DYREC^{dug}

Decentralized Heat Recovery Unit





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

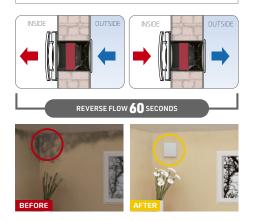
Energy class A

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

OPERATION



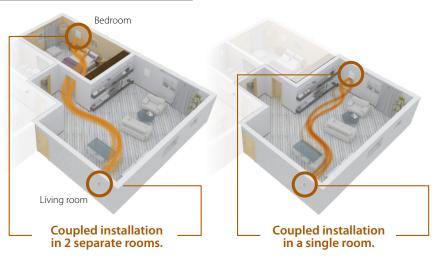
DYREC Duo 100 is a "push-pull" HRU with reverse flow. It is provided with a ceramic heat exchanger that accumulates the heat from the extracted air during the "pull" cycle and releases it to the new fresh air during the "push" cycle.



FEATURES

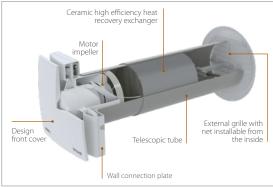
- Very high efficiency decentralized HRU with heat recovery up to 90%.
- Ideal for residential applications and in any environment where it is necessary to ensure a constant thermal comfort both in summer and in winter.
- Ideal for habitable spaces (living rooms, bedrooms).
- A coupled installation is 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.
- Stylish and ultra-slim front cover. Very compact dimensions.
- 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.





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)	m³/h			Lp
DYREC Duo 100 - 100 MHY - 100 Plus RC	107	300 - 500	12/30/40	230	1 / 2,8 / 3,5	15 / 29





Decentralized Heat Recovery Unit



MODELS & OPERATION

DYREC DUO 100

RC

functions.

(adjustable by the end-user).

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 pushpull operation modality at low speed.

24 hours running in push-pull modality at low speed

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 progressi-

In case of a persistent and high concentration of humi-

dity, the unit automatically switches to the extraction operation modality. It then switches back to the pu-

sh-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 se-

lection and activation of advanced comfort ventilation

vely according to the detected humidity level.

DYREC DUO 100 PLUS RC

\mathbf{X} DYREC 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.

DYREC Duo 100 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
- 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

RLS

Available upon request as accessory for DYREC DUO 100 and DYREC DUO 100 MHY



- On-Off - Boost speed



Led signal:

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

