# REC smart

## Decentralized Heat Recovery Unit
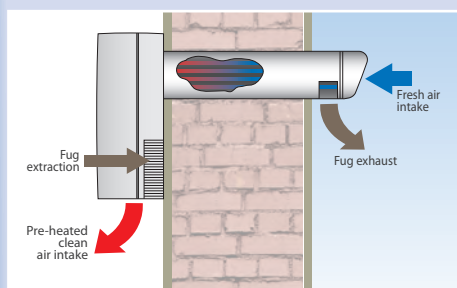
**Single rooms up to 40 m²**

**ErP** **Comply with ErP Directive 2009/125/CE and EU Regulation 1253/2014.**
**Residential Ventilation Unit.**

● **Thermal efficiency** up to **75%**

● Easy to install: no ducting system or heavy masonry required.
**A hole of ø 100 mm** is sufficient.

● Ideal for refurbishment and energy requalification.

● Drastic solution to humidity and condensate problems.

● ◉ EC motors.



Fresh air intake
Fug extraction
Fug exhaust
Pre-heated clean air intake

• Tubular heat exchanger with separate flows for a perfect hygiene.
• Balanced double flow, 24/7 running.

### ACCESSORIES



Built-in installation

### RLS
**Remote Speed control (min-max) and on/off switch.**

**Indispensable with standard versions**
• New design with cover
• Suitable for surface or built-in installation
• Ease of connection by the means of removable terminals
• Protection IP42
• Weight 0,40 Kg
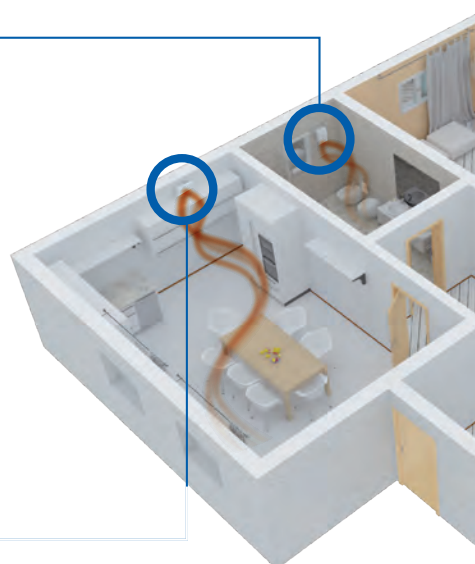• Supply voltage 230V – 50/60 Hz
• Dimensions 110 x 80 x 42

## DESCRIPTION

• 3 models with duct ø 100 mm and 3 standard lengths for wall thickness up to 600 mm.
• Suitable for any kind of room. Ideal for wet rooms like kitchens and bathrooms.
• Extremely compact and versatile: can be installed in horizontal or vertical position.
• High energy saving thanks to EC motors
• Integrate by-pass.
• Provided with 3 filters: the air is filtered in both flows before entering the heat exchanger.
• Easy maintenance and cleaning: filters and heat exchanger are removable and washable.
• Comply with EN 60335-2-80, B.T. 2014/35/UE, EMC 2014/30/UE.

## INSTALLATION EXAMPLES



Suitable for any kind of room
Ideal for wet rooms like kitchens and bathrooms.



**MAICO** ITALIA

# MODELS

RECSmart is available in a range of 3 models corresponding to 3 different duct length, with a unique duct diameter 100 mm. The measures reported on the dimensional drawing refer to the maximum thickness of the wall on which the ventilation unit can be installed: 400, 500, 600 mm.
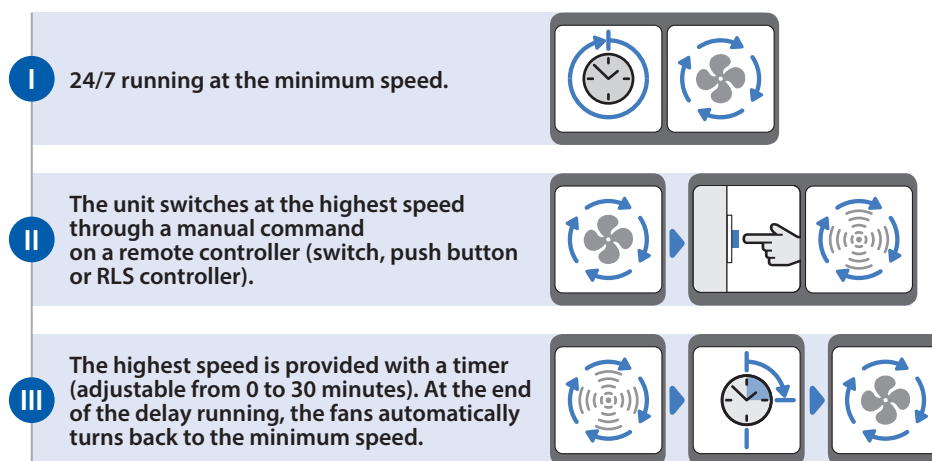Each model is available in 2 versions: Standard and MHY (Humidity control).

