



# UVR & UVR-TOP





## UVR & UVR-TOP

Non-residential ventilator unit with dual flow and high yield heat recovery.

### PERFORMANCE

Equipped with a rotary enthalpic heat exchanger (rotary recuperator) in aluminium (Eurovent certified) and electronic backward blade ventilators.

### STRUCTURE

UVR & UVR-TOP are manufactured using a profiled extruded aluminium frame and 45 mm thick sandwich panels, insulated in polyurethane foam. The panels and inner parts are manufactured in zinc magnesium, material that ensures high strength against corrosion and oxidation. A pair of panels with hinged opening eases access to the filters ePM1 55% (F7) for the renewed air flow and ePM10 50% (M5) for the extraction air flow). UVR & UVR-TOP are designed to be installed inside or outside buildings (UVR-TOP, if installed outside, must be installed under cover); it is supplied with 100 mm high aluminium bases for installation on the floor. Equipped with an **ENTHALPIC** rotary heat exchanger (regenerative recuperator) in aluminum (Eurovent certified), available on request also in ABSORPTION version with greater efficiency of humidity recovery; Available in 6 sizes and 2 versions: the standard version T3 TB3 and, **on request**, the version with thermal break T2 TB2. The units can be equipped with air post-treatment systems, inside or outside the unit, such as: hot water battery, electrical heater with variable speed. If the post treatment is external, modules similar to the unit are added.

### CONTROLS

UVR & UVR-TOP was supplied with an electric box and control system; it is available in a version equipped with EVO-PH control and a version equipped with EVOD-PH-IP control prepared for complete integration in home automation systems (Modbus protocol with Ethernet connection or, on request, with the addition of connection RS485). The new version of our control systems enables extremely easy and rapid passage from a control system to another, even after installation with the single replacement of the remote panel.

The EVO-PH control has a coloured, backlit touch screen interface with intuitive viewing of the working status of the machine. It enables precise adjustment of ventilator speed and has a weekly, time schedule for automatic management of the ventilators. It can be controlled by an external switch to activate the booster function, it can automatically adjust the air flow rate if connected to an air quality probe, it can manage any air post treatment accessories, it automatically manages the bypass and prevents heat exchanger freezing by managing the speed of the ventilators or, if installed, an electrical pre-heating resistor (optional accessory outside the machine); it signals to the user the need to replace the filters (the clogging status of the filters is monitored by a pair of different pressure switches, supplied as standard) or an anomaly, indicating the origin. With the addition of optional accessories (COP kit and CAV kit installed on the channel) you can manage the ventilation machine in constant pressure or constant flow rate mode.

The EVOD-PH-IP control has the same characteristics as the EVO-PH version with the addition of Modbus communication protocol which allows full control of the machine by the supervision software of the home automation system. The implemented webserver allows interaction with the machine, even with an internet browser of a device connected (even from remote) to the home automation system in which the machine is inserted.

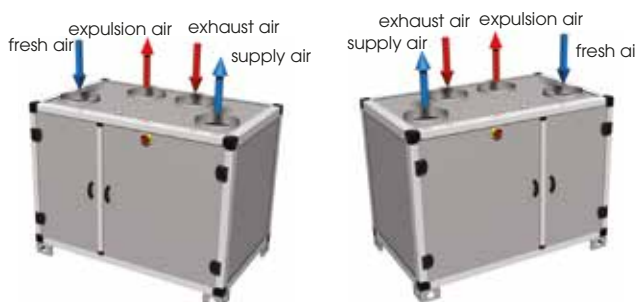
### ACCESSORIES

The units can be equipped with other accessories such as:

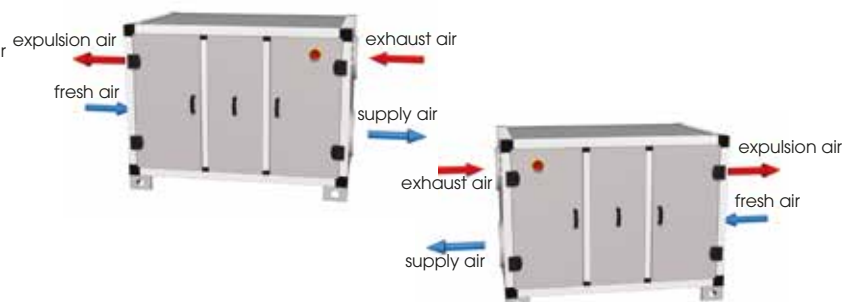
- . Available roof only for UVR unit
- . R.H. of probe, CO2 or CO2/VOC
- . Operating kit pressure or constant flow
- . grilles and damper

For a more complete view of the characteristics of the control panels, please read the specific manuals

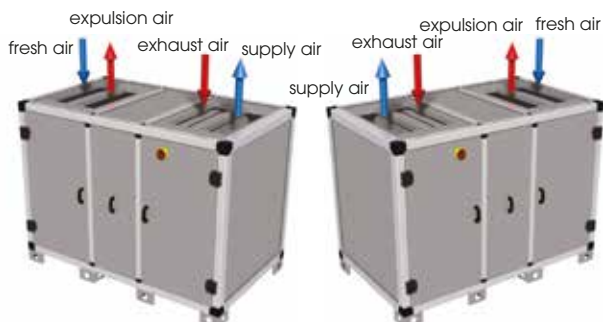
UVR-TOP 1 and 2 standard and mirrored configuration



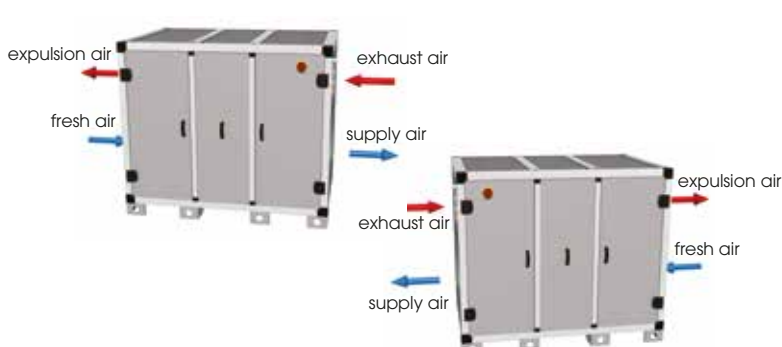
UVR 1 and 2 standard and mirrored configuration



UVR-TOP from size 3 to 6 standard and mirrored configuration



UVR from size 3 to 6 standard and mirrored configuration



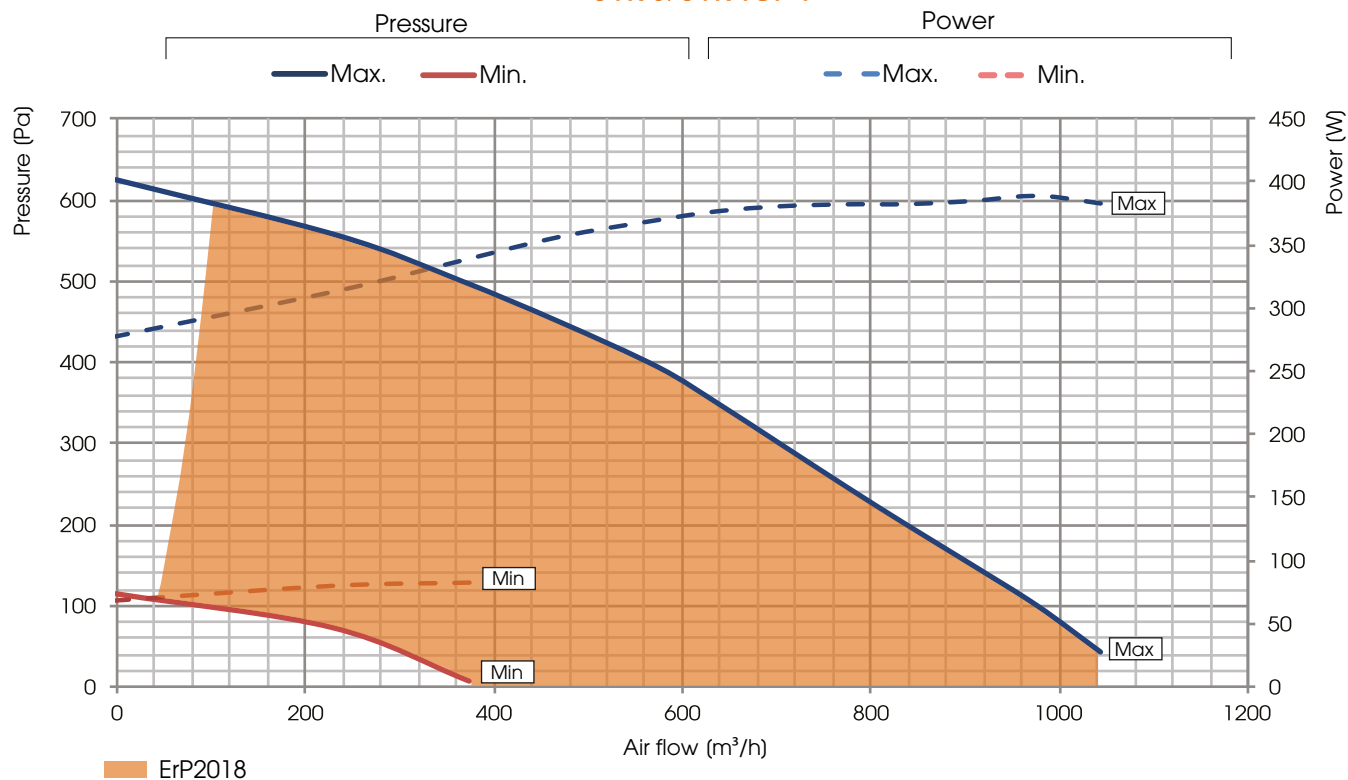
Rotary heat exchanger made of aluminum manufactured by KLINGENBURG  
KLINGENBURG participates in the Eurovent Certification Program



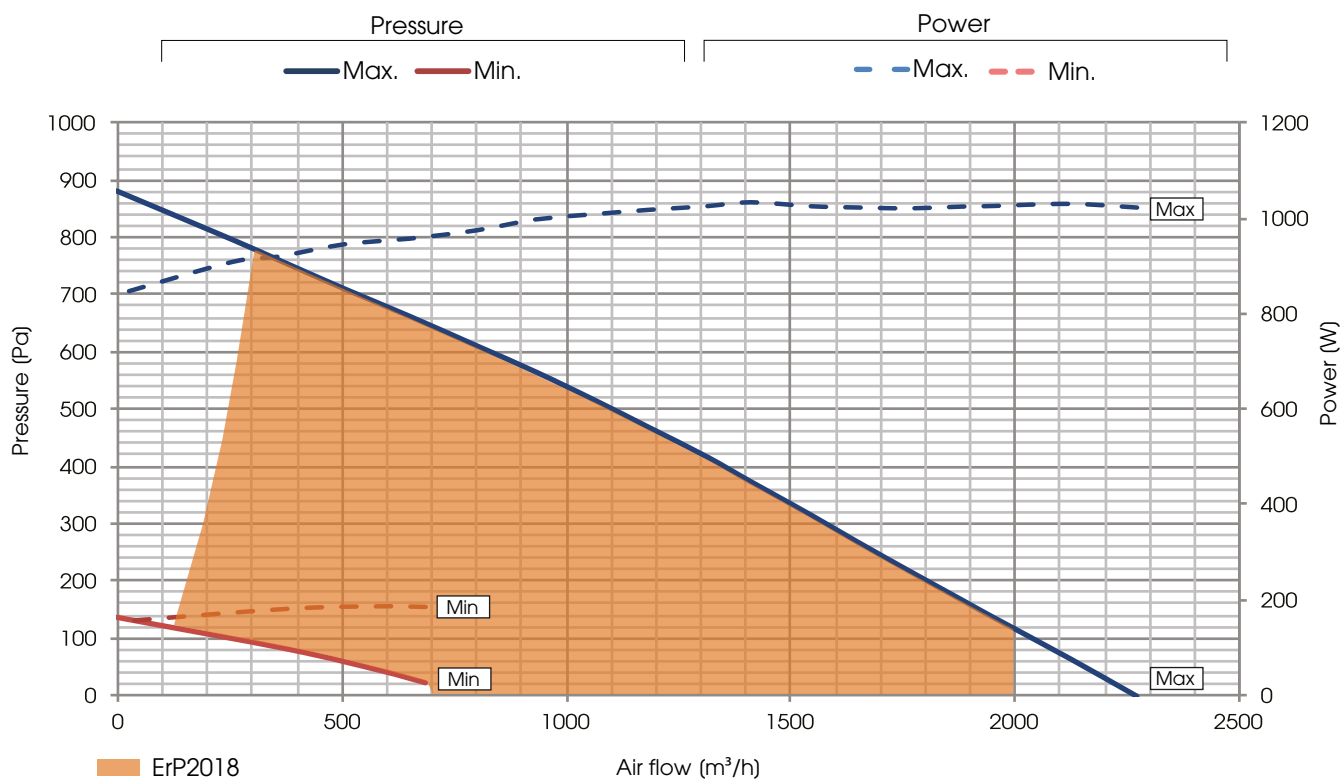
## PERFORMANCES (UNI EN 13141-7)

The unit must be ducted properly: UTEK authorizes the use only according to its performance diagram shown into this catalogue  
The declared performances are with CLEAN filters, and guaranteed ONLY with the original filters UTEK low pressure drop.

