

**Coupled installation in a single room or 2 separate rooms**



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

### FEATURES

- Very high efficiency decentralized HRU with heat recovery up to 90%.
- Ideal for residential applications and in any ambient where it is necessary to ensure a constant thermal comfort both in the summer and in the winter.
- Suitable for any kind of rooms.
- A coupled installation is recommended to optimize the system efficiency, in a single room or separate rooms.
- Direct exhaust through walls with thickness from 300 to 500 mm (adaptable to other wall thickness from 220 to 1000 mm: see section Dimensions).
- Suitable for conveying air to a max. temperature of 40°C.
- Stylish and ultra-slim front cover. Very compact dimensions.
- Provided with filters G3 class both in intake and in extract, easily removable and washable.
- Free-cooling function.
- EC brushless motor.
- Comply with EN 60335-2-80, LVD 2014/35/EU, EMC 2014/30/EU.
- IPX4
- CE marked

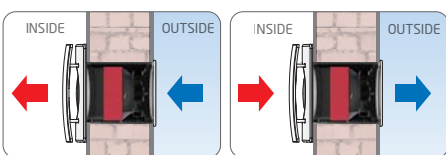
### Energy class A

- Thermal efficiency up to **90%**
- Ø100
- Easy Installation and maintenance:
  - Magnetic coupling/uncoupling of the unit
  - External grille with net, installable from the inside
  - Telescopic duct
- Wireless communication (REC duo 100 PLUS RC)
- Drastic solution to humidity and condensation problems

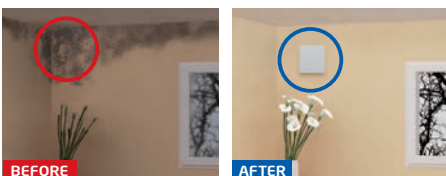
### OPERATION



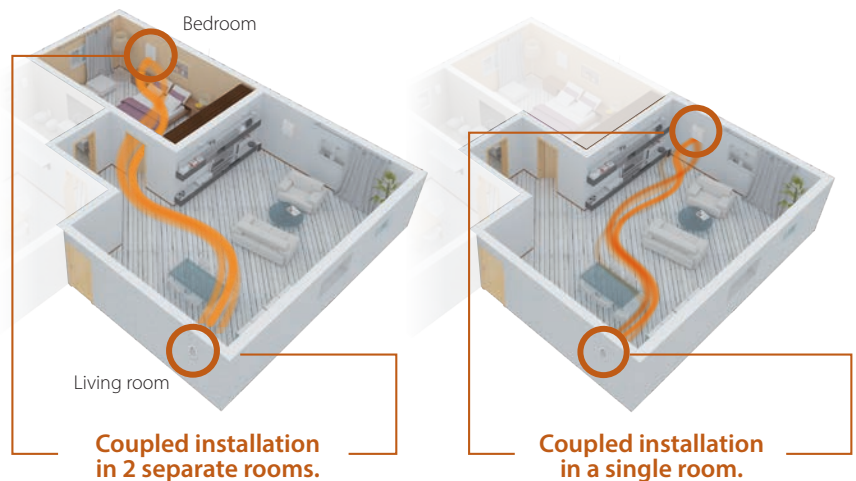
REC Duo 100 is a "push-pull" HRU with reverse flow. It is provided with a ceramic heat exchanger that accumulates the heat from the extracted air during the "pull" cycle and releases it to the new fresh air during the "push" cycle.