Both versions are provided with a timer function set on the maximum speed. The MHY humidity control version is provided with an exclusive technology patented by Maico Italia which allows to have the ventilation speed automatically set according to the detected humidity level.
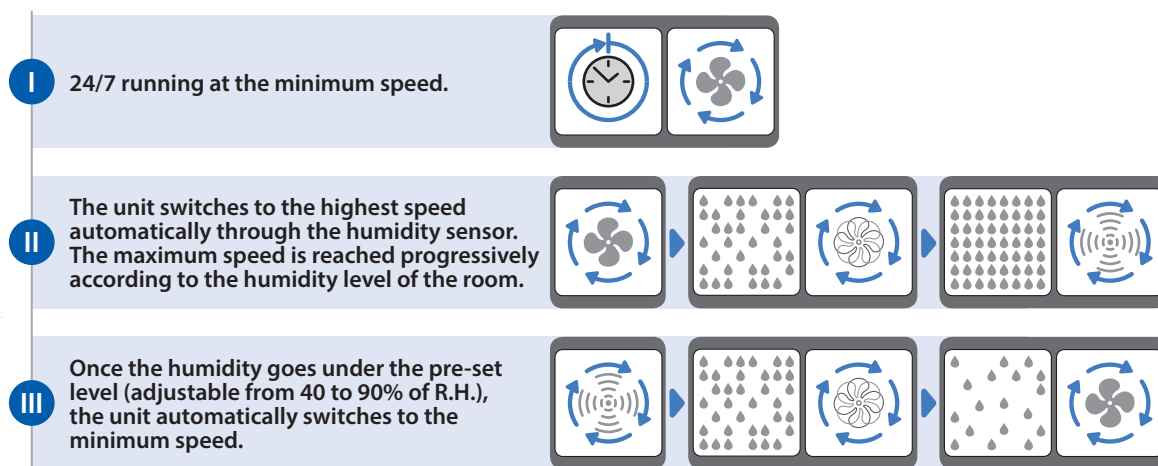
# OPERATION

## STANDARD Version

**I** — 24/7 running at the minimum speed.

**II** — The unit switches at the highest speed through a manual command on a remote controller (switch, push button or RLS controller).

**III** — The highest speed is provided with a timer (adjustable from 0 to 30 minutes). At the end of the delay running, the fans automatically turns back to the minimum speed.

## MHY Version
### Humidity control

**I** — 24/7 running at the minimum speed.

**II** — The unit switches to the highest speed automatically through the humidity sensor. The maximum speed is reached progressively according to the humidity level of the room.

**III** — Once the humidity goes under the pre-set level (adjustable from 40 to 90% of R.H.), the unit automatically switches to the minimum speed.