### UVR & UVR-TOP 1



### UVR & UVR-TOP 2

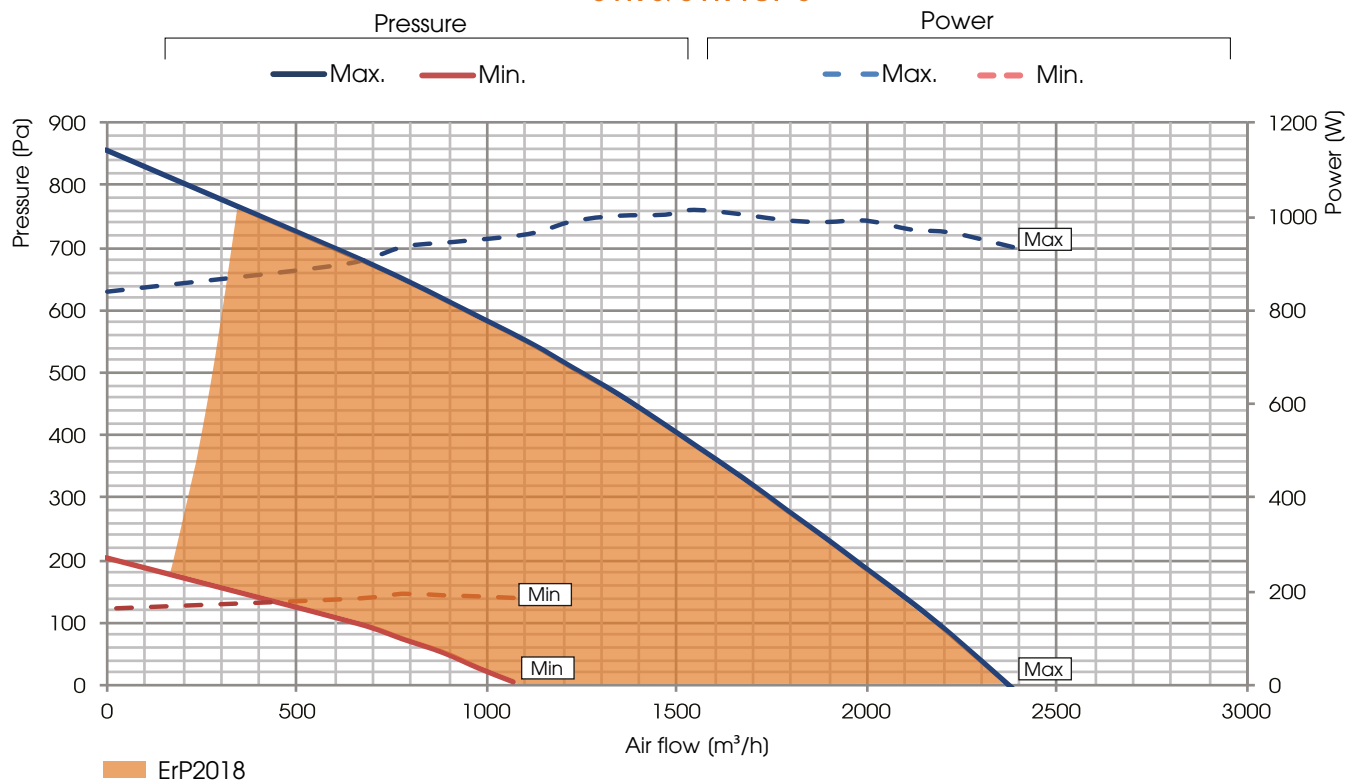




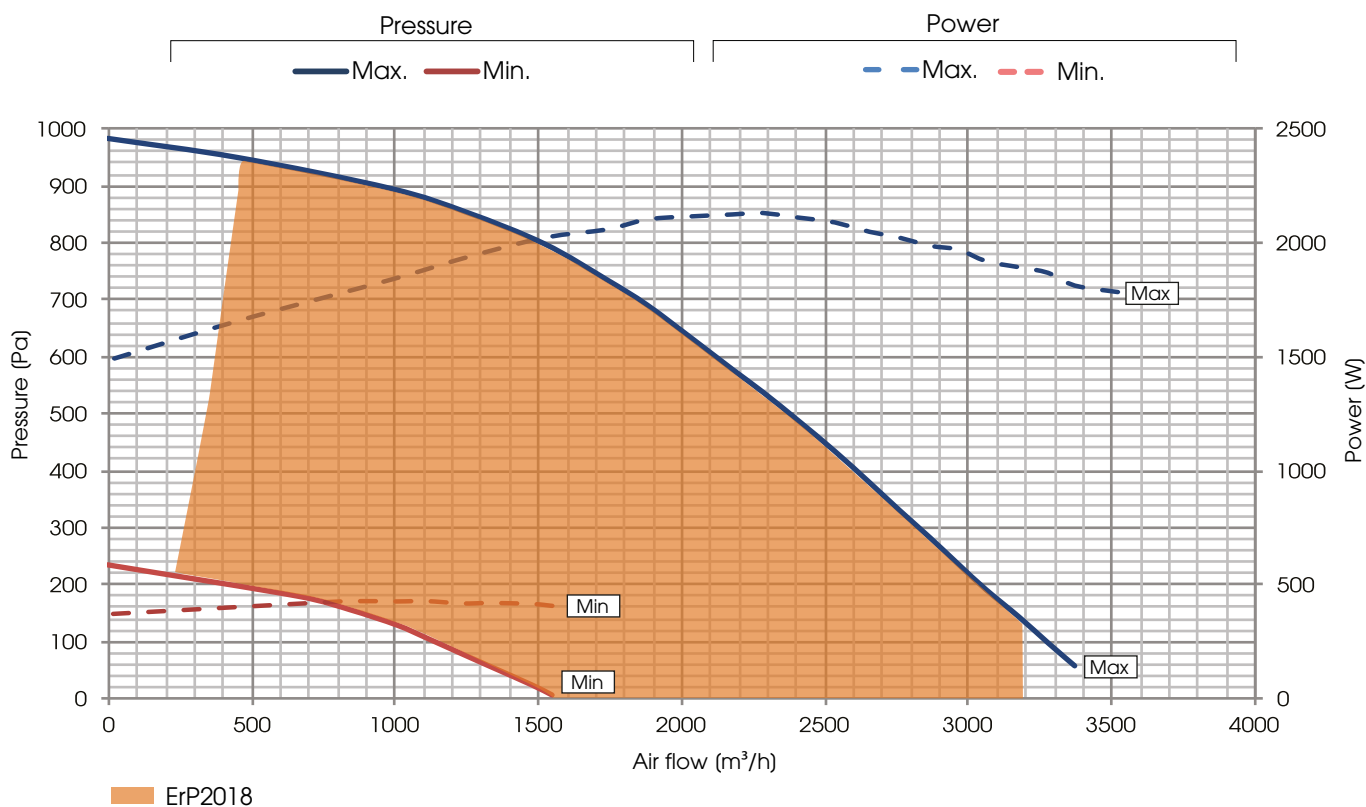
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### UVR & UVR-TOP 3



### UVR & UVR-TOP 4

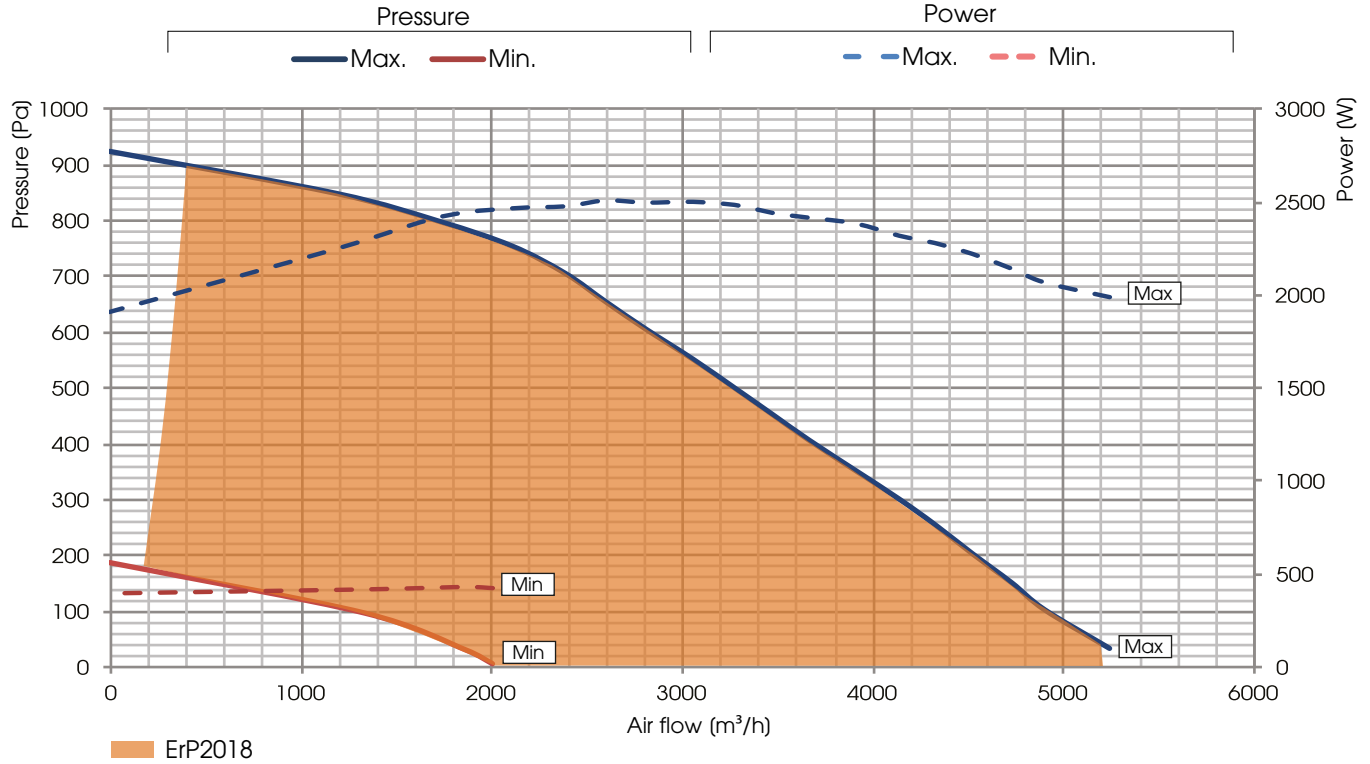




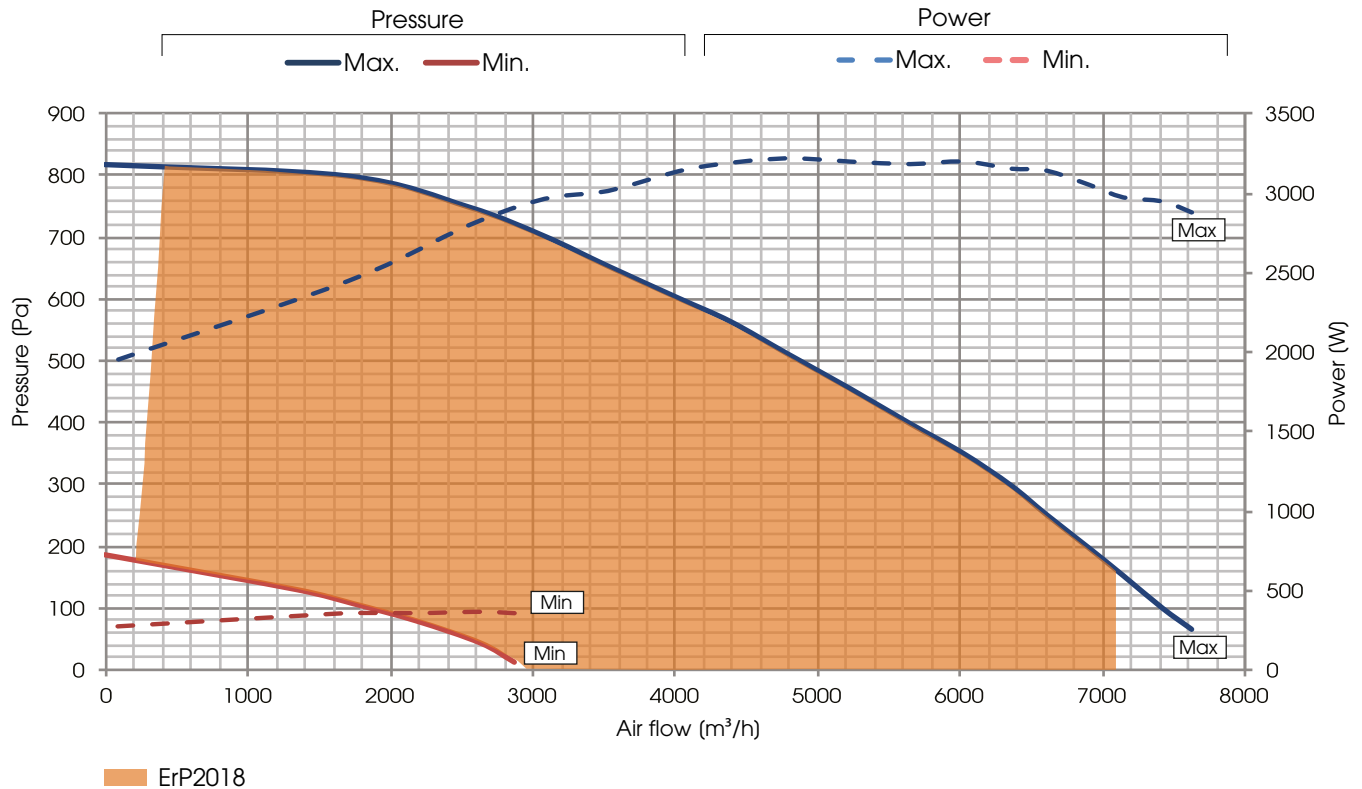
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### UVR & UVR-TOP 5



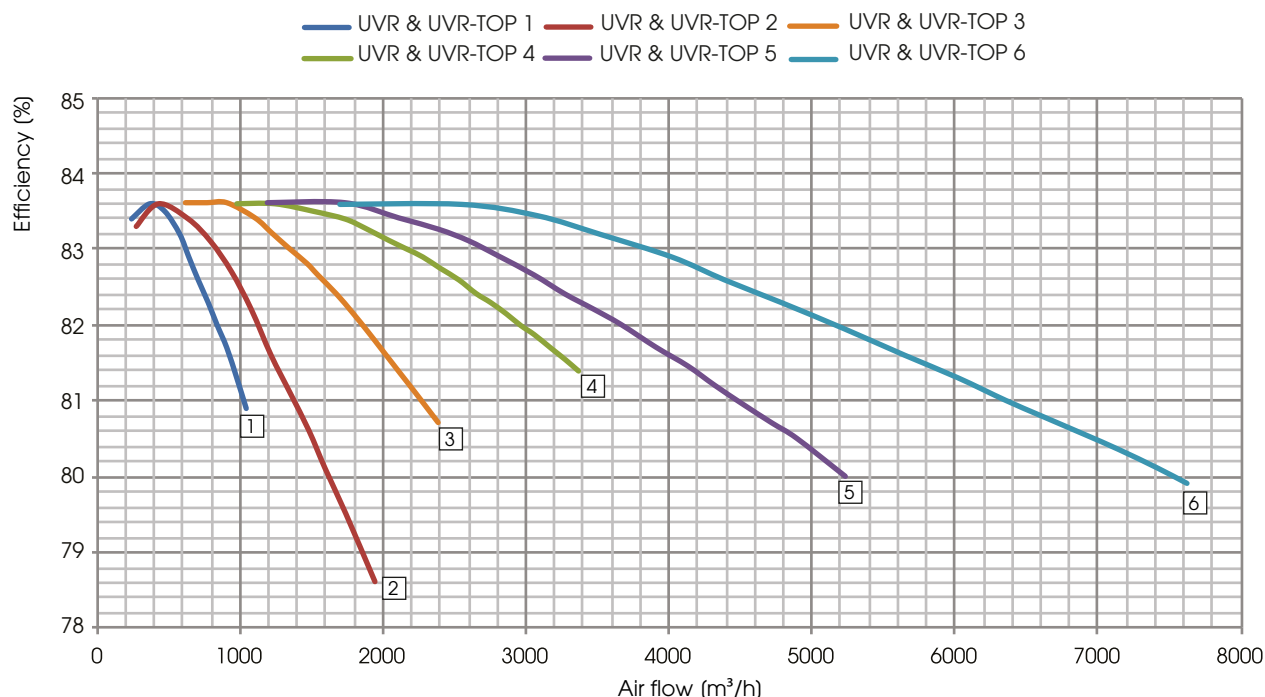
### UVR & UVR-TOP 6





## HEAT RECOVERY PERFORMANCE (sensible efficiency) / TEMPERATURE (°)

Values referred to the following conditions (UNI EN 308:1998): T<sub>bs</sub> external air 5°C; U.R. external 72%; T<sub>bs</sub> environment 25°C; U.R. environment 38%



(\*) contact us for the RECOVERY EFFICIENCY OF LATENT HEAT / HUMIDITY (\*)