REVERSE FLOW **60** SECONDS



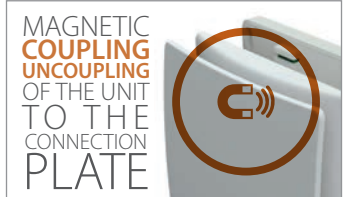
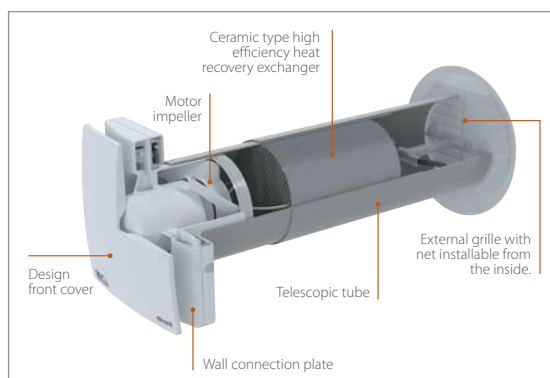
### EXAMPLES OF INSTALLATION



### PERFORMANCE

MODEL	DUCT	WALL THICKNESS	AIR FLOW min / max only exhaust	V AT 50 HZ.	W min / max only exhaust	dB(A)*
	Ø (mm)	min. / max (mm)	m <sup>3</sup> /h			Lp
REC Duo 100 - 100 MHY - 100 Plus RC	107	300 - 500	12 / 30 / 40	230	1 / 2,8 / 3,5	15 / 29

\* at 3 m in open field





### MODELS & OPERATION



#### REC DUO 100

24 hours running in push-pull modality at low speed (selectable between 2 at installation). The unit switches to the extraction operation modality when speed boost is activated through remote control switch or RLS controller (available as accessory). The maximum speed is provided with a timer (adjustable from 0 to 30 minutes). Once concluded the overrun via timer, the fan automatically switches back to the push-pull operation modality at low speed.



#### REC DUO 100 MHY

24 hours running in push-pull modality at low speed (selectable between 2 at installation). The unit switches to the extraction operation modality when speed boost is activated, manually or automatically: **Manually** via control switch or RLS controller (available as accessory). The maximum speed is provided with a timer (adjustable from 0 to 30 minutes). Once concluded the overrun via timer, the fan automatically switches back to the push-pull operation modality at low speed. **Automatically** via humidistat (adjustable from 45 to 85% of R.H). The fan speed increases/decreases according to the humidity level detected above the pre-selected threshold. It then switches back to the push-pull operation modality at low speed when the humidity level goes beneath the pre-selected threshold.

#### RLS

Available as accessory for REC DUO 100 and REC DUO 100 MHY



- On-Off
- Boost speed



#### RC REC DUO 100 PLUS RC

24 hours running in push-pull modality at low speed (adjustable by the end-user). Boost speed is available in push-pull modality and turns on automatically via humidistat (adjustable from 45 to 85% of R.H) and increases/decreases progressively according to the detected humidity level. In case of a persistent and high concentration of humidity, the unit automatically switches to the extraction operation modality. It then switches back to the push-pull operation modality at low speed when the humidity level goes beneath the pre-selected threshold. The unit is supplied with a remote controller for the selection and activation of advanced comfort ventilation functions.

REC Duo 100 PLUS RC is supplied with a remote controller through which selecting the speed and managing the following operation modalities:

##### 0 - On/off

##### 1 - Push-pull operation modality

24 hours reverse flow running at the selected speed

##### 2 - Speed 1 - Low speed set up

##### 3 - Speed 2 - Low speed set up

##### 4 - Boost speed with timer (extraction mode only)

##### 5 - Sleep mode

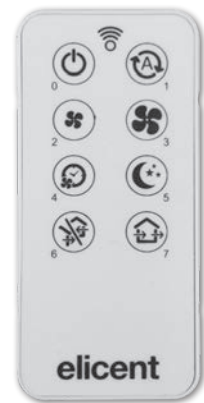
the operation at low speed is frozen for 8 hours to ensure high acoustic comfort during the night. The function can be unblocked at any time by pressing any button (except button 0).

