DucoBox Reno

The **NUMBER 1** ventilation box for Social Housing and Flats

Optimal ventilation performance
Centralized built-in humidity detection

Copy functionnality for serial housing
Ideal for social housing and student flats

Certified Quality
SAP/Appendix Q listed and BRE approved

DucoBox **Reno**

First choice for sustainable renovation

The **DucoBox Reno** is ideally suited for replacement projects. This smart renovation box allows installers to exchange an outdated ventilation system up to 25% faster. The DucoBox Reno is a demand-controlled ventilation system that cleverly uses **intelligent sensors** and **efficient balancing technology**. The system combines the strengths of existing solutions and addresses the weaknesses.

What distinguishes this ventilation box?

1. **QUICK INSTALLATION**
2. **ENERGY-SAVING**
3. **EASY-TO-SERVICE**

1 QUICK INSTALLATION

The DucoBox Reno is the most compact central ventilation box in the market that can replace any existing unit. With its height of 20 cm, the DucoBox Reno is very easy to conceal. The unit is adjusted without having to remove the lid off the ventilation unit. Via a cover, all control buttons are immediately accessible, without having to use additional tools. The **smart copy function** makes it possible to transfer settings to similar homes within serial construction.

→ with standard moisture measurement

2 ENERGY-SAVING

The DucoBox Reno features an energy-efficient backward curved fan. Furthermore, **moisture measurement is provided as standard** and the demand control can be further refined with a quickly installed **"Plug & Play" CO_2 Box sensor**. As with all DUCO solutions, this can be complemented by any modular controls and room sensors.

CO_2 Box sensor (optional)

Take the leap towards a **green and sustainable future**!

With a maximum power consumption of 47W, the DucoBox Reno is **very energy-efficient**. Add smart demand management to this and save up to 40% energy!

3 EASY-TO-SERVICE

The **limited number of parts** makes maintenance of the system very easy. The motor with backward-curved blades is also quick and easy to clean. For smart delivery, a remote control can be snapped onto the ventilation box.

Renovation

Duco Reno System

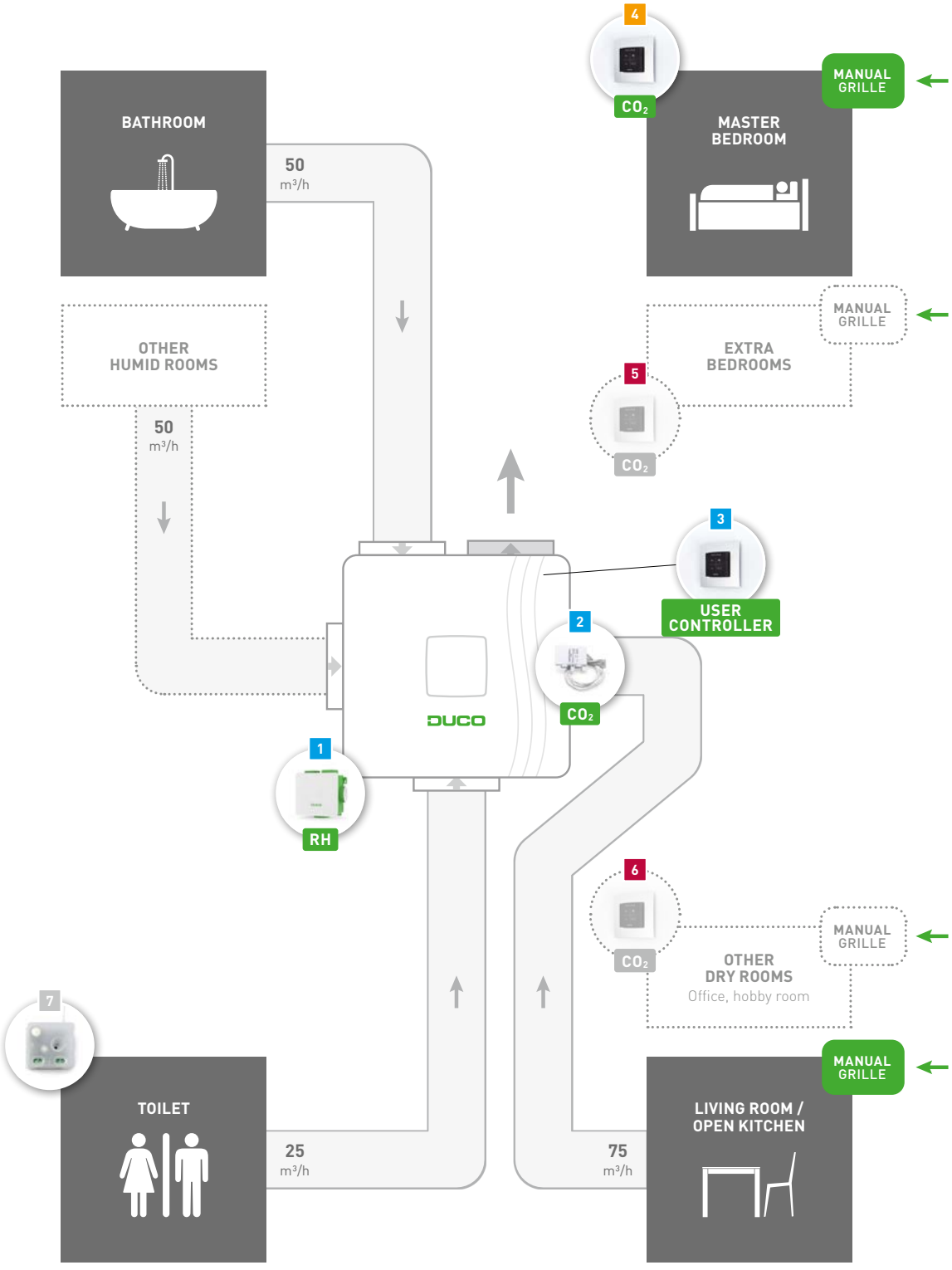
MEV system | Central ventilation (1 zone) | Up to 325 m³/h (90 l/s) at 150 Pa
With CO_2 Box sensor