## ECODESIGN

| UNIT            | $\eta_{t,nvr}$ (%) | $q_{nom}$ (m³/s) | $\Delta p_{s,ext}$ (Pa) | P(kW) | SFP <sub>int</sub> (W/(m³/s)) | SFP <sub>int,lim 2016</sub> (W/(m³/s)) | SFP <sub>int,lim 2018</sub> (W/(m³/s)) | SPEED FRONT (m/s) | $\Delta p_{s,int}$ (Pa) | $\eta_{fan}$ (%) | * Internal LEAKAGE (%) | * External LEAKAGE (%) |
|-----------------|--------------------|------------------|-------------------------|-------|-------------------------------|----------------------------------------|----------------------------------------|-------------------|-------------------------|------------------|------------------------|------------------------|
| UVR & UVR-TOP 1 | 81,2               | 0,27             | 100                     | 0,35  | 804                           | 1585                                   | 1305                                   | 1,09              | 434                     | 53,8             | -                      | 4,3                    |
| UVR & UVR-TOP 2 | 78,2               | 0,57             | 100                     | 0,95  | 1101                          | 1451                                   | 1171                                   | 1,54              | 525                     | 48,8             | -                      | 2,0                    |
| UVR & UVR-TOP 3 | 81,2               | 0,61             | 100                     | 0,92  | 908                           | 1534                                   | 1254                                   | 1,16              | 392                     | 43,3             | -                      | 2,2                    |
| UVR & UVR-TOP 4 | 81,7               | 0,88             | 150                     | 1,71  | 1212                          | 1510                                   | 1230                                   | 1,25              | 629                     | 52,1             | -                      | 2,0                    |
| UVR & UVR-TOP 5 | 80,5               | 1,36             | 100                     | 2,13  | 1008                          | 1400                                   | 1120                                   | 1,95              | 558                     | 60,0             | -                      | 1,4                    |
| UVR & UVR-TOP 6 | 80,6               | 1,91             | 200                     | 2,19  | 1013                          | 1322                                   | 1042                                   | 2,19              | 816                     | 70,0             | -                      | 1,7                    |

\* Compared to  $q_{nom}$

## VALUES ACCORDING UNI EN 1886: 2008

| UNIT            | CASING STRENGTH | CASING LEAKAGE | FILTER CLASS | THERMAL TRANSMITTANCE | THERMAL BRIDGE |
|-----------------|-----------------|----------------|--------------|-----------------------|----------------|
| UVR & UVR-TOP 1 | D1 (M)          | L3 (M)         | F7 (M)       | T3 (M)                | TB3 (M)        |
| UVR & UVR-TOP 2 | D1 (M)          | L3 (M)         | F7 (M)       | T3 (M)                | TB3 (M)        |
| UVR & UVR-TOP 3 | D1 (M)          | L3 (M)         | F7 (M)       | T3 (M)                | TB3 (M)        |
| UVR & UVR-TOP 4 | D1 (M)          | L3 (M)         | F7 (M)       | T3 (M)                | TB3 (M)        |
| UVR & UVR-TOP 5 | D1 (M)          | L3 (M)         | F7 (M)       | T3 (M)                | TB3 (M)        |
| UVR & UVR-TOP 6 | D1 (M)          | L3 (M)         | F7 (M)       | T3 (M)                | TB3 (M)        |

## TEST LEAKAGE (UNI EN 13141-7)

|          |                            | LEAKAGE CLASSIFICATION |                 |                 |                 |                 |                 |
|----------|----------------------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| LEAKAGE  | TEST CONDITIONS            | UVR & UVR-TOP 1        | UVR & UVR-TOP 2 | UVR & UVR-TOP 3 | UVR & UVR-TOP 4 | UVR & UVR-TOP 5 | UVR & UVR-TOP 6 |
| EXTERNAL | Positive pressure 400 Pa   | A2                     | A2              | A1              | A1              | A1              | A1              |
| EXTERNAL | Negative pressure 400 Pa   | A2                     | A2              | A1              | A1              | A1              | A1              |
| INTERNAL | Pressure difference 250 Pa | ND                     | ND              | ND              | ND              | ND              | ND              |



## NOISE LEVEL

Lw Sound power level taken in accordance to UNI EN ISO 3747 - CLASS 3

|                 | NOISE FROM THE CASE (dB) |        |        |         |         |         |         |                      |
|-----------------|--------------------------|--------|--------|---------|---------|---------|---------|----------------------|
|                 | 125 Hz                   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | L <sub>w</sub> dB(A) |
| UVR & UVR-TOP 1 | 63,2                     | 68,9   | 63,9   | 59,2    | 55,3    | 50,0    | 53,3    | 65,9                 |
| UVR & UVR-TOP 2 | 74,0                     | 76,5   | 68,5   | 62,6    | 59,2    | 49,0    | 51,2    | 71,3                 |
| UVR & UVR-TOP 3 | 72,0                     | 76,0   | 68,5   | 64,7    | 60,0    | 52,5    | 56,2    | 71,5                 |
| UVR & UVR-TOP 4 | 83,2                     | 78,6   | 75,2   | 68,7    | 63,6    | 57,1    | 59,9    | 76,3                 |
| UVR & UVR-TOP 5 | 80,4                     | 79,7   | 71,2   | 63,1    | 57,8    | 54,8    | 56,8    | 74,1                 |
| UVR & UVR-TOP 6 | 77,6                     | 80,8   | 72,4   | 66,3    | 59,0    | 57,8    | 57,3    | 75,1                 |

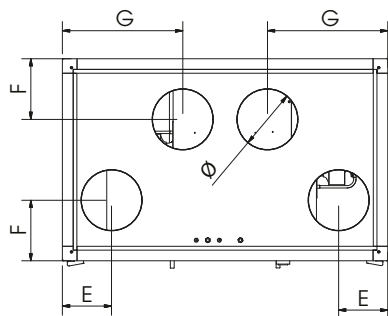
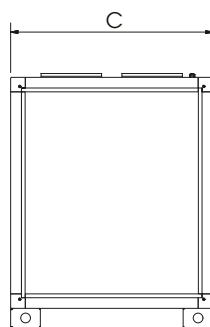
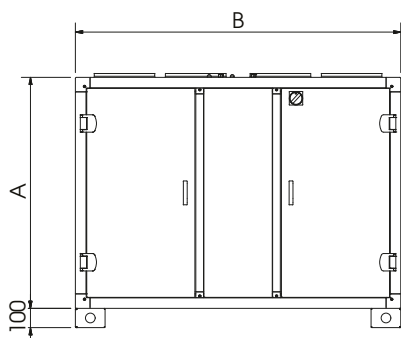
|                 | NOISE IN THE DUCT (dB) |        |        |         |         |         |         |                      |
|-----------------|------------------------|--------|--------|---------|---------|---------|---------|----------------------|
|                 | 125 Hz                 | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | L <sub>w</sub> dB(A) |
| UVR & UVR-TOP 1 | 63,8                   | 73,8   | 69,0   | 63,6    | 62,6    | 60,4    | 69,9    | 73,2                 |
| UVR & UVR-TOP 2 | 68,0                   | 89,2   | 80,3   | 72,9    | 69,4    | 67,5    | 70,2    | 83,3                 |
| UVR & UVR-TOP 3 | 67,7                   | 82,2   | 78,4   | 69,6    | 66,4    | 67,1    | 69,5    | 79,2                 |
| UVR & UVR-TOP 4 | 71,9                   | 88,3   | 86,3   | 82,5    | 77,4    | 75,7    | 81,0    | 88,4                 |
| UVR & UVR-TOP 5 | 77,9                   | 85,2   | 79,8   | 75,4    | 67,4    | 70,5    | 74,3    | 82,3                 |
| UVR & UVR-TOP 6 | 84,8                   | 84,7   | 79,2   | 72,2    | 68,6    | 72,4    | 69,2    | 81,6                 |

## ELECTRICAL DATA

| MATCHING        | FAN       |               |                 |                  | UNIT UVR-TOP  |                 |                  |
|-----------------|-----------|---------------|-----------------|------------------|---------------|-----------------|------------------|
|                 | Power (W) | Supply        | Max current.(A) | Insulation class | Supply        | Max current.(A) | Insulation class |
| UVR & UVR-TOP 1 | 2 x 170   | 230V 50 Hz 1F | 2 x 1,4         | IP54 CLASS B     | 230V 50 Hz 1F | 2,9             | IP 20            |
| UVR & UVR-TOP 2 | 2 x 448   | 230V 50 Hz 1F | 2 x 2,8         | IP54 CLASS B     | 230V 50 Hz 1F | 6,5             | IP 20            |
| UVR & UVR-TOP 3 | 2 x 448   | 230V 50 Hz 1F | 2 x 2,8         | IP54 CLASS B     | 230V 50 Hz 1F | 6,1             | IP 20            |
| UVR & UVR-TOP 4 | 2 x 1000  | 400V 50 Hz 3F | 2 x 1,6         | IP54 CLASS B     | 400V 50 Hz 3F | 3,8             | IP 20            |
| UVR & UVR-TOP 5 | 2 x 1100  | 400V 50 Hz 3F | 2 x 1,7         | IP55 CLASS F     | 400V 50 Hz 3F | 4,4             | IP 20            |
| UVR & UVR-TOP 6 | 2 x 1740  | 400V 50 Hz 3F | 2 x 2,7         | IP54 CLASS B     | 400V 50 Hz 3F | 5,5             | IP 20            |

## DIMENSIONS (mm) WEIGHT (kg)

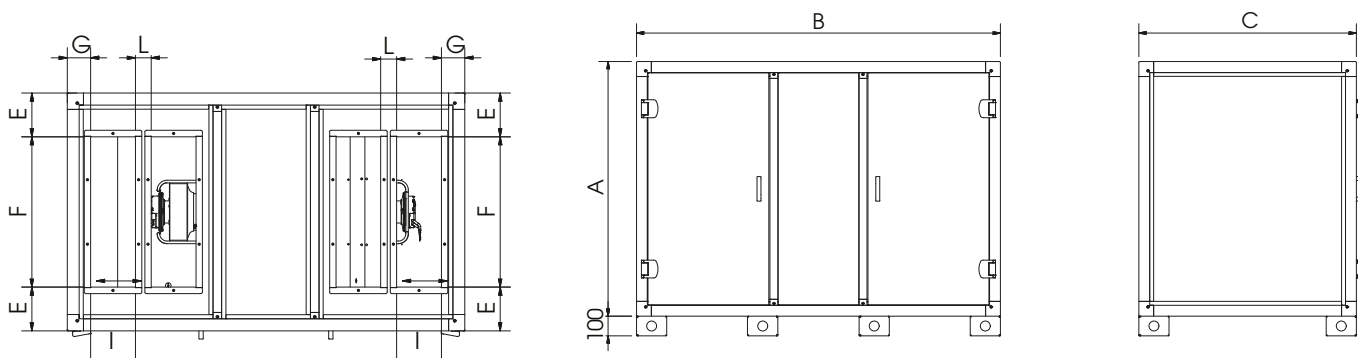
UVR-TOP size 1 and 2



| UNIT      | Dimensions (mm) |      |      |     |     |     |     |             |
|-----------|-----------------|------|------|-----|-----|-----|-----|-------------|
|           | A               | B    | C    | Ø   | E   | F   | G   | Weight (kg) |
| UVR-TOP 1 | 1120            | 1450 | 808  | 250 | 212 | 257 | 532 | 190         |
| UVR-TOP 2 | 1200            | 1690 | 1050 | 315 | 255 | 315 | 625 | 240         |

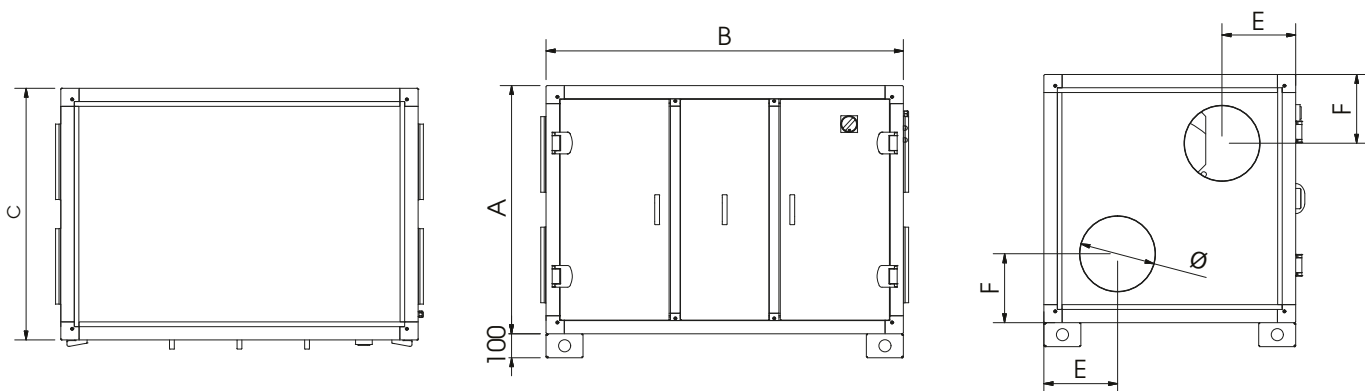


## UVR-TOP from size 3 to 6



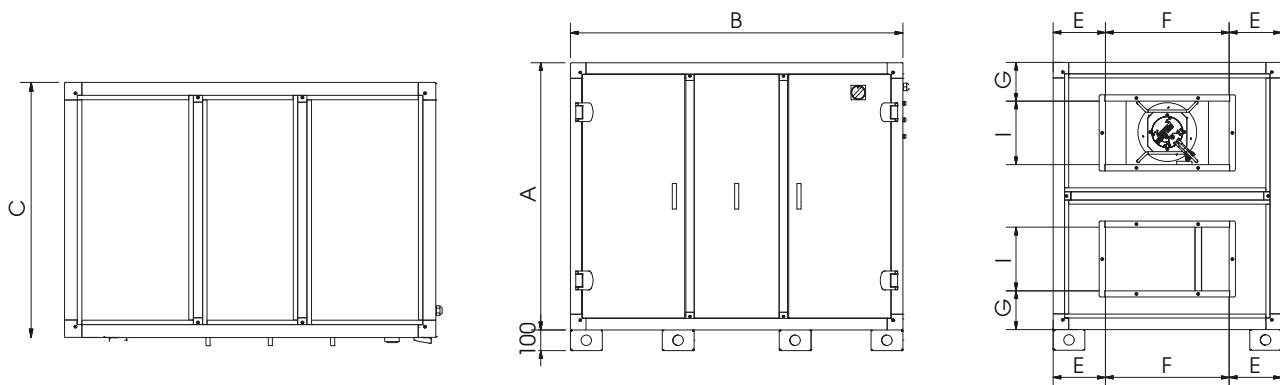
| MODEL     | Dimensions (mm) |      |      |     |      |     |     |     | Weight (kg) |
|-----------|-----------------|------|------|-----|------|-----|-----|-----|-------------|
| UVR-TOP 3 | 1294            | 1850 | 1106 | 203 | 700  | 109 | 208 | 74  | 300         |
| UVR-TOP 4 | 1405            | 2000 | 1356 | 178 | 1000 | 119 | 208 | 74  | 350         |
| UVR-TOP 5 | 1530            | 2300 | 1482 | 241 | 1000 | 109 | 308 | 66  | 400         |
| UVR-TOP 6 | 1780            | 2600 | 1732 | 266 | 1200 | 119 | 308 | 120 | 530         |

## DIMENSIONS (mm) WEIGHT (kg) UVR size 1 and 2



| MODEL | Dimensions (mm) |      |      |     |     |     | Weight (kg) |
|-------|-----------------|------|------|-----|-----|-----|-------------|
| UVR 1 | 923             | 1344 | 808  | 250 | 277 | 257 | 160         |
| UVR 2 | 1035            | 1490 | 1056 | 315 | 307 | 287 | 200         |