##### 6 - Flow control

operation in intake or extract mode only.  
Press once: extraction mode  
Press twice: intake mode

##### 7 - Free-cooling mode: air exchange without heat recovery

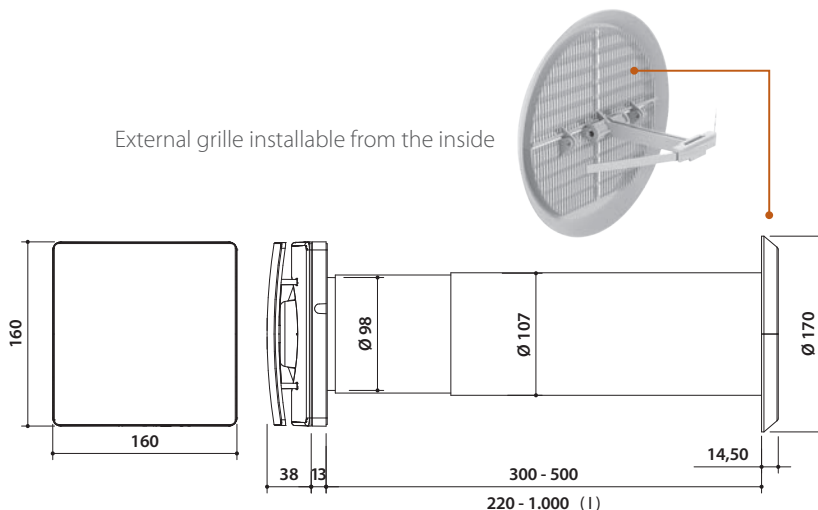
No reverse flow. Press once: the reverse flow stops and the fans go on running at the current flow. Press twice: all fans reverse their flow and go on running at the new selected flow.



##### Led signal:

any time a button is pressed, a led switches on the remote controller to indicate that the signal has been received.

### DIMENSIONS (mm)



(1)

- For walls with thickness > 500 mm:

It is necessary to use the telescopic duct available as accessory

**Cod. 2KT0014**



- For wall thickness between 220 and 300 mm:

it is necessary to cut the duct and to use the external grille MFE, available as accessory

**Cod. 2GE2002**





# REC duo 150

Decentralized Heat Recovery Unit  
Double flow with heat recovery

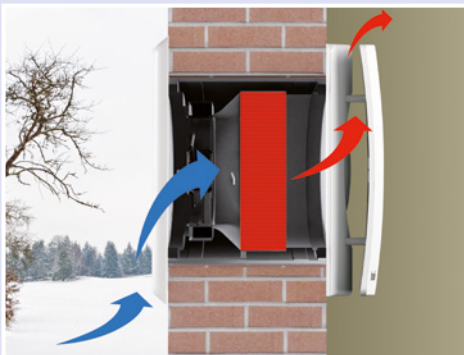
**Coupled installation in a single room or 2 separate rooms**



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

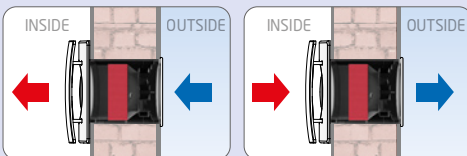
**Energy class A**  
(with humidity sensor)

- **Thermal efficiency up to 90%**
- Ø150
- **Easy Installation and maintenance:**
  - Magnetic coupling/uncoupling of the unit
  - External grille with net, installable from the inside
  - Telescopic duct
- **Wireless technology (REC duo 150 PLUS RC)**
- **Drastic solution to humidity and condensation problems**

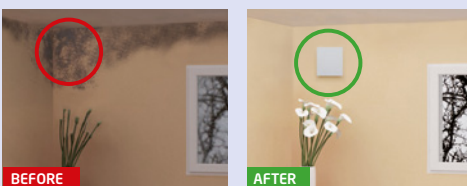


## PRINCIPLE OF OPERATION

REC duo 150 is a "push-pull" HRU with reverse flow. It is provided with a ceramic heat exchanger that **accumulates the heat** from the extracted air during the "pull" cycle and releases it to the new fresh air during the "push" cycle.



REVERSE FLOW **60 SECONDS**



Heat Recovery ventilation systems effectively contribute to preventing the mould forming on the walls when this is caused by insufficient natural ventilation.

