



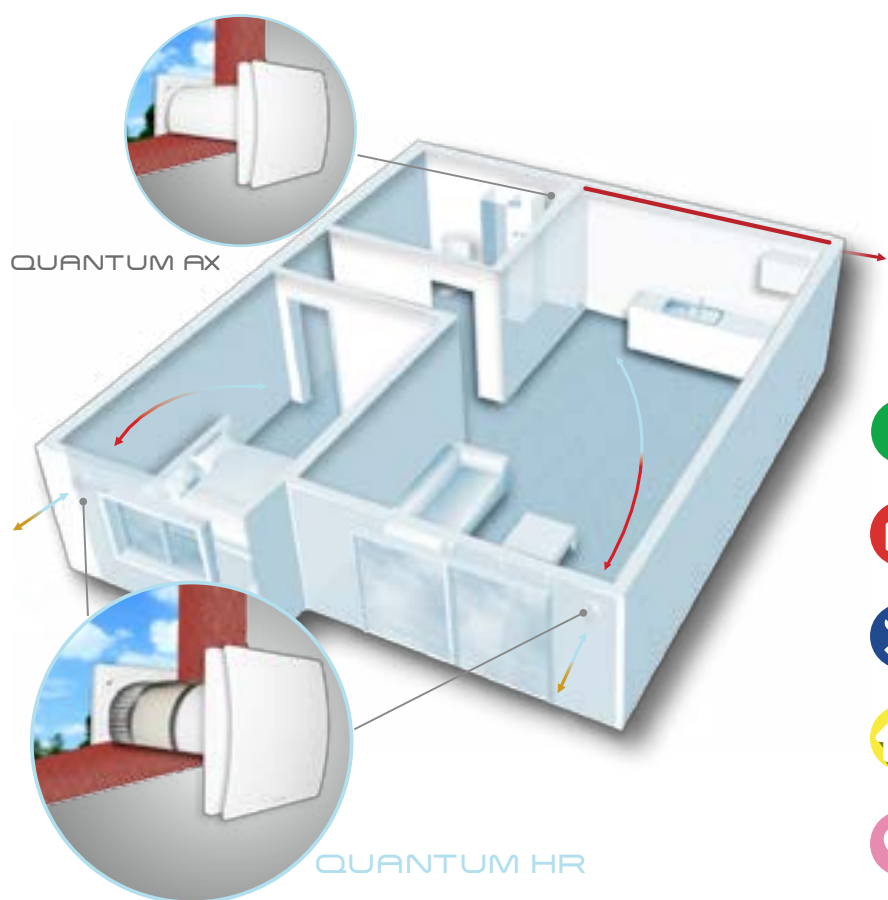
QUANTUM HR

**Decentralised  
heat recovery unit  
with alternate  
single flow**

  
**aerauliqa<sup>®</sup>**

# QUANTUM HR

## Where to install



The Quantum HR ventilation units are the heart of the system illustrated nearby: when installed in the “noble rooms”, like living room or bedroom, they provide a continuous and balanced air exchange, having opposite and synchronised air flows which alternate about every 70 seconds.

To extract the stale air from the “technical rooms”, like bathroom/toilet or kitchen, we recommend the usage of the Quantum AX, a decentralised single flow ventilation unit with a very low energy consumption (from 1W).

**QUANTUM HR** makes the difference :



| On the energy bill :  
the lowest energy consumption at the minimum speed, from 1,2W



| On the heating bill :  
up to 90% heat recovery during winter time



| On the time of installation :  
4 times quicker than a centralised ventilation system