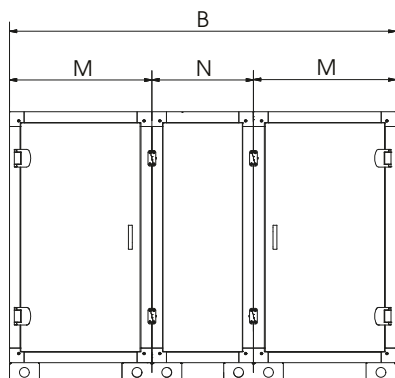
## Dimensions UVR from size 3 to 6



| MODEL | Dimensions (mm) |      |      |     |      |     |     |  | Weight (kg) |
|-------|-----------------|------|------|-----|------|-----|-----|--|-------------|
| UVR 3 | 1294            | 1610 | 1106 | 253 | 600  | 188 | 308 |  | 260         |
| UVR 4 | 1405            | 1700 | 1356 | 328 | 700  | 165 | 408 |  | 320         |
| UVR 5 | 1530            | 2020 | 1482 | 341 | 800  | 196 | 408 |  | 390         |
| UVR 6 | 1780            | 2400 | 1732 | 366 | 1000 | 209 | 508 |  | 520         |



Dimensions of UVR and UVR-TOP divided into blocks  
from size 3 to 6

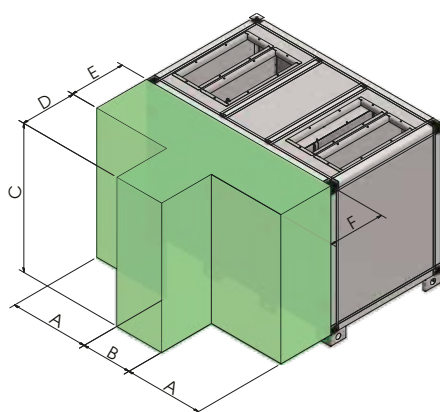


| MODEL     | Dimensions (mm) |      |     |
|-----------|-----------------|------|-----|
|           | B               | M    | N   |
| UVR 3     | 1753            | 614  | 525 |
| UVR 4     | 1843            | 634  | 575 |
| UVR 5     | 2163            | 779  | 605 |
| UVR 6     | 2543            | 914  | 715 |
| UVR-TOP 3 | 1993            | 734  | 525 |
| UVR-TOP 4 | 2143            | 784  | 575 |
| UVR-TOP 5 | 2443            | 919  | 605 |
| UVR-TOP 6 | 2743            | 1014 | 715 |

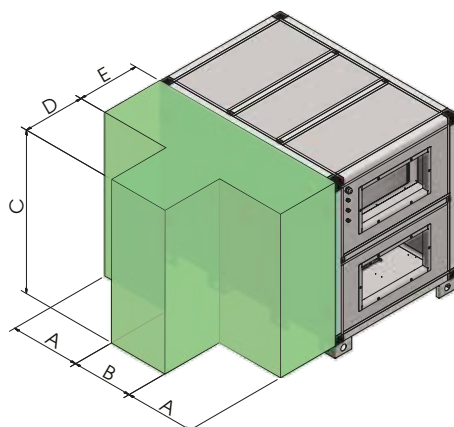
## INSTALLATION

### HORIZONTAL FLOOR INSTALLATION

Minimum maintenance spaces (mm)



| UNIT      | Dimensions (mm) |     |      |     |      |      |
|-----------|-----------------|-----|------|-----|------|------|
|           | A               | B   | C    | D   | E    | F    |
| UVR-TOP 1 | 475             | 500 | 1120 | 350 | 450  | 800  |
| UVR-TOP 2 | 555             | 500 | 1200 | 400 | 600  | 600  |
| UVR-TOP 3 | 675             | 500 | 1294 | 400 | 700  | 700  |
| UVR-TOP 4 | 750             | 500 | 1405 | 600 | 800  | 800  |
| UVR-TOP 5 | 900             | 500 | 1530 | 600 | 900  | 900  |
| UVR-TOP 6 | 1000            | 600 | 1780 | 700 | 1000 | 1000 |

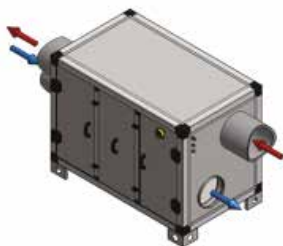


| MODELLO | Dimensioni (mm) |     |      |     |      |
|---------|-----------------|-----|------|-----|------|
|         | A               | B   | C    | D   | E    |
| UVR 1   | 422             | 500 | 923  | 350 | 450  |
| UVR 2   | 495             | 500 | 1035 | 400 | 600  |
| UVR 3   | 555             | 500 | 1294 | 400 | 700  |
| UVR 4   | 600             | 500 | 1405 | 600 | 800  |
| UVR 5   | 760             | 500 | 1530 | 600 | 900  |
| UVR 6   | 900             | 600 | 1780 | 700 | 1000 |



## UVR CONFIGURATIONS with pre and post

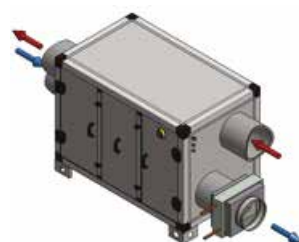
UVR size 1 and 2 (no PRE or POST)



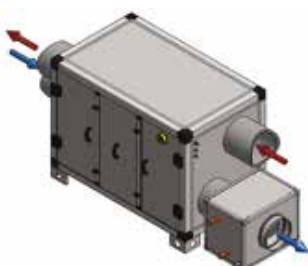
UVR size 1 and 2, PRE or POST electrical on the edge of the unit



UVR size 1 and 2, post H<sub>2</sub>O hot (temperate)



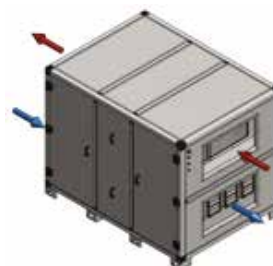
UVR size 1 and 2, post H<sub>2</sub>O cold/hot



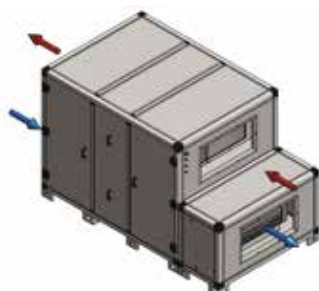
UVR size 3, 4, 5 and 6 (no PRE or POST)



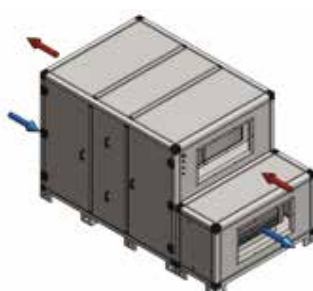
UVR size 3, 4, 5 and 6, PRE or POST electrical, on the edge of the unit



UVR size 3, 4, 5 and 6, post H<sub>2</sub>O hot (temperate)

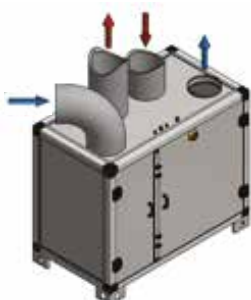


UVR size 3, 4, 5 and 6, post H<sub>2</sub>O cold/hot



## UVR-TOP CONFIGURATIONS with pre and post

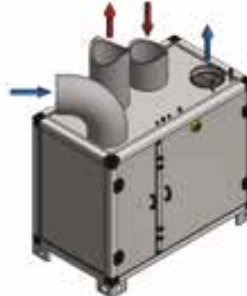
UVR-TOP size 1 and 2 (no PRE or POST)



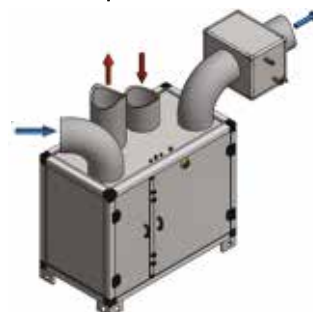
UVR-TOP size 1 and 2, PRE or POST electrical, on the edge of the unit



UVR-TOP size 1 and 2, post H<sub>2</sub>O hot (temperate), on the edge of the unit



UVR-TOP size 1 and 2, post H<sub>2</sub>O cold/hot



UVR-TOP size 3, 4, 5 and 6 (no PRE or POST)



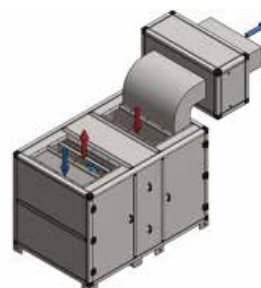
UVR-TOP size 3, 4, 5 and 6, PRE or POST electrical, on the edge of the unit



UVR-TOP size 3, 4, 5 and 6, post H<sub>2</sub>O hot (temperate) on the edge of the unit



UVR-TOP size 3, 4, 5 and 6, post H<sub>2</sub>O cold/hot



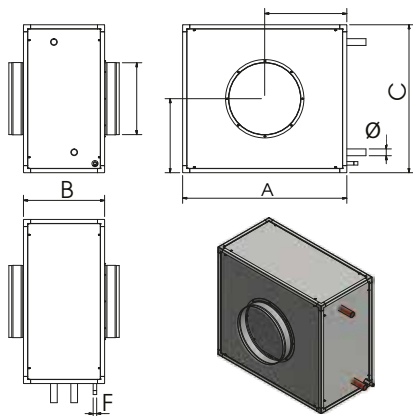


## ADDITIONAL MODULES COILS

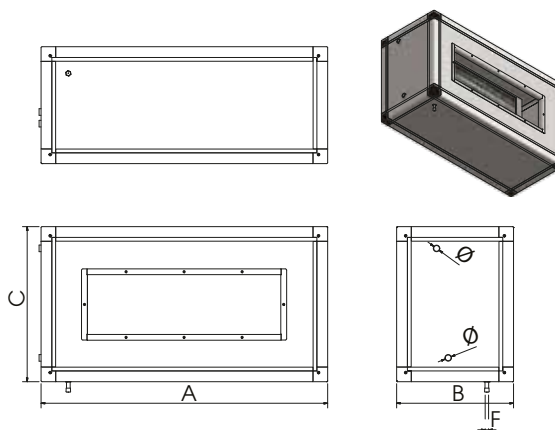
### BA-AF Cold/hot water coil

| MODEL | A    | B   | C   | F    | UVR      |        |         |         | UVR-TOP  |        |         |        |
|-------|------|-----|-----|------|----------|--------|---------|---------|----------|--------|---------|--------|
|       |      |     |     |      | Hole     | Weight | Note    | Attacks | Hole     | Weight | Note    | Ø      |
| 1     | 560  | 400 | 430 | 3/8" | Ø 250    | 24     | On duct | 1"      | Ø 250    | 24     | On duct | 1"     |
| 2     | 690  | 400 | 550 | 3/8" | Ø 315    | 40     | On duct | 1"      | Ø 315    | 40     | On duct | 1"     |
| 3     | 1106 | 524 | 683 | 1/2" | 600x308  | 39     | Module  | 3/4"    | 700x208  | 46     | On duct | 3/4"   |
| 4     | 1356 | 634 | 738 | 1/2" | 700x408  | 56     | Module  | 1"      | 1000x208 | 67     | On duct | 1"     |
| 5     | 1481 | 604 | 801 | 1/2" | 800x408  | 84     | Module  | 1"      | 1000x308 | 101    | On duct | 1"     |
| 6     | 1731 | 714 | 926 | 1/2" | 1000x508 | 109    | Module  | 1 1/2"  | 1200x308 | 133    | On duct | 1 1/2" |

#### BA-AF for UVR and UVR-TOP 1-2



#### BA-AF for UVR and UVR-TOP 3-4-5-6

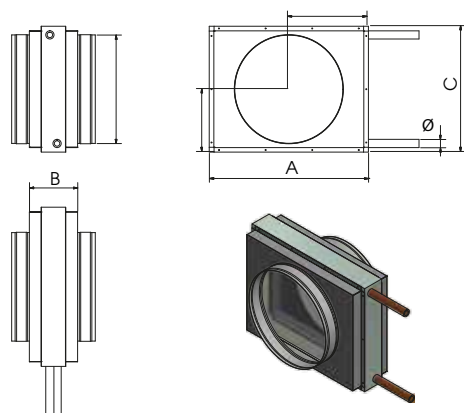


### BA-AC Hot water coil

| MODEL | A    | B   | C   | UVR      |        |         |      |
|-------|------|-----|-----|----------|--------|---------|------|
|       |      |     |     | Hole     | Weight | Note    | Ø    |
| 1     | 430  | 200 | 260 | Ø 250    | 11     | On duct | 1/2" |
| 2     | 490  | 200 | 320 | Ø 315    | 15     | On duct | 3/4" |
| 3     | 1106 | 524 | 683 | 600x308  | 31     | Module  | 1/2" |
| 4     | 1356 | 574 | 738 | 700x408  | 45     | Module  | 3/4" |
| 5     | 1481 | 604 | 801 | 800x408  | 67     | Module  | 3/4" |
| 6     | 1731 | 714 | 926 | 1000x508 | 89     | Module  | 3/4" |

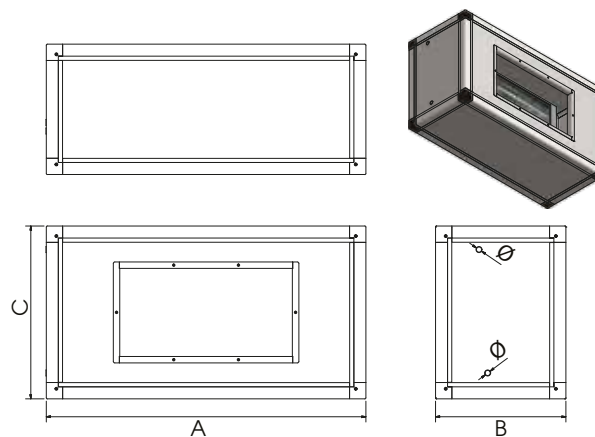
In the UVR-TOP units the BA-AC are inside the machines  
In the UVR units the BA-AC units are outside to the machine

