



REC duo 100 SILENT

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%**

● Ø100

● **Easy Installation and maintenance:**

- Magnetic coupling/uncoupling of the unit
- Telescopic duct

● **Low consumption (min. 1 W)**



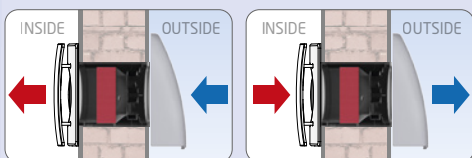
High acoustic insulation
 $D_{n,e,w}$ 45 dB

Soundproof outer cover

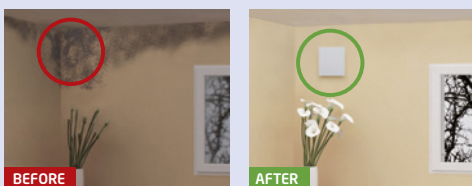
- High sound absorption: **designed to reduce noise from outside** and for particularly windy outdoor conditions
- Equipped with **self-extinguishing soundproof lining**
- Made of **stainless steel INOX 304** with a front inspection panel and anti-insect net

PRINCIPLE OF 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**



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

DESCRIPTION

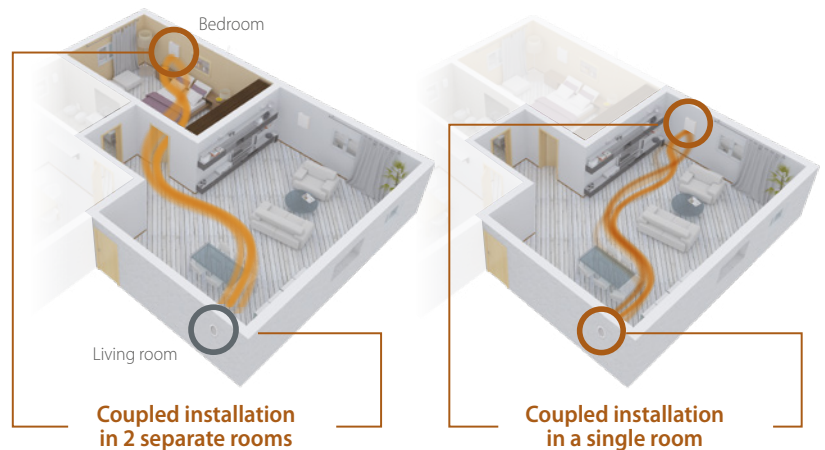
- Very high efficiency decentralized HRU with heat recovery up to 90%.
- Ideal for residential applications and in any environment where it is necessary to ensure a constant thermal comfort both in summer and in winter.
- Suitable for any kind of room.
- A coupled installation is recommended to optimize the system's efficiency, in a single room or in separate rooms.
- Direct exhaust through walls with thickness from 300 to 500 mm (adaptable to other wall thicknesses from 220 to 1000 mm: see section Dimensions).
- Suitable for conveying air to a max. temperature of 40°C.

FEATURES

- Extremely compact, flush-mounted construction made of high-quality, durable plastic.
- Highly efficient ceramic heat exchanger.
- Perfect thermal-acoustic insulation and no condensation problems.
- Equipped with class G3 polypropylene filters for air filtration in both intake and extraction, before passing through the heat exchanger. Easily removable filters for replacement or washing.
- Free-cooling function.
- EC brushless motor.
- Complies with EN 60335-2-80, B.T. 2014/35/UE, EMC 2014/30/UE.
- 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 SILENT



Wireless communication

As far as 6 appliances

MODELS AND OPERATION



REC DUO 100 SILENT Cod. 2RC1108

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 SILENT Cod. 2RC1208

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.

RLS Cod. 2RV4158

Available upon request as accessory for REC DUO 100 e REC DUO 100 MHY SILENT



- On-Off
- Boost speed



REC DUO 100 PLUS RC SILENT Cod. 2RC1308

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 100 PLUS RC SILENT, 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

3 - Speed 2

Low speed set up

4 - Boost speed with timer

(extraction mode only)

5 - Sleep mode

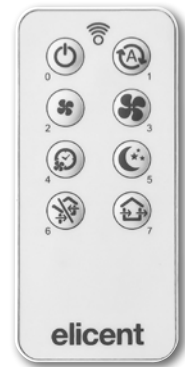
the operation at low speed is frozen for 8 hours to ensure high acoustic comfort during the night. The function can be unblocked at any time by pressing any button (except button 0).

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:

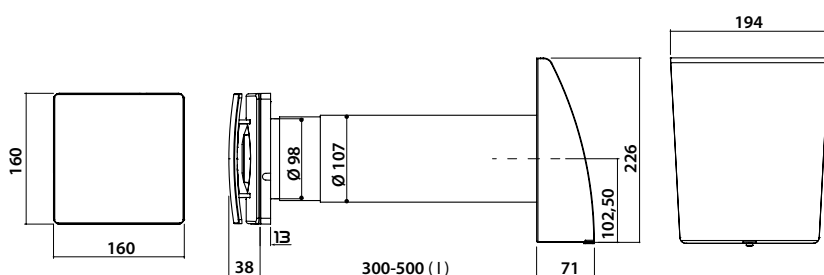
any time a button is pressed, a led switches on the remote controller to indicate that the signal has been received.

PERFORMANCE

CODE	MODEL		DUCT		AIRFLOW	W	dB (A)*
			Ø (mm)	min-max (mm)	min / max / only exhaust m³/h		
2RC1108	REC Duo 100 SILENT		107	300 - 500	12 / 30 / 40	1 / 2,8 / 3,5	15 / 29
2RC1208	REC Duo 100 MHY SILENT		107	300 - 500	12 / 30 / 40	1 / 2,8 / 3,5	15 / 29
2RC1308	REC Duo 100 PLUS RC SILENT		107	300 - 500	12 / 30 / 40	1 / 2,8 / 3,5	15 / 29

*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. 2KT0014**



For wall thickness between 220 and 300 mm cut the telescopic duct