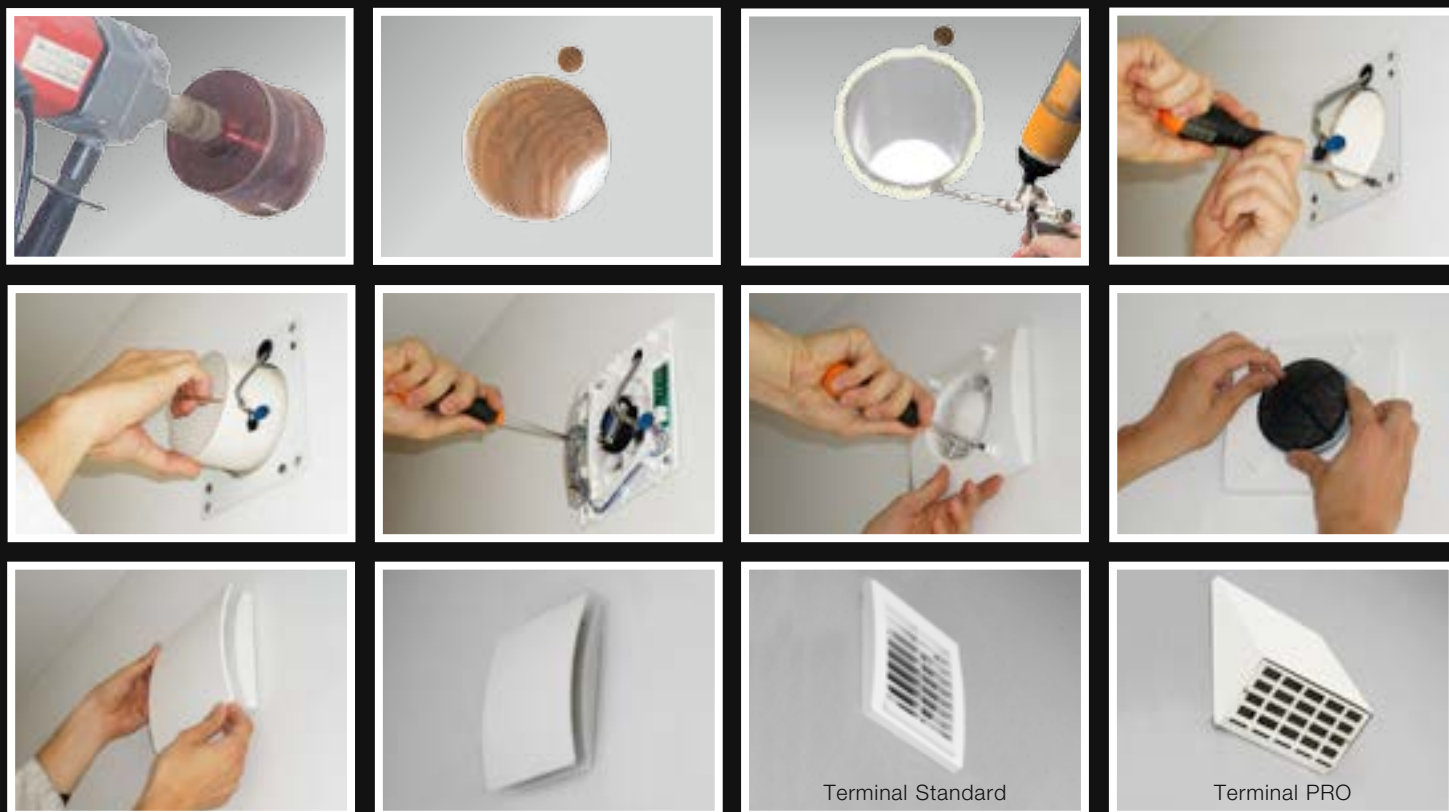


| For the building energy certification :  
reduction of the primary energy value for air exchange during winter time



| For our health :  
definitive solution in case of indoor moisture and condensation as well as to reduce the pollutant levels.

## How to install



The unit does not need any condensation drainage.

# QUANTUM HR

## Details

Telescopic pipe  
adaptable to the wall  
thickness

Wall plate  
for ease of  
installation and  
maintenance

Design front cover  
for modern interior design,  
made of high quality ABS,  
RAL9010

The internal ventilation unit is  
equipped with:

EC brushless motor  
reversible type with high efficiency,  
mounted on long life ball bearings and  
provided with integral thermal protection

Axial impeller  
reversible, with optimised aerodynamic  
profiles



CTRL-S

Multi-speed operation through  
CTRL-S :

- 3 speeds
- Free-cooling option (bypass) with LED indicator
- Automatic speed increase by means of ambient sensors (SEN-HY, SEN-PIR or SEN-CO2)
- Control up to 10 units at the same time
- Automatic reset of the flows synchronisation of two or more units, even after one or more units have been switched off or are turned from free-cooling operation to heat exchange

External cowl PRO  
Acoustically insulated,  
equipped with anti-insect  
net



External grille STD  
equipped with anti-insect  
net

Heat exchanger  
regenerative type with  
ceramic core

Anti-dust filter  
internal, easy to be  
removed and cleaned

## Simplified maintenance

The unit has been designed, engineered and manufactured with a special attention to its installation and maintenance with the purpose of optimising the activities both of the installer and of the tenant.