#### BA-AC for UVR 1-2



#### BA-AC for UVR 3-4-5-6

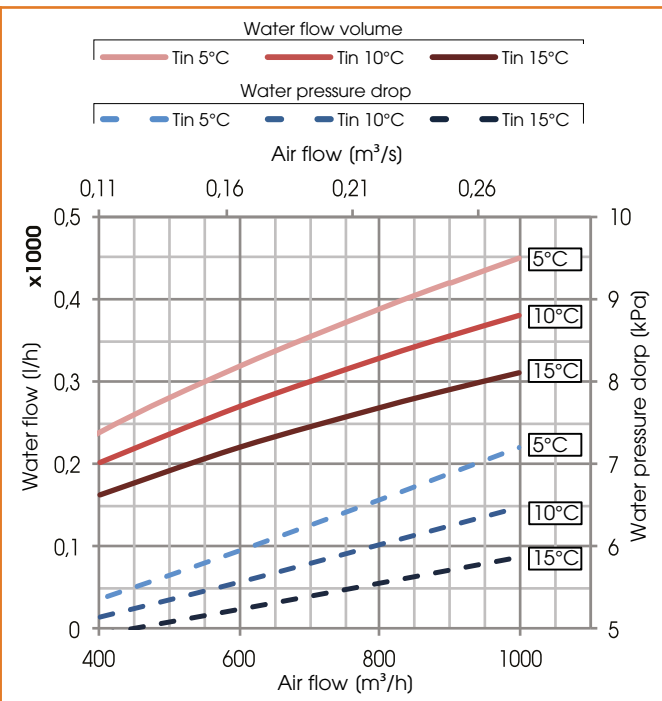
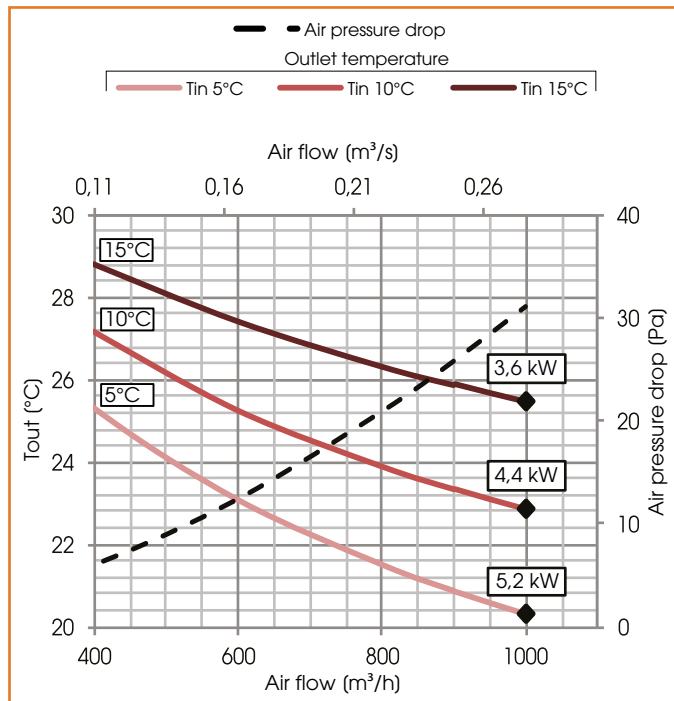
\* In the BA-AC modules is not present the condensate drain





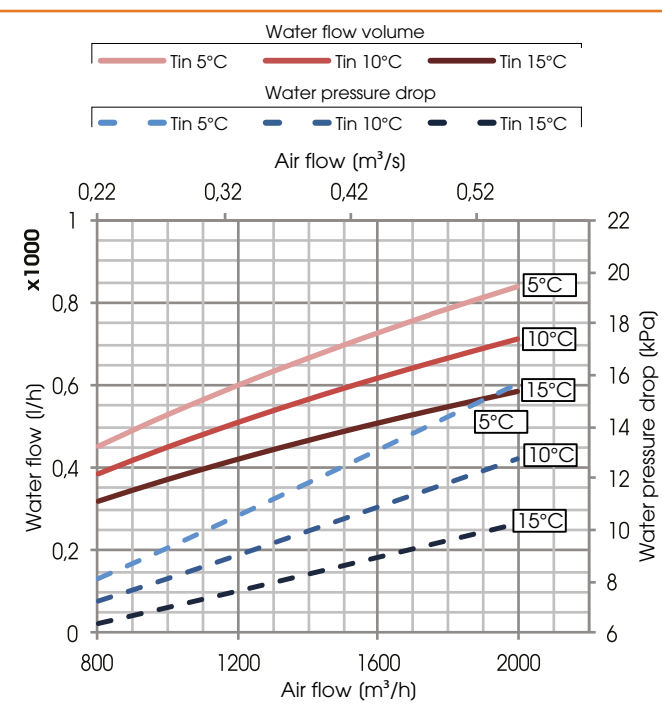
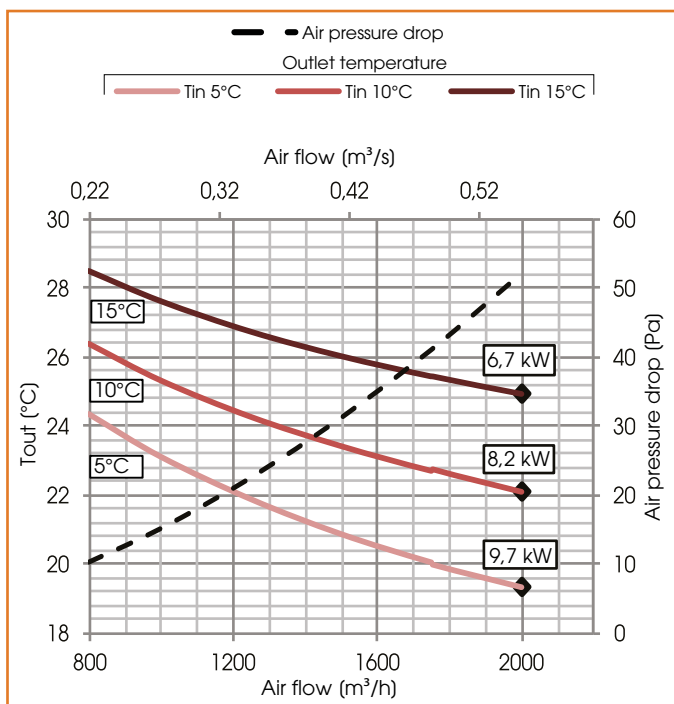
### COIL UVR-TOP 1 Heating water coil (45°C/35°C)

| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
|                |         |                |                | TUBES     | FINS | FRAME |
| 1/2"           | 2       | 2.5            | 1              | Cu        | Al   | Fe Zn |



### COILS UVR-TOP 2 Heating water coil (45°C/35°C)

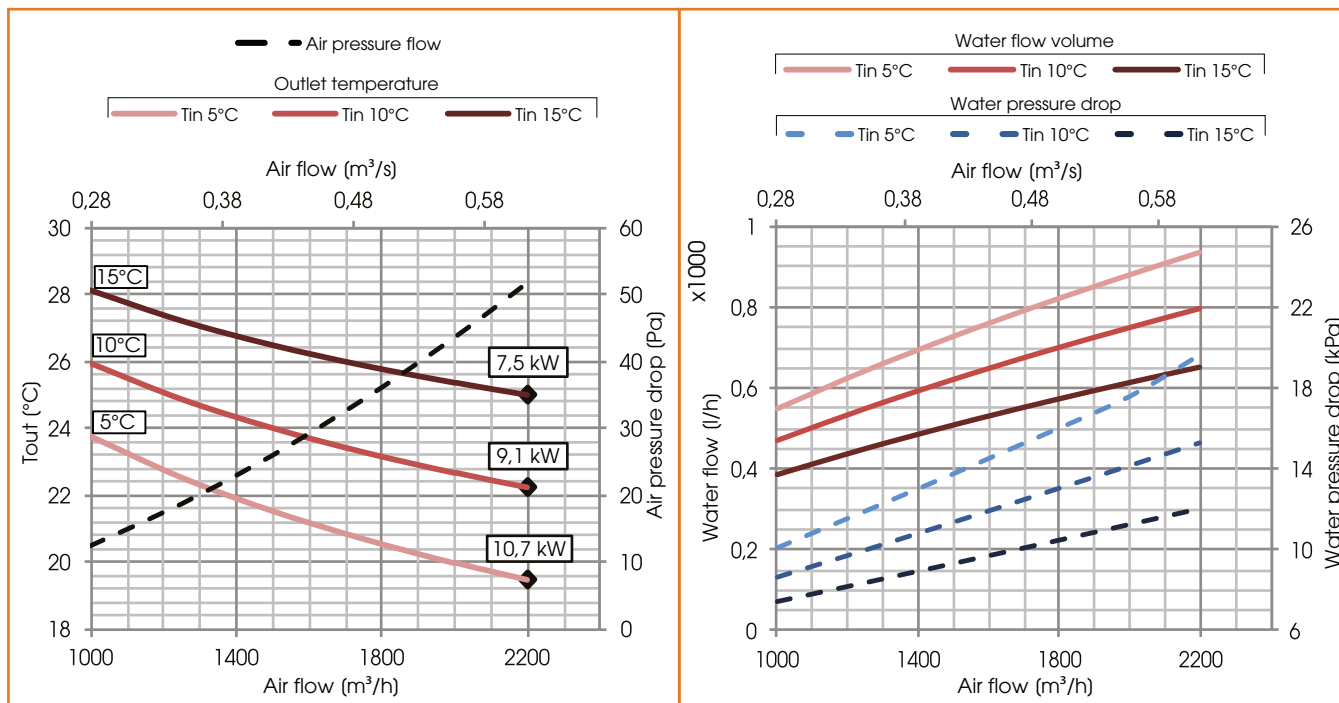
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
|                |         |                |                | TUBES     | FINS | FRAME |
| 1/2"           | 2       | 2.5            | 1              | Cu        | Al   | Fe Zn |





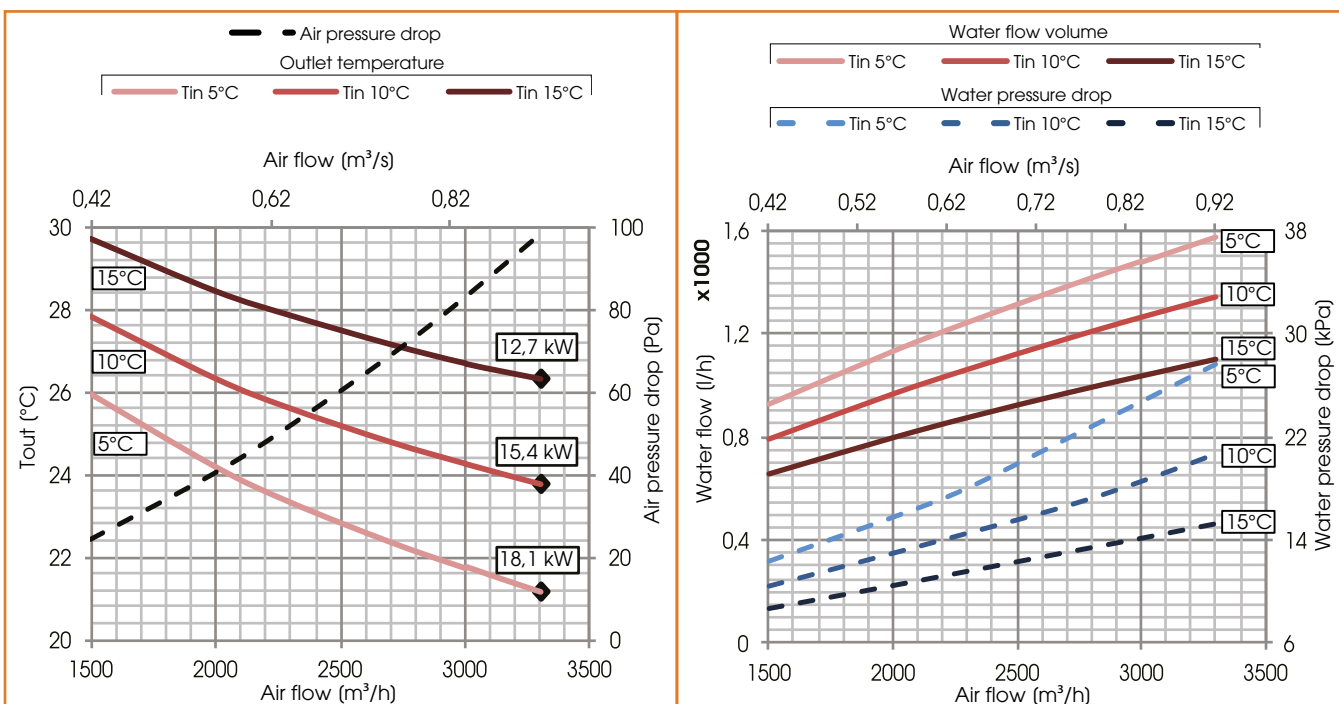
### COILS UVR-TOP 3 Heating water coil (45°C/35°C)

| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
|                |         |                |                | TUBES     | FINS | FRAME |
| 1/2"           | 2       | 2,5            | 1              | Cu        | Al   | Fe Zn |



### COILS UVR-TOP 4 Heating water coil (45°C/35°C)

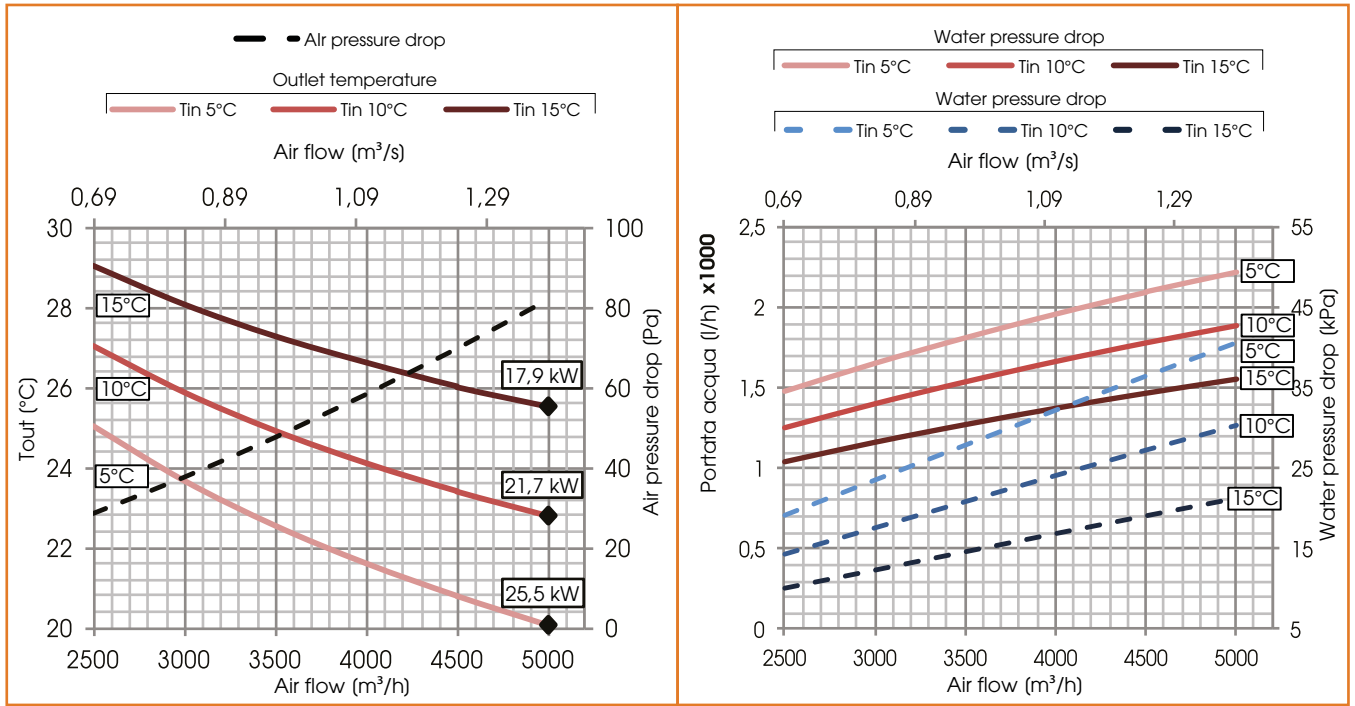
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
|                |         |                |                | TUBES     | FINS | FRAME |
| 1/2"           | 3       | 3,0            | 2              | Cu        | Al   | Fe Zn |





