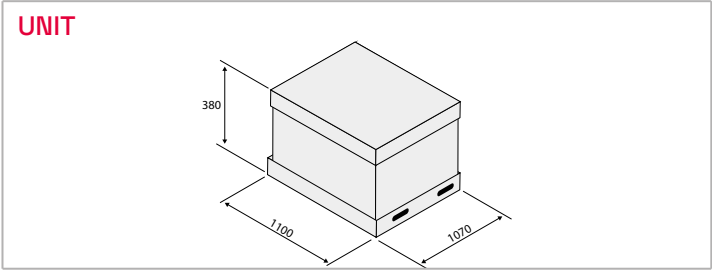
MD-800



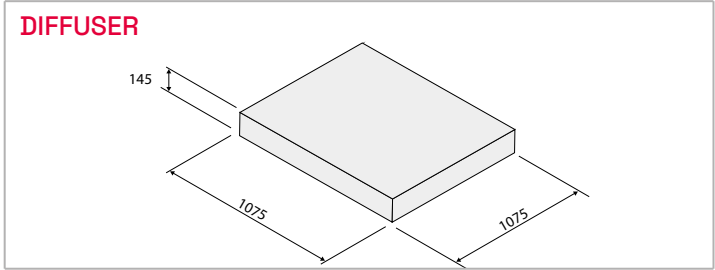
ARMONIA-ECM 7.2T-7.6T / ARMONIA-ECM 8.2T-8.6T (900 X 900 VERSION)



PACKED UNIT



| WEIGHT/MODEL      |    | 7.2T | 7.6T | 8.2T | 8.6T |
|-------------------|----|------|------|------|------|
| With packaging    | kg |      |      | 52   |      |
| Without packaging | kg |      |      | 42   |      |



| WEIGHT/MODEL      |    | 7.2T | 7.6T | 8.2T | 8.6T |
|-------------------|----|------|------|------|------|
| With packaging    | kg |      |      | 9,4  |      |
| Without packaging | kg |      |      | 7,5  |      |



## 2 PIPE SYSTEM

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

| MODEL                                  |       | ARMONIA-ECM 7-8 7.2T |      |      |       |       | ARMONIA-ECM 7-8 8.2T |      |       |       |       |
|----------------------------------------|-------|----------------------|------|------|-------|-------|----------------------|------|-------|-------|-------|
| Inverter speed signal (Vdc)            |       | 1                    | 3    | 5    | 7,5   | 10    | 1                    | 3    | 5     | 7,5   | 10    |
| Air flow                               | m³/h  | 790                  | 1040 | 1290 | 1600  | 1905  | 1025                 | 1340 | 1650  | 2060  | 2480  |
| Cooling total emission                 | kW    | 6,36                 | 7,95 | 9,43 | 11,10 | 12,60 | 7,86                 | 9,72 | 11,38 | 13,35 | 15,13 |
| Cooling sensible emission              | kW    | 4,45                 | 5,65 | 6,77 | 8,09  | 9,31  | 5,58                 | 7,00 | 8,30  | 9,88  | 11,41 |
| Heating emission                       | kW    | 6,18                 | 7,93 | 9,59 | 11,55 | 13,39 | 8,72                 | 9,91 | 11,86 | 14,29 | 16,40 |
| Dp Cooling                             | kPa   | 6,6                  | 9,8  | 13,4 | 18,0  | 22,7  | 9,6                  | 14,1 | 18,8  | 25,2  | 31,8  |
| Dp Heating                             | kPa   | 5,4                  | 8,4  | 11,8 | 16,5  | 21,5  | 8,2                  | 12,5 | 17,3  | 24,2  | 31,0  |
| Sound power (Lw)                       | dB(A) | 38                   | 44   | 49   | 54    | 58    | 47                   | 50   | 55    | 60    | 64    |
| Sound pressure (Lp) (1)                | dB(A) | 29                   | 35   | 40   | 45    | 49    | 38                   | 41   | 46    | 51    | 55    |
| Fan                                    | W     | 13                   | 22   | 35   | 59    | 93    | 21                   | 38   | 64    | 113   | 183   |
| Condensate drain pump power absorption | W     | 10                   | 10   | 10   | 10    | 10    | 10                   | 10   | 10    | 10    | 10    |
| Water content                          | l     | 4,6                  | 4,6  | 4,6  | 4,6   | 4,6   | 4,6                  | 4,6  | 4,6   | 4,6   | 4,6   |
| Length                                 | mm    | 869                  | 869  | 869  | 869   | 869   | 869                  | 869  | 869   | 869   | 869   |
| Depth                                  | mm    | 869                  | 869  | 869  | 869   | 869   | 869                  | 869  | 869   | 869   | 869   |
| Height                                 | mm    | 304                  | 304  | 304  | 304   | 304   | 304                  | 304  | 304   | 304   | 304   |