The removal of the internal ventilation unit is simplified by the wall plate which allows to repeat this operation without damaging either the casing or the wall



The internal anti-duct filter can be easily removed for  
cleaning by the tenant



The cleaning/maintenance of the ceramic heat exchanger  
can be done from inside or outside the wall





# QUANTUM HR

## Available models

| Quantum HR 100  | Quantum HR 150  | Quantum HR 100 PRO  | Quantum HR 150 PRO   | CTRL-S-P  | CTRL-S-I  |
|---|---|---|--|---|---|
|  |  |  |  |  |  |
| Complete unit ready for installation  | Complete unit ready for installation  | Complete unit ready for installation  | Complete unit ready for installation   | Remote control for surface mounting   | Remote control for recessed mounting  |

Pre-installation and completion kits are available upon request.

## Features

| Model                       | Quantum HR 100   | Quantum HR 150   |
|-----------------------------|--|--|
| Airflow m³/h                | 25/15/10   | 60/40/20   |
| Power W                     | 2,6/1,7/1,2  | 3,8/2,3/1,4  |
| Acoustic pressure dB(A) @3m | 29/15/10   | 26/18/10   |
| Ambient temperature °C      | -20° +50°  | -20° +50°  |
| Thermal efficiency          | up to 90%  | up to 90%  |
| Marking                     | CE  | CE  |

- rated 220-240 V ~ 50Hz
- air performance measured according to ISO 5801 at 230V 50Hz, air density 1,2 Kg/m³
- data measured in the TÜV Rheinland recognised laboratory in Aerauliqa
- pressure sound level at 3m in free field
- certified TÜV Rheinland

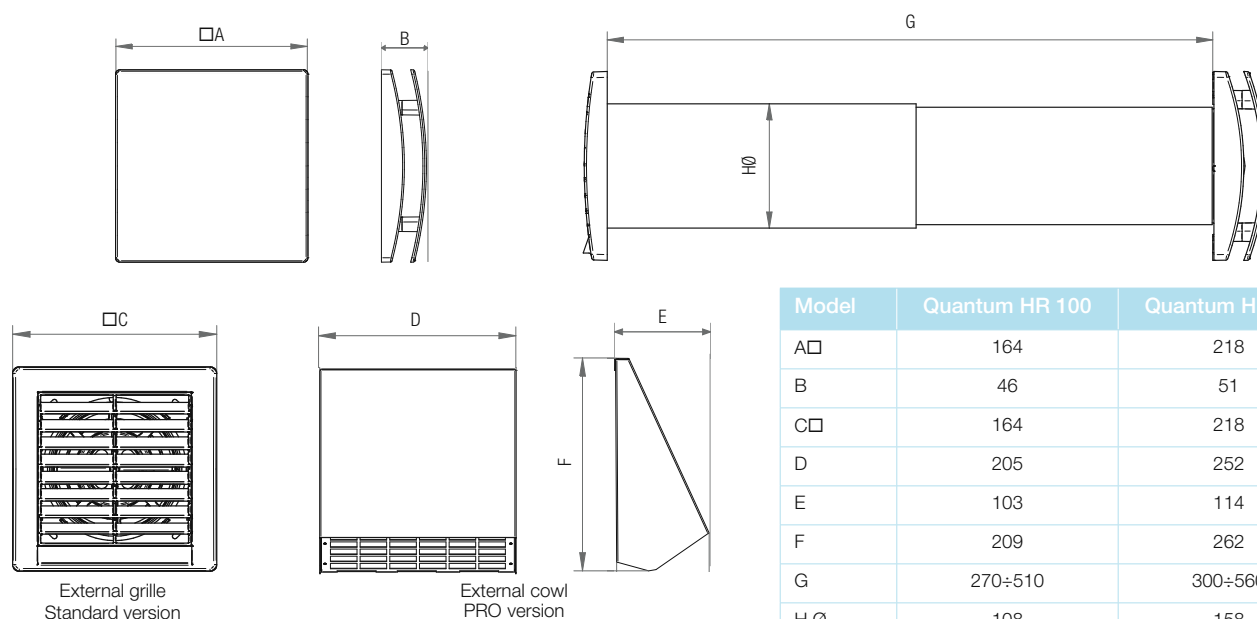


Safety  
Electromagnetic  
Compatibility  
Regular Production  
Surveillance



www.tuv.com  
ID 0000040225

## Dimensions



| Model | Quantum HR 100 | Quantum HR 150 |
|-------|----------------|----------------|
| A □   | 164            | 218            |
| B     | 46             | 51             |
| C □   | 164            | 218            |
| D     | 205            | 252            |
| E     | 103            | 114            |
| F     | 209            | 262            |
| G     | 270÷510        | 300÷560        |
| H Ø   | 108            | 158            |

Dimensions in mm



**STYLED, ENGINEERED AND MANUFACTURED IN ITALY**

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