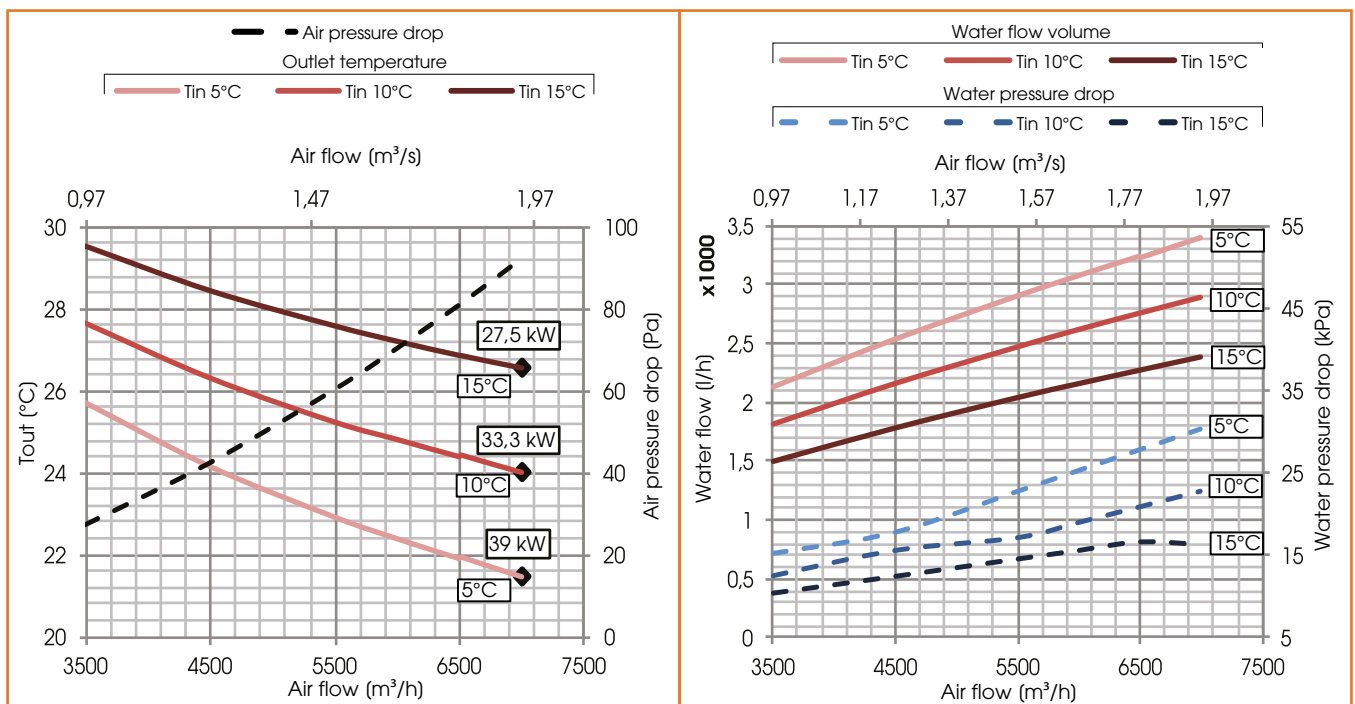
### COILS UVR-TOP 5 Heating water coil (45°C/35°C)

|                |         |                |                             | MATERIALS |      |       |
|----------------|---------|----------------|-----------------------------|-----------|------|-------|
| Ø WATER (”gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm <sup>3</sup> ) | TUBES     | FINS | FRAME |
| 3/4”           | 4       | 3,0            | 4                           | Cu        | Al   | Fe Zn |



### COILS UVR-TOP 6 Heating water coil (45°C/35°C)

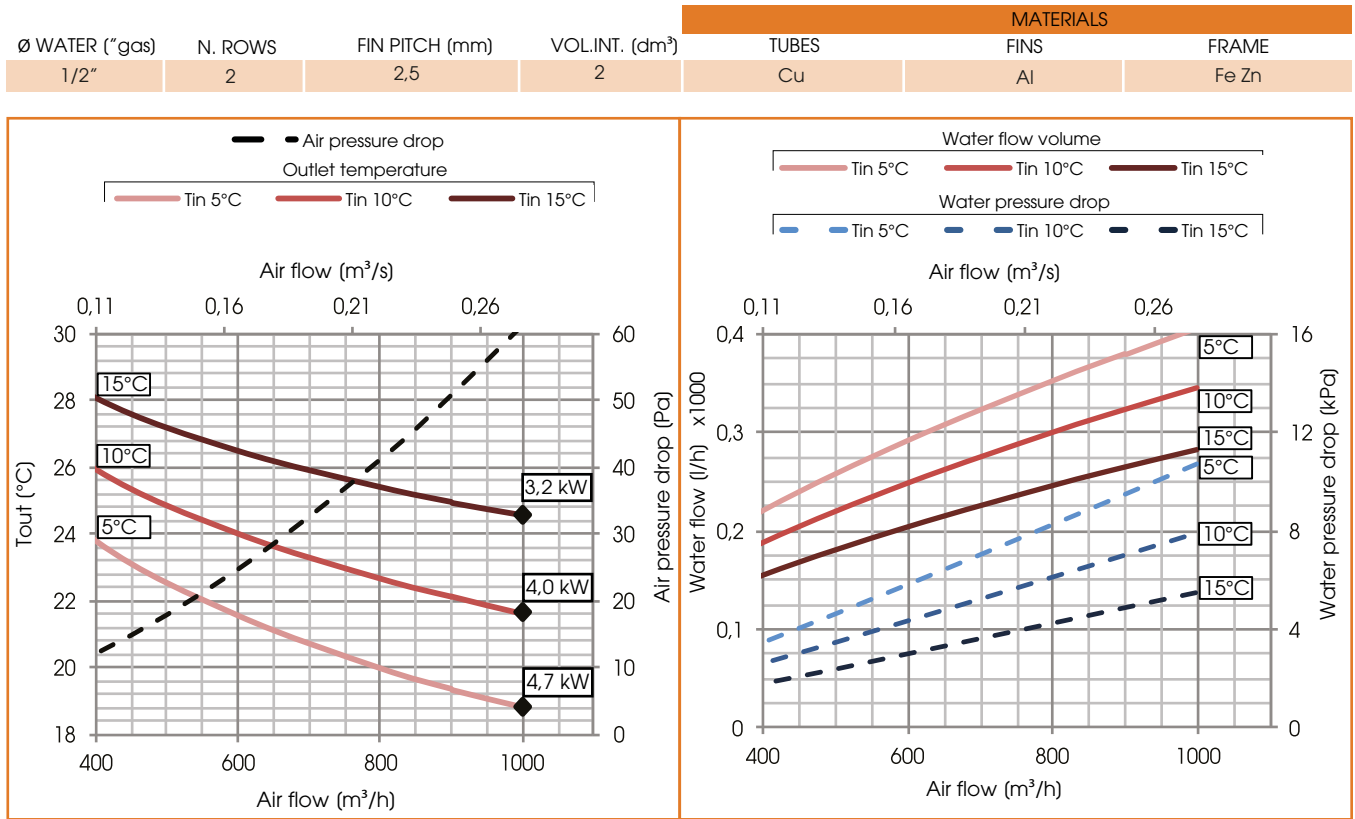
|                |         |                |                             | MATERIALS |      |       |
|----------------|---------|----------------|-----------------------------|-----------|------|-------|
| Ø WATER (”gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm <sup>3</sup> ) | TUBES     | FINS | FRAME |
| 1”             | 3       | 3,0            | 5                           | Cu        | Al   | Fe Zn |





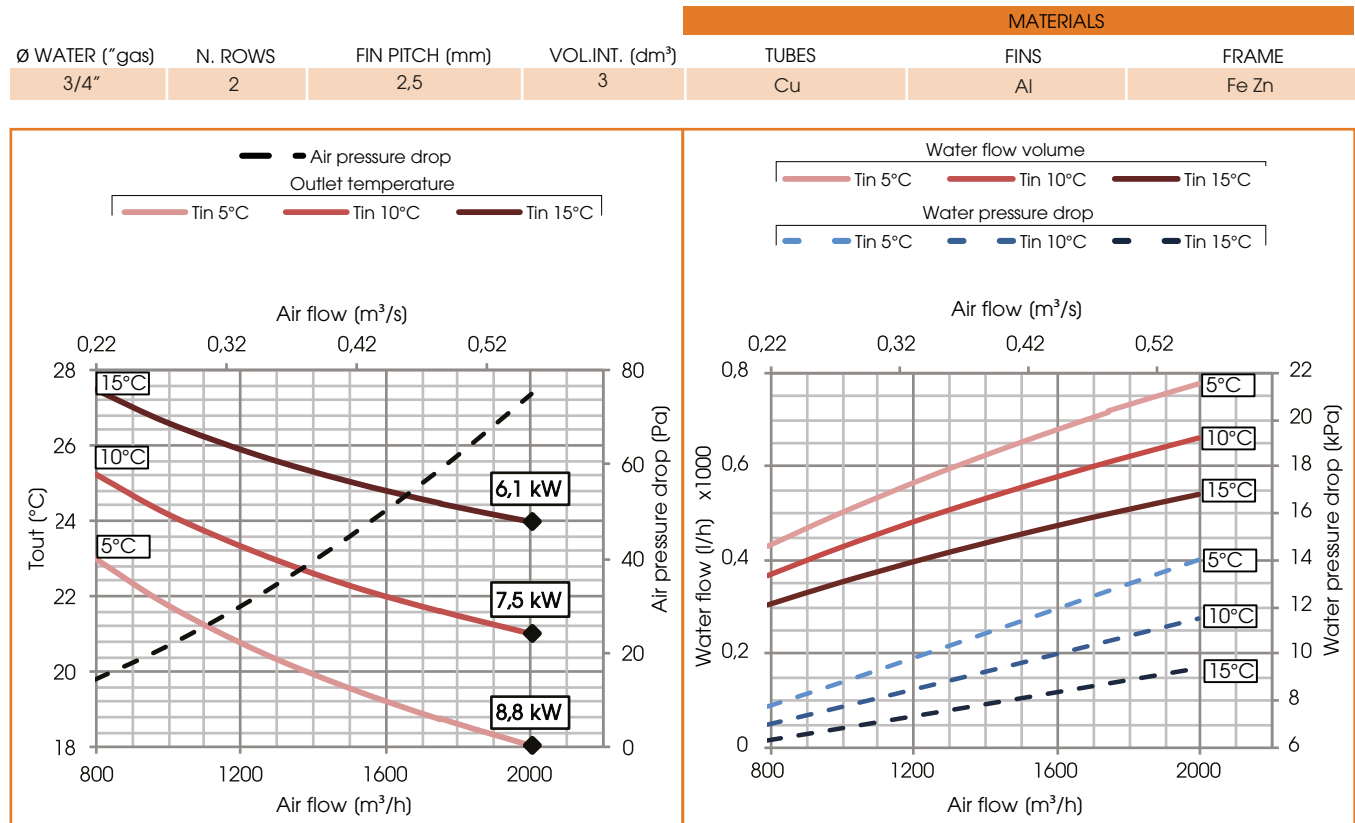
## COILS UVR 1

Heating water coil (45°C/35°C)



## COILS UVR 2

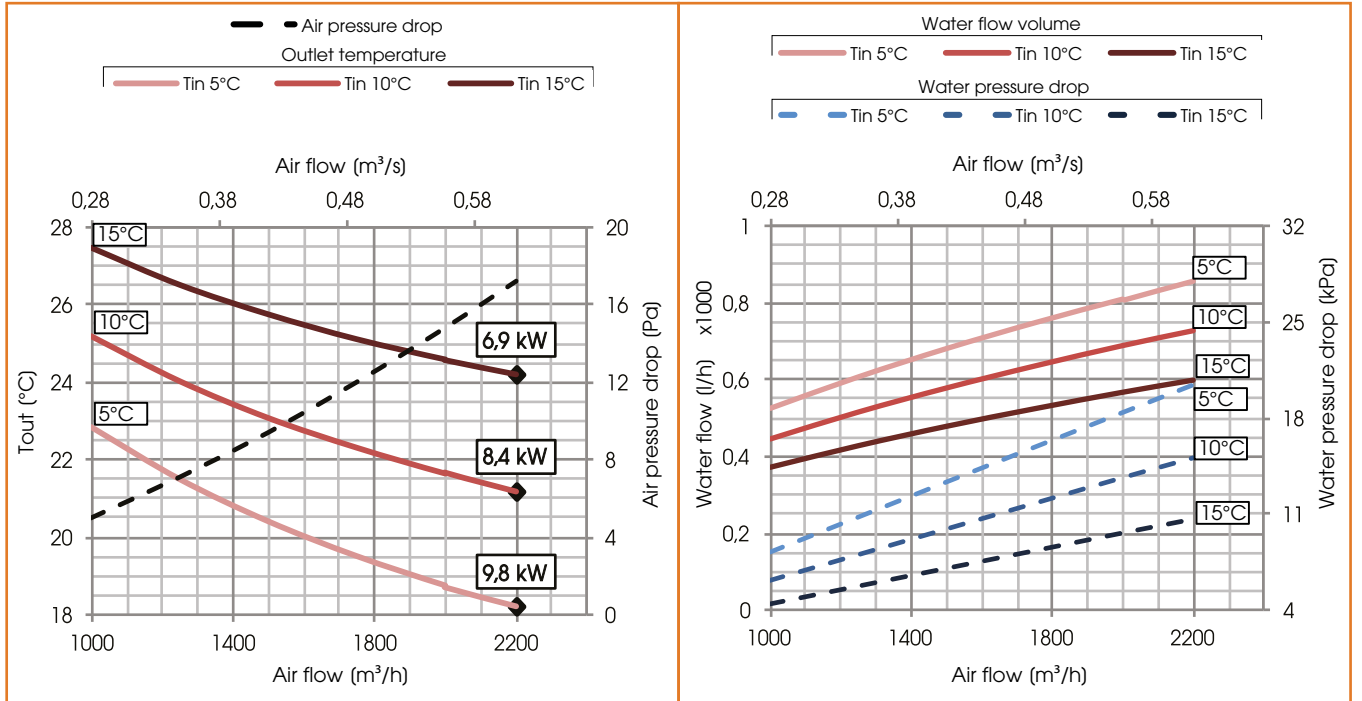
Heating water coil (45°C/35°C)