## DESCRIPTION

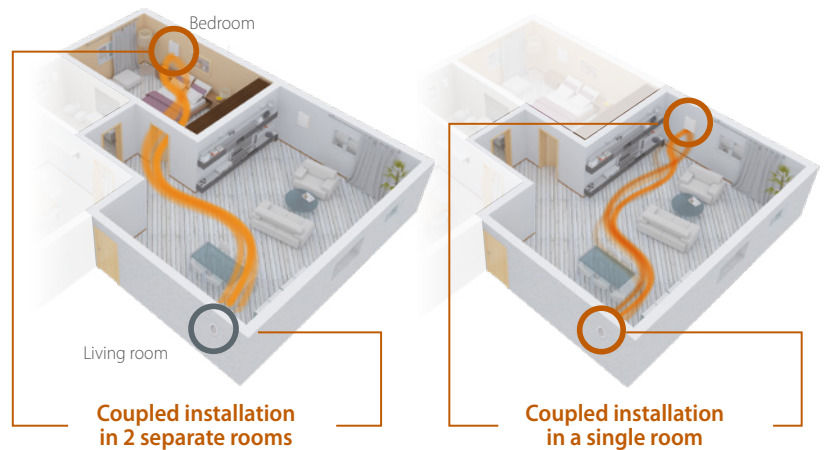
- Very high efficiency decentralized HRU with heat recovery up to 90%.
- Ideal for residential applications and in any environment where it is necessary to ensure a constant thermal comfort both in summer and in winter.
- Suitable for any kind of room.
- A coupled installation is recommended to optimize the system's efficiency, in a single room or in separate rooms.
- Direct exhaust through walls with thickness from 340 to 500 mm (adaptable to other wall thicknesses from 250 to 1000 mm: see section Dimensions).
- Suitable for conveying air to a max. temperature of 40°C.

## FEATURES

- Stylish and ultra-slim front cover. Very compact dimensions.
- High efficiency ceramic heat exchanger.
- Provided with G3-class filters both in intake and in extract, easily removable and washable.
- Free-cooling function.
- EC brushless motor.
- Complies with EN 60335-2-80, LVD 2014/35/EU, EMC 2014/30/EU.
- IPX4
- **CE** marked

## INSTALLATION EXAMPLES

Ideal in noble rooms such as bedrooms and living rooms.  
Maximum benefit with coupled installation.



## OPERATING SCHEME REC DUO 100 PLUS RC



# MODELS AND OPERATION



## REC DUO 150 Cod. 2RC1500

24 hours running in push-pull modality at low speed (selectable between 2 at installation). The unit switches to the extraction operation modality when speed boost is activated through remote control switch or RLS controller (available as accessory). The maximum speed is provided with a timer (adjustable from 0 to 30 minutes). Once concluded the overrun via timer, the fan automatically switches back to the push-pull operation modality at low speed.



## REC DUO 150 MHY Cod. 2RC1501

24 hours running in push-pull modality at low speed (adjustable by the end-user). Boost speed is available in push-pull modality and turns on automatically via humidistat (adjustable from 40 to 90% of R.H) and increases/decreases progressively according to the detected humidity level. In case of a persistent and high concentration of humidity, the unit automatically switches to the extraction operation modality. It then switches back to the push-pull operation modality at low speed when the humidity level goes below the pre-selected threshold. The unit is supplied with a remote controller for the selection and activation of advanced comfort ventilation functions.

## RLS Cod. 2RV4158

Available upon request as accessory for REC DUO 150 and REC DUO 150 MHY



- On-Off  
- Boost speed



## REC DUO 150 PLUS RC Cod. 2RC1502

24 hours running in push-pull modality at low speed (selectable between 2 at installation). The unit switches to the extraction operation modality when speed boost is activated, manually or automatically:

**Manually** via control switch or RLS controller (available as accessory). The maximum speed is provided with a timer (adjustable from 0 to 30 minutes). Once concluded the overrun via timer, the fan automatically switches back to the push-pull operation modality at low speed.