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

## 4 PIPE SYSTEM

The following standard rating conditions are used:

### COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

### HEATING

Entering air temperature: + 20 °C

Water temperature: +65 °C E.W.T. +55 °C L.W.T.

| MODEL                                  |       | ARMONIA-ECM 7-8 7.6T |      |      |       |       | ARMONIA-ECM 7-8 8.6T |      |       |       |       |
|----------------------------------------|-------|----------------------|------|------|-------|-------|----------------------|------|-------|-------|-------|
| Inverter speed signal (Vdc)            |       | 1                    | 3    | 5    | 7,5   | 10    | 1                    | 3    | 5     | 7,5   | 10    |
| Air flow                               | m³/h  | 790                  | 1040 | 1290 | 1600  | 1905  | 1025                 | 1340 | 1650  | 2060  | 2480  |
| Cooling total emission                 | kW    | 6,07                 | 7,53 | 8,86 | 10,35 | 11,61 | 7,45                 | 9,10 | 10,59 | 12,30 | 13,59 |
| Cooling sensible emission              | kW    | 4,33                 | 5,46 | 6,53 | 7,74  | 8,87  | 5,40                 | 6,73 | 7,96  | 9,44  | 10,68 |
| Heating emission                       | kW    | 6,01                 | 7,27 | 8,40 | 9,63  | 10,55 | 7,19                 | 8,62 | 9,80  | 11,05 | 12,17 |
| Dp Cooling                             | kPa   | 7,0                  | 10,3 | 13,8 | 18,3  | 22,6  | 10,1                 | 14,5 | 19,1  | 25,2  | 30,4  |
| Dp Heating                             | kPa   | 7,2                  | 10,2 | 13,2 | 16,9  | 19,9  | 10,0                 | 13,8 | 17,4  | 21,6  | 25,7  |
| Sound power (Lw)                       | dB(A) | 38                   | 44   | 49   | 54    | 58    | 47                   | 50   | 55    | 60    | 64    |
| Sound pressure (Lp) (1)                | dB(A) | 29                   | 35   | 40   | 45    | 49    | 38                   | 41   | 46    | 51    | 55    |
| Fan                                    | W     | 13                   | 22   | 35   | 59    | 93    | 21                   | 38   | 64    | 113   | 183   |
| Condensate drain pump power absorption | W     | 10                   | 10   | 10   | 10    | 10    | 10                   | 10   | 10    | 10    | 10    |
| Cooling water content                  | l     | 3,6                  | 3,6  | 3,6  | 3,6   | 3,6   | 3,6                  | 3,6  | 3,6   | 3,6   | 3,6   |
| Heating water content                  | l     | 1,2                  | 1,2  | 1,2  | 1,2   | 1,2   | 1,2                  | 1,2  | 1,2   | 1,2   | 1,2   |
| Length                                 | mm    | 869                  | 869  | 869  | 869   | 869   | 869                  | 869  | 869   | 869   | 869   |
| Depth                                  | mm    | 869                  | 869  | 869  | 869   | 869   | 869                  | 869  | 869   | 869   | 869   |
| Height                                 | mm    | 304                  | 304  | 304  | 304   | 304   | 304                  | 304  | 304   | 304   | 304   |

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.