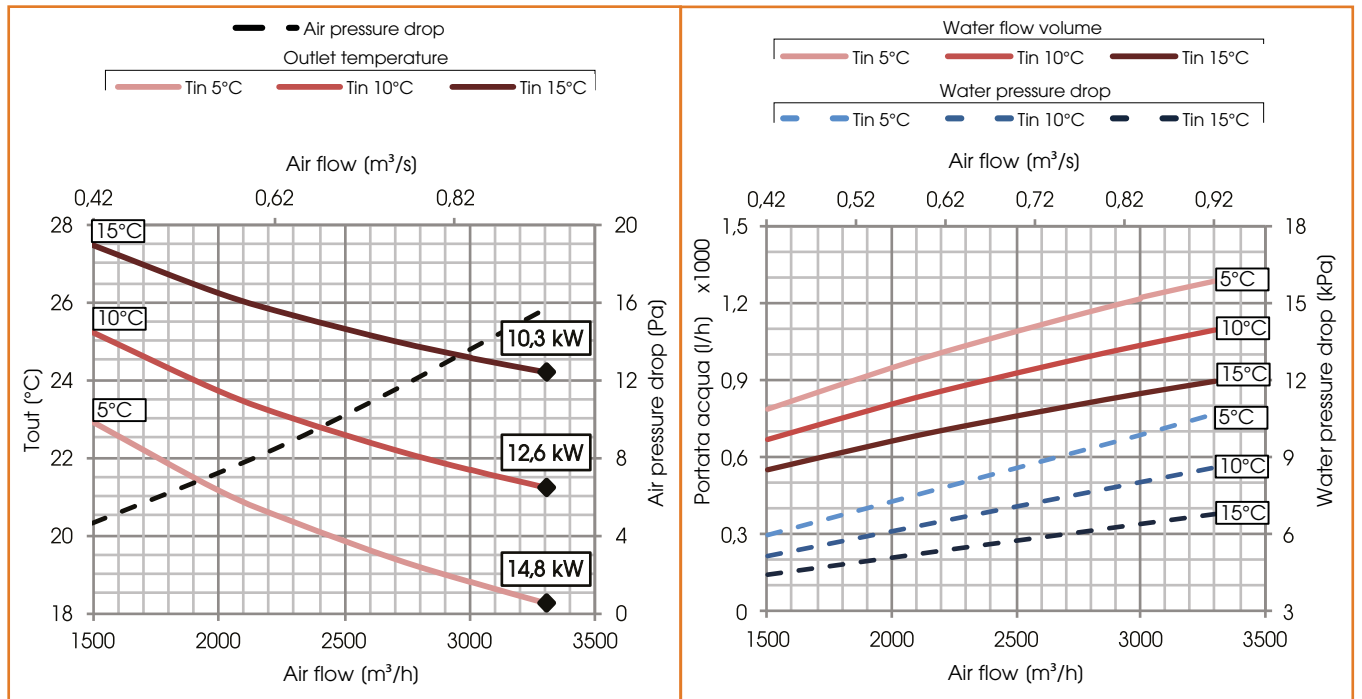
### COILS UVR 3 Heating water coil (45°C/35°C)

| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm <sup>3</sup> ) | MATERIALS |      |       |
|----------------|---------|----------------|-----------------------------|-----------|------|-------|
|                |         |                |                             | TUBES     | FINS | FRAME |
| 1/2"           | 2       | 2.5            | 2                           | Cu        | Al   | Fe Zn |



### COILS UVR 4 Heating water coil (45°C/35°C)

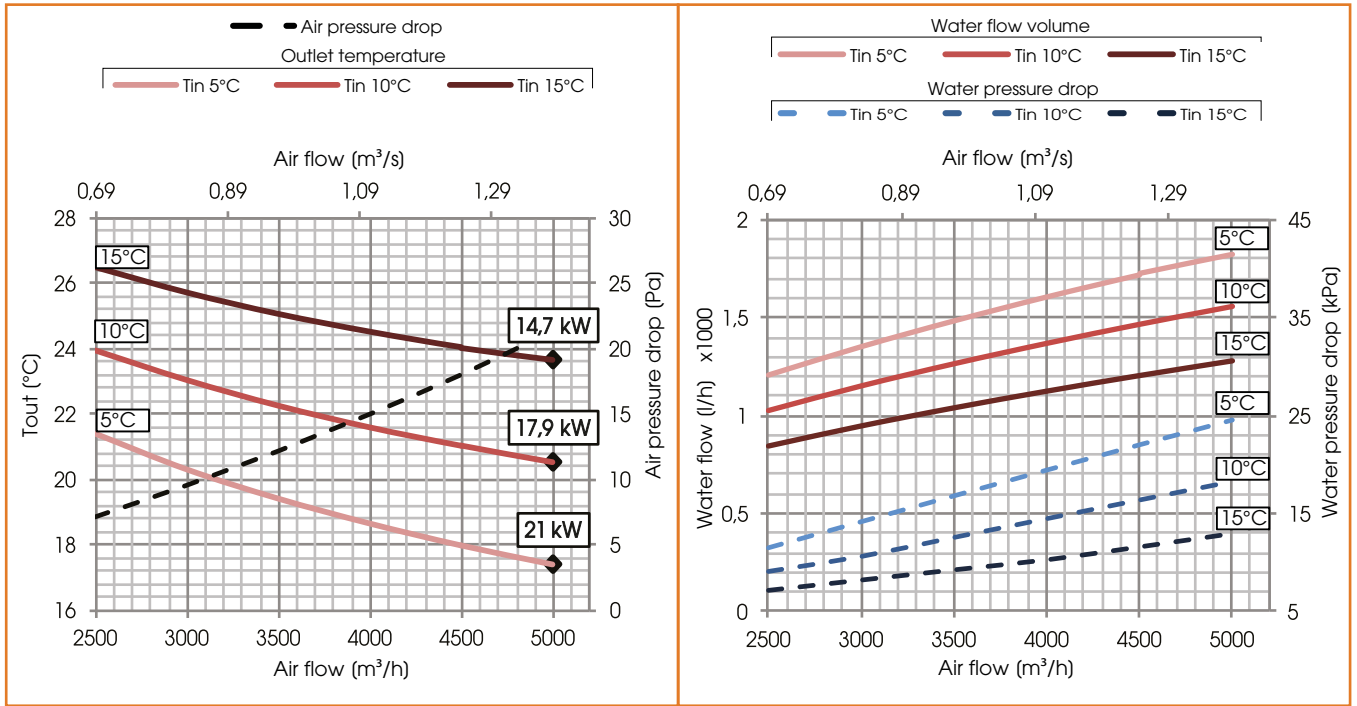
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm <sup>3</sup> ) | MATERIALS |      |       |
|----------------|---------|----------------|-----------------------------|-----------|------|-------|
|                |         |                |                             | TUBES     | FINS | FRAME |
| 3/4"           | 2       | 2.5            | 3                           | Cu        | Al   | Fe Zn |





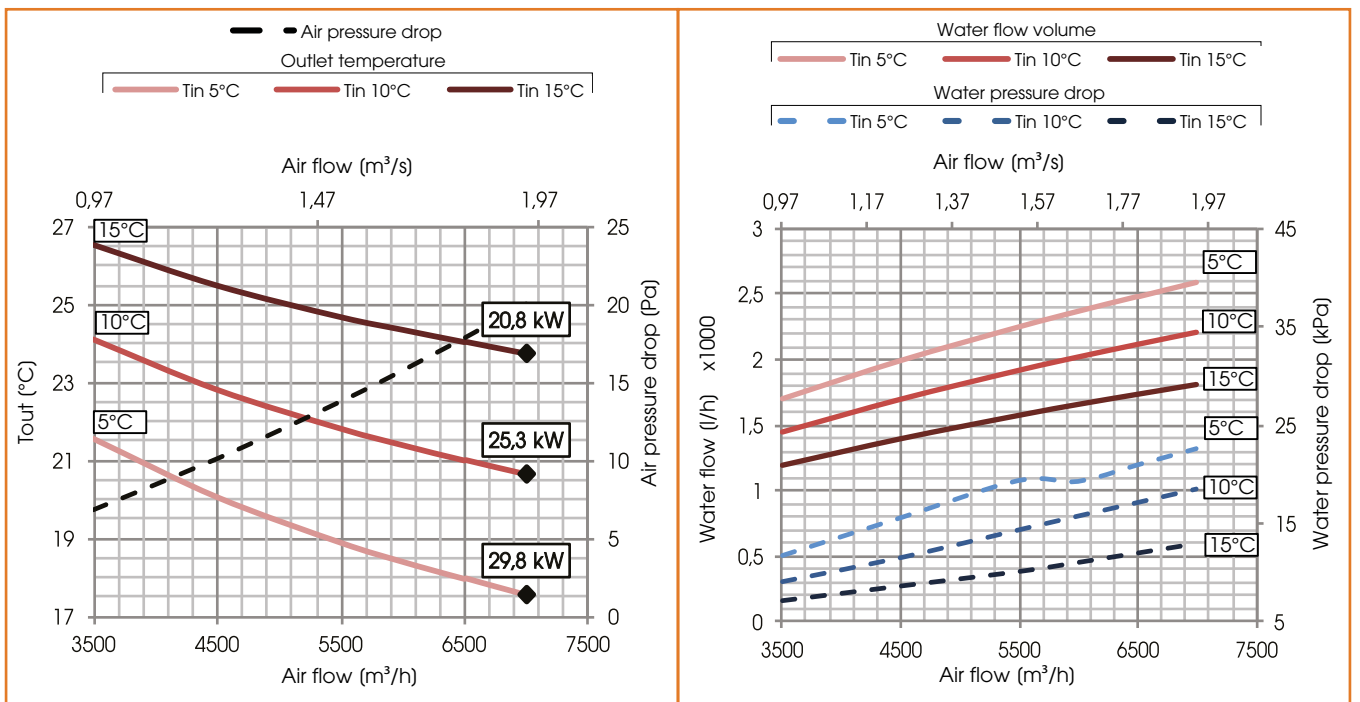
# BATTERIE UVR 5 Heating water coil (45°C/35°C)

|                |         |                |                | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | TUBES     | FINS | FRAME |
| 3/4"           | 2       | 2,5            | 4              | Cu        | Al   | Fe Zn |



# COILS UVR 6 Heating water coil (45°C/35°C)

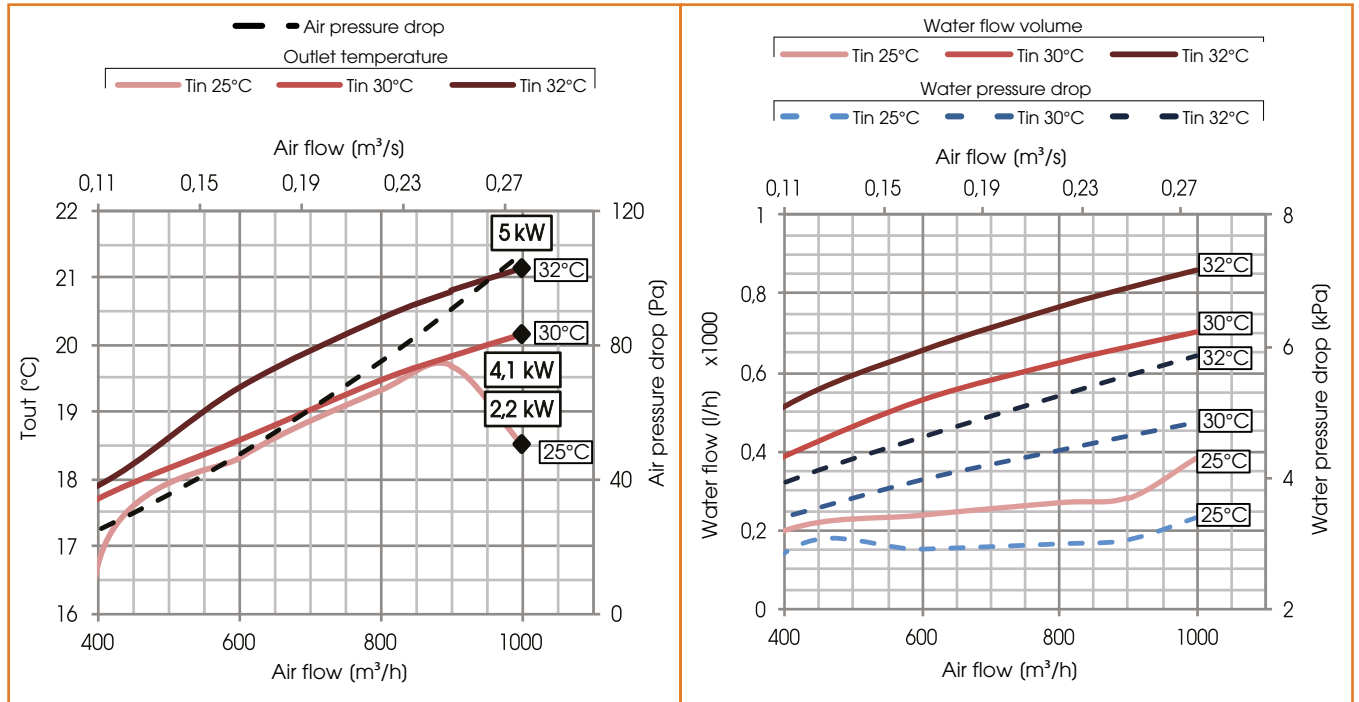
|                |         |                |                | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | TUBES     | FINS | FRAME |
| 3/4"           | 2       | 3,5            | 6              | Cu        | Al   | Fe Zn |





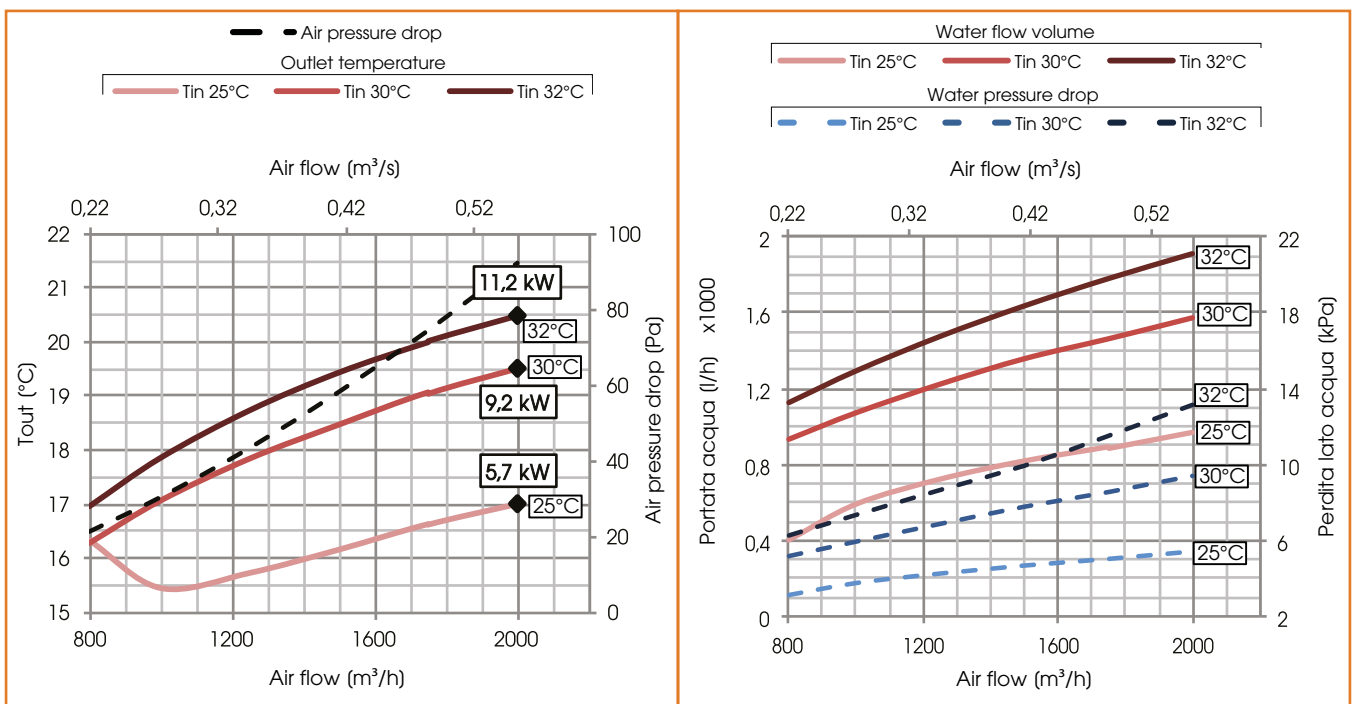
COILS UVR & UVR-TOP 1  
Cooling water coil (7°C/12°C)

| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
|                |         |                |                | TUBES     | FINS | FRAME |
| 1"             | 4       | 2,5            | 3              | Cu        | Al   | Fe Zn |