**Automatically** via humidistat (adjustable from 40 to 90% of R.H). The fan speed increases/decreases according to the humidity level detected above the pre-selected threshold. It then switches back to the push-pull operation modality at low speed when the humidity level goes beneath the pre-selected threshold.

REC DUO 150 PLUS RC is supplied with a remote controller, to select the speed and activate the following operation modalities:

### 0 On/off

**1 - Push-pull operation modality**  
24 hours reverse flow running at the selected speed

### 2 - Speed 1

Low speed set up (preset at 35 m<sup>3</sup>/h)

### 3 - Speed 2

Low speed set up (preset at 50 m<sup>3</sup>/h)

### 4 - Boost speed with timer (extraction mode only)

### 5 - Sleep mode

the operation at low speed is frozen for 8 hours to ensure high acoustic comfort during the night. The function can be unblocked at any time by pressing any button (except button 0).

### 6 - Flow control

operation in intake or extract mode only. Press once: extraction mode. Press twice: intake mode

### 7 - Free-cooling mode: air exchange without heat recovery.

No reverse flow. Press once: the reverse flow stops and the fans go on running at the current flow. Press twice: all fans reverse their flow and go on running at the new selected flow.



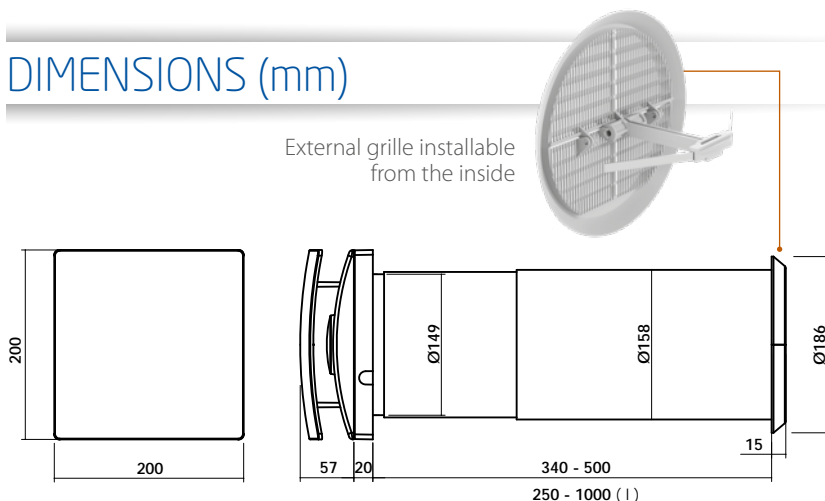
**Led signal:**  
any time a button is pressed, a led switches on the remote controller to indicate that the signal has been received.

# PERFORMANCE

CODE	MODEL	DUCT	WALL THICKNESS	AIRFLOW		W	dB (A)*
				min / max / only exhaust	min / max / only exhaust		
		Ø (mm)	min-max (mm)	m <sup>3</sup> /h	l/s	min / max / only exhaust	Lp
2RC1500	REC Duo 150	158	340 - 500	35 / 50 / 70	9,8 / 13,9 / 19,4	2,2 / 3,8 / 6,2	20 / 28 / 31
2RC1501	REC Duo 150 MHY	158	340 - 500	35 / 50 / 70	9,8 / 13,9 / 19,4	2,2 / 3,8 / 6,2	20 / 28 / 31
2RC1502	REC Duo 150 PLUS RC	158	340 - 500	30 / 60 / 70	8,3 / 16,6 / 19,4	1,6 / 5,7 / 6,2	17 / 30 / 31

\*Lp(A) measured at 3 m in open field 230V-50Hz

# DIMENSIONS (mm)



### (I) For walls with thickness > 500 mm:

It is necessary to use the telescopic duct available as accessory  
**Cod. 2KT0015**



### For wall thickness between 250 and 340 mm:

it is necessary to cut the duct and to use the external grille MFE, available as accessory  
**Cod. 2GE2005**