> Also the MHY version is provided with a timer adjustable from 0 to 30 minutes for the manual boost at the maximum speed. The function is useful in case it is necessary to have the fan running at the maximum speed independently from the humidity level (see point III standard version).
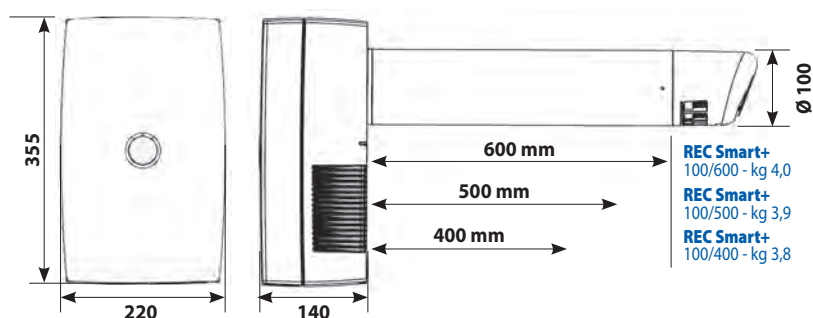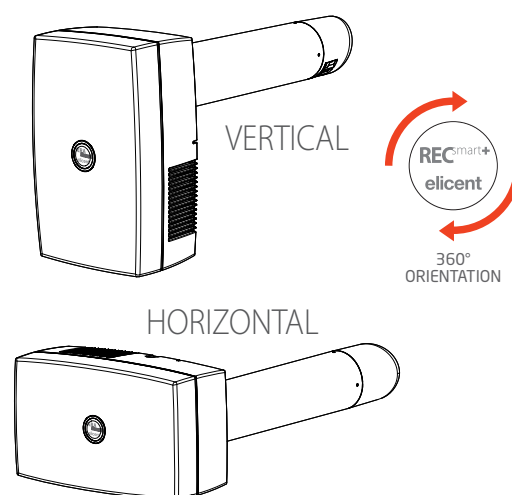
**!**

MAICO
ITALIA

# PERFORMANCE

| MODEL | DUCT | WALL THICKNESS | V at 50 Hz | m³/h | l/s | W | A | dB(A) | |
|---|---|---|---|---|---|---|---|---|---|
| | Ø mm | max mm | | | | | | LwA | LpA* |
| **STANDARD Version** | | | | | | | | | |
| REC Smart 100/400 | 100 | 400 | 230 | 27 / 53 | 8 / 15 | 8,3 / 28,3 | 0,075 / 0,207 | 48,3 / 59,4 | 27,7 / 39,3 |
| REC Smart 100/500 | 100 | 500 | 230 | 27 / 53 | 8 / 15 | 8,3 / 28,3 | 0,075 / 0,207 | 48,3 / 59,4 | 27,7 / 39,3 |
| REC Smart 100/600 | 100 | 600 | 230 | 27 / 53 | 8 / 15 | 8,3 / 28,3 | 0,075 / 0,207 | 48,3 / 59,4 | 27,7 / 39,3 |
| **MHY Version** | | | | | | | | | |
| REC Smart 100/400 - MHY | 100 | 400 | 230 | 27 / 53 | 8 / 15 | 8,3 / 28,3 | 0,075 / 0,207 | 48,3 / 59,4 | 27,7 / 39,3 |
| REC Smart 100/500 - MHY | 100 | 500 | 230 | 27 / 53 | 8 / 15 | 8,3 / 28,3 | 0,075 / 0,207 | 48,3 / 59,4 | 27,7 / 39,3 |
| REC Smart 100/600 - MHY | 100 | 600 | 230 | 27 / 53 | 8 / 15 | 8,3 / 28,3 | 0,075 / 0,207 | 48,3 / 59,4 | 27,7 / 39,3 |

* at 3 m in open field

# DIMENSIONS (mm)



355

220    140

600 mm — **REC Smart+** 100/600 - kg 4,0
500 mm — **REC Smart+** 100/500 - kg 3,9
400 mm — **REC Smart+** 100/400 - kg 3,8
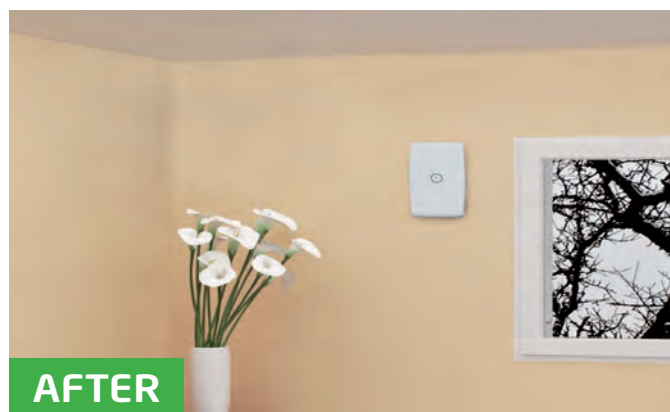
Ø 100

# INSTALLATION



VERTICAL

HORIZONTAL

REC smart+ elicent

360° ORIENTATION



**BEFORE**



**AFTER**

The system effectively helps to prevent the formation of meld on the walls when caused by insufficient natural ventilation.

MAICO ITALIA