COILS UVR & UVR-TOP 2  
Cooling water coil (7°C/12°C)

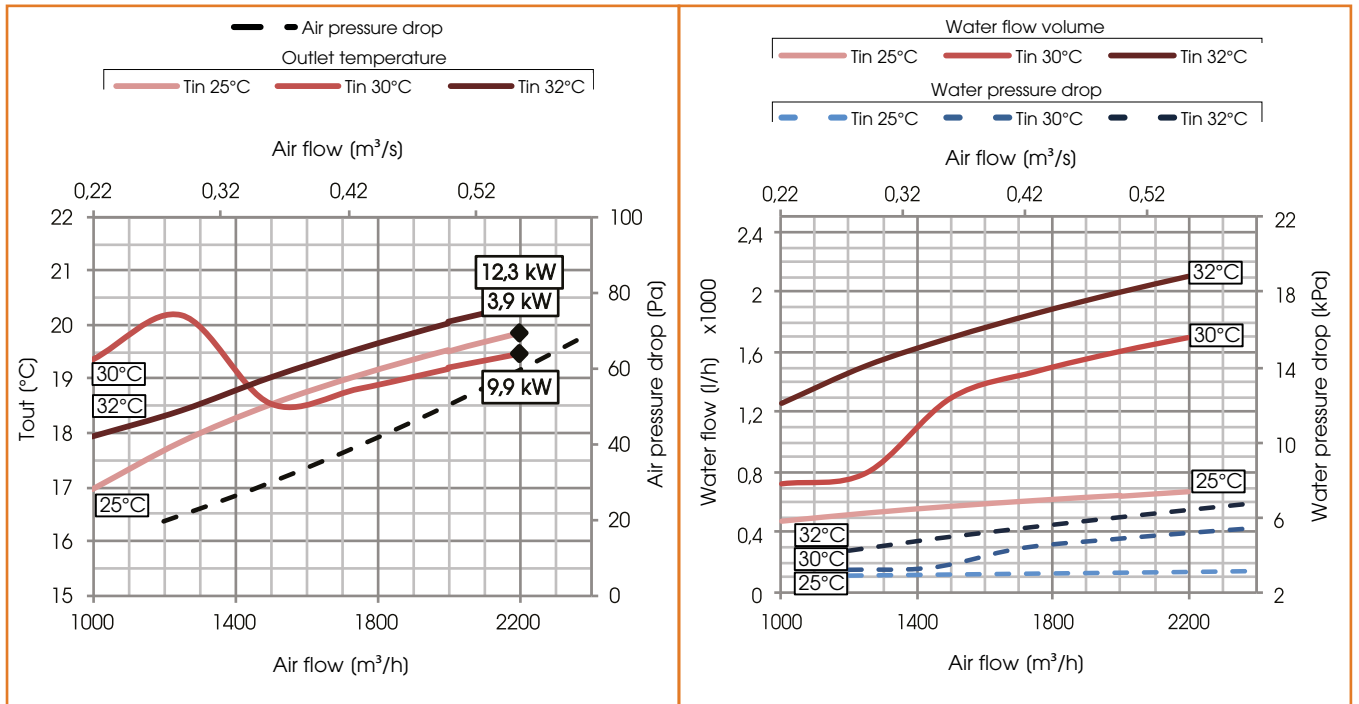
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
|                |         |                |                | TUBES     | FINS | FRAME |
| 1"             | 4       | 2,5            | 5              | Cu        | Al   | Fe Zn |





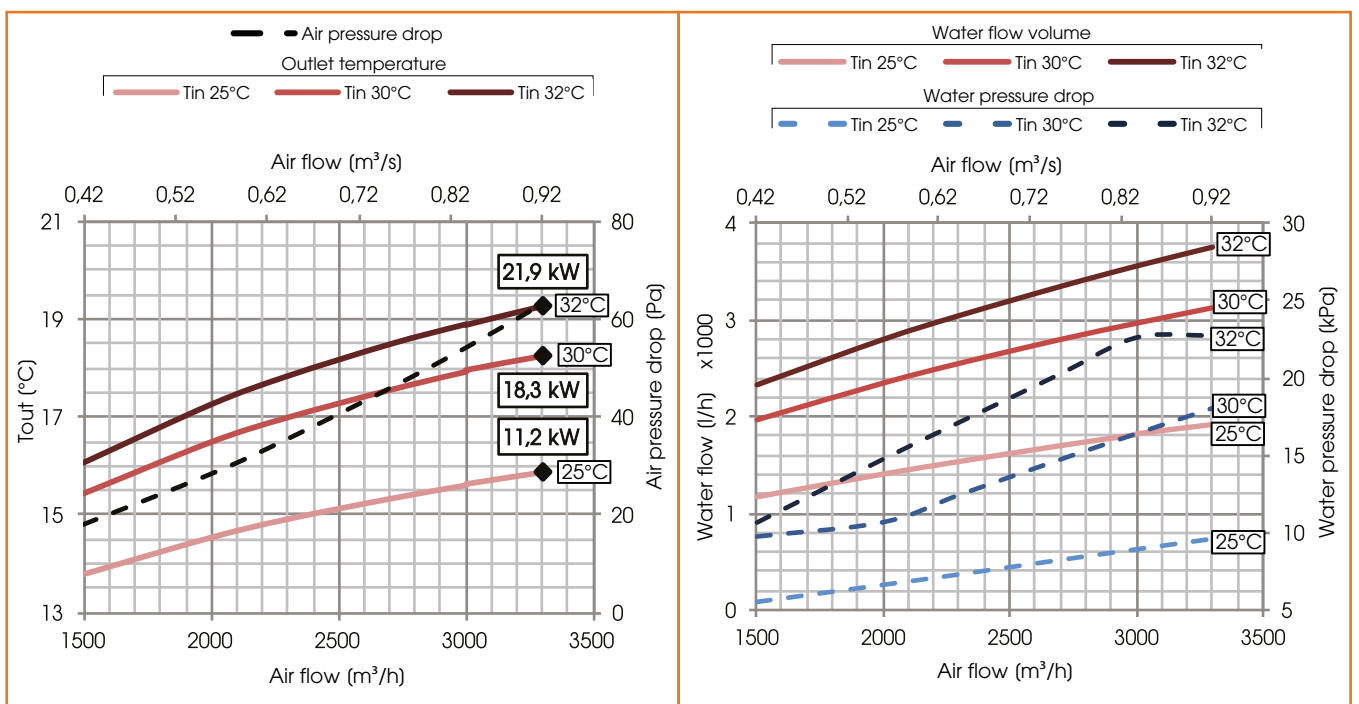
### COILS UVR & UVR-TOP 3 Cooling water coil (7°C/12°C)

| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
|                |         |                |                | TUBES     | FINS | FRAME |
| 3/4"           | 4       | 2,5            | 6              | Cu        | Al   | Fe Zn |



### COILS UVR & UVR-TOP 4 Cooling water coil (7°C/12°C)

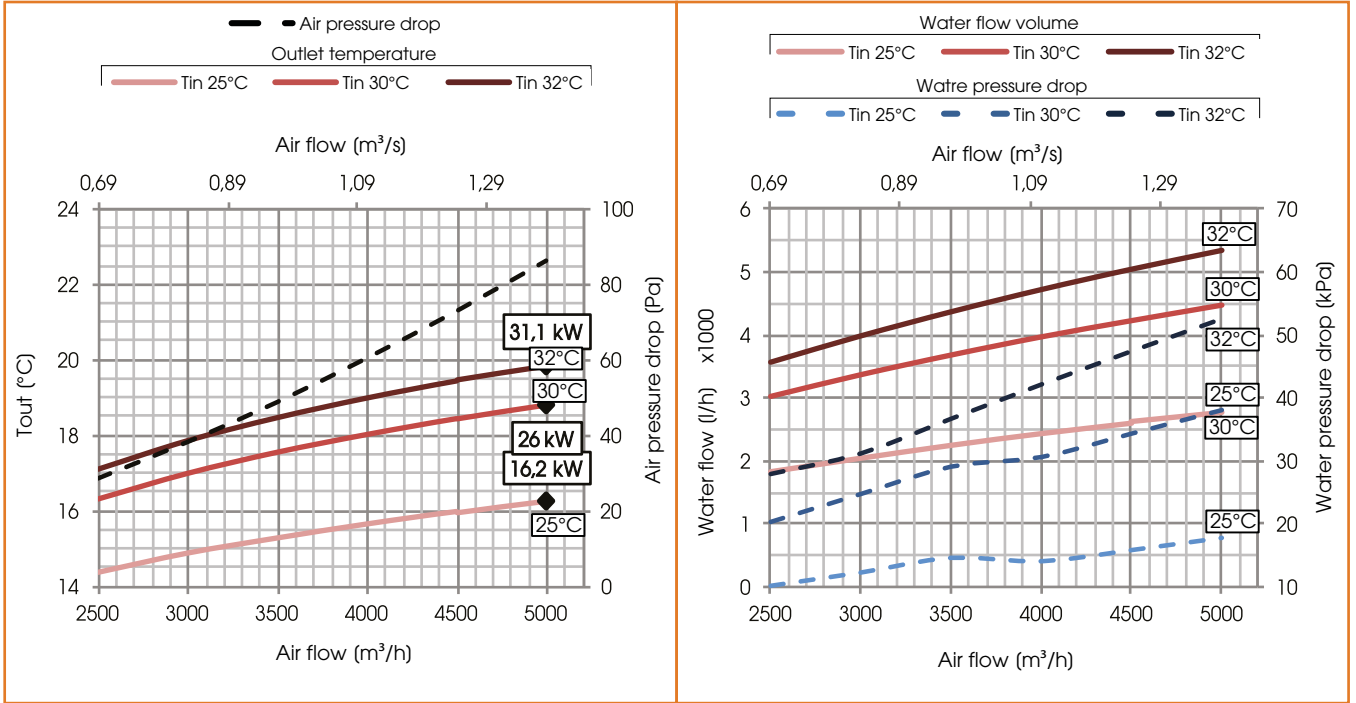
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm³) | MATERIALS |      |       |
|----------------|---------|----------------|----------------|-----------|------|-------|
|                |         |                |                | TUBES     | FINS | FRAME |
| 1"             | 3       | 2,5            | 7              | Cu        | Al   | Fe Zn |





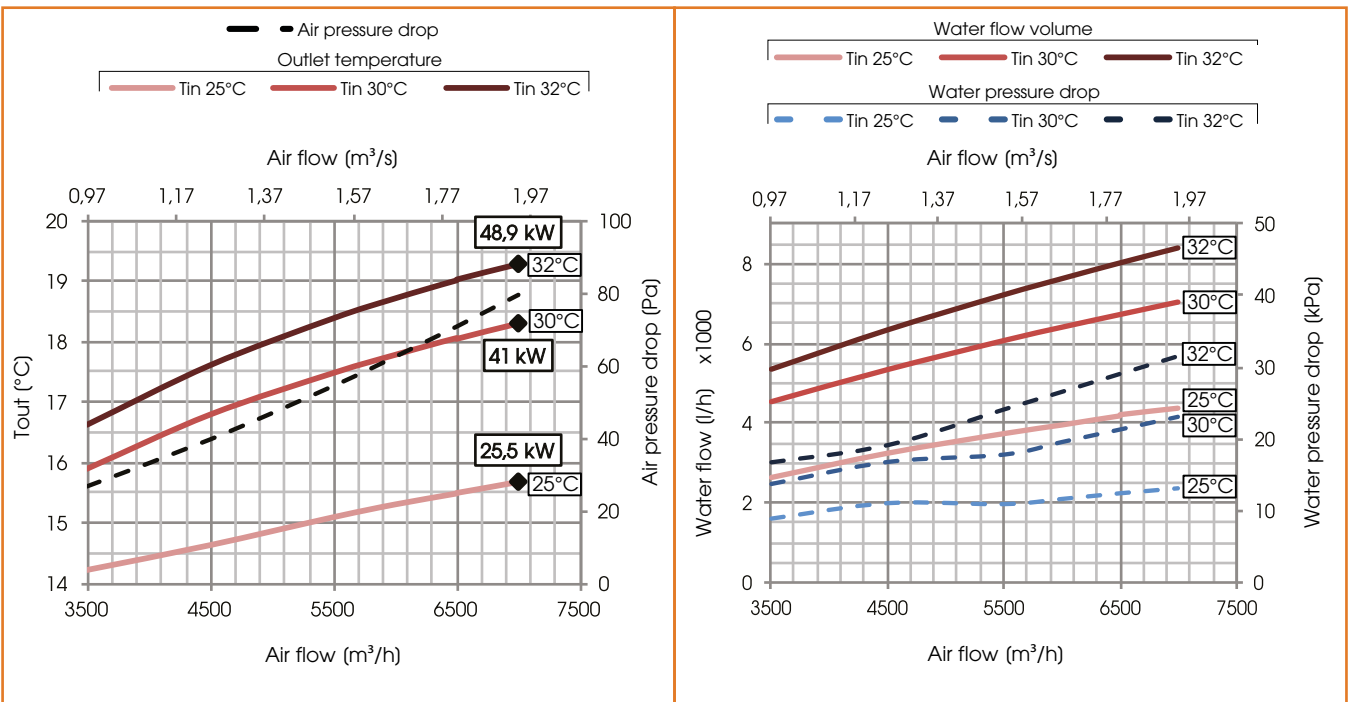
### COILS UVR & UVR-TOP 5 Cooling water coil (7°C/12°C)

| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm <sup>3</sup> ) | MATERIALS |      |       |
|----------------|---------|----------------|-----------------------------|-----------|------|-------|
|                |         |                |                             | TUBES     | FINS | FRAME |
| 1"             | 3       | 2,5            | 8                           | Cu        | Al   | Fe Zn |



### COILS UVR & UVR-TOP 6 Cooling water coil (7°C/12°C)

| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | VOL.INT. (dm <sup>3</sup> ) | MATERIALS |      |       |
|----------------|---------|----------------|-----------------------------|-----------|------|-------|
|                |         |                |                             | TUBES     | FINS | FRAME |
| 1 1/2"         | 4       | 3,0            | 12                          | Cu        | Al   | Fe Zn |





## Electrical heater

| POST and PRE ELECTRICAL HEATER TECHNICAL DATA |                |            |             |           |
|-----------------------------------------------|----------------|------------|-------------|-----------|
| Unit                                          | Supply         | Power (kW) | Current (A) | N. stages |
| UVR & UVR-TOP 1                               | 230V, 50Hz, 1F | 4          | 17,4        | 1         |
| UVR & UVR-TOP 2                               | 230V, 50Hz, 1F | 6          | 26,1        | 1         |
| UVR & UVR-TOP 3                               | 400V, 50Hz, 3F | 8          | 11,6        | 1         |
| UVR & UVR-TOP 4                               | 400V, 50Hz, 3F | 12         | 17,4        | 1         |
| UVR & UVR-TOP 5                               | 400V, 50Hz, 3F | 16         | 23,2        | 1         |
| UVR & UVR-TOP 6                               | 400V, 50Hz, 3F | 24         | 34,8        | 1         |

N.B. – for other batteries PRE or POST treatment see the Techno-list of ACCESSORIES



UTEK reserves the right to at any time the necessary changes to improve products without prior notice .

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HEAT RECOVERY VENTILATION UNITS for COMMERCIAL and INDUSTRIAL BUILDINGS