CONTROL ON
EXTRACTION

COMPONENTS

			Component on diagram
DucoBox Reno (UK)	0000-4948		1
CO_2 Box sensor DucoBox Reno	0000-4743		2
	Black	White	
Remote control **RF / Wired**	0000-4601	0000-4602	3
Remote control **RF / Battery**	0000-4175	0000-4600	
CO_2 Room sensor **with** control **RF/Wired**	0000-4603	0000-4604	4
CO_2 Room sensor **without** control **RF / Wired**	0000-4636	0000-4637	5 6
Humidity Room sensor **with** control **RF / Wired**	0000-4605	0000-4606	
Surface-mounted box DUCO controllers / sensors available Q2/2025	-	0000-5009	
Switch sensor **RF/230 VAC** *	0000-4174		7

→ See chapter 'Vents' from page 90 for more information on all types of vents.



Energy label	Extraction	Detection	Required components	Optional components
B	Central	High-humidity rooms	■	■
B	Central	Damp areas + master bedroom	■ + ■	■
B	Central	Damp rooms + all bedrooms	■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

DUCOBOX RENO IN FIGURES

Versions

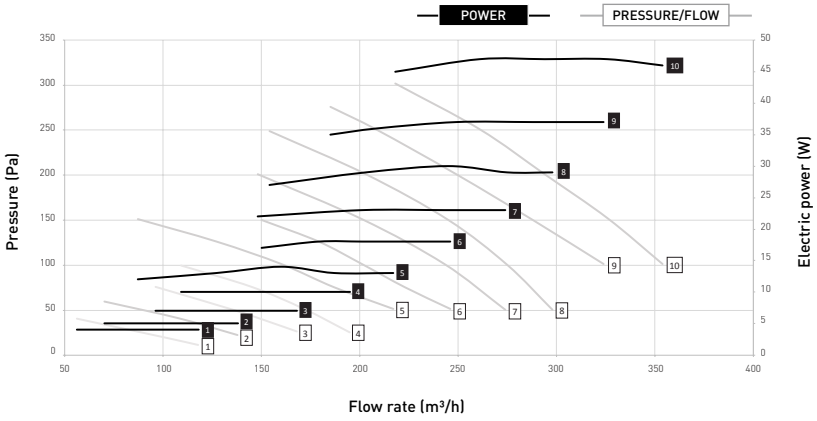
DucoBox Reno UK	0000-4948

Physical properties

Width x Height x Depth (mm)	380 x 365 x 204
Extraction capacity at 150 Pa	325 m³/h
Weight	3,0 kg
Colours	Green with white lid
Communication	Duco RF Box sensor CO_2
Power cable length	1,5 m

Electrical characteristics

Unom	230 VAC – 50 Hz
Pmax	47 W
IP class	IP42
Inom	0,37 A
Cos (φ)	0,55



Flow rate Qv m³/h	Pressure Pa	Noise level Lw*
		Emission from casing dB(A)
325	150	51
275	100	47,5
200	100	42,5
150	75	38
100	75	35,5

100% UNBURDENING?

Send us your project!

DUCO offers project support from A to Z. Send us your project and receive a no-obligation proposal with material requirements (incl. ventilation boxes, control components and accessories).

www.duco.eu/yourproject

DUCO

We inspire at **www.duco.eu**

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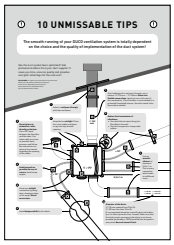

Please refer to page 106 for essential installation tips!

DucoBox Reno

MEV system Up to **325 m³/h** (90 l/s) at 150 Pa

The DucoBox Reno UK is a Central Mechanical Extract Ventilation (CMEV) system, designed for houses and apartment buildings. With its continuous operation, it ensures **optimal indoor air quality** while delivering exceptional energy efficiency and silent performance.

Whether you are developing social housing projects or modern apartments, the DucoBox Reno UK provides a **reliable, cost-effective solution** for achieving excellent ventilation standards. By integrating cutting-edge technology, this system meets the diverse demands of today's housing market, combining user comfort, sustainability, and straightforward compliance with UK building regulations.

FEATURES

Width x Height x Depth: 381 x 366 x 204 mm **Weight:** 3,1 kg **Extraction capacity at 150 Pa:** 325 m³/h (90 l/s) **Power supply:** 230 VAC	**Energy label:** class B in a system with at least two sensors **Communication:** RF	**Peak power:** 47 W **Air duct connections:** Extraction areas: 4 x ∅ 125 mm 1 x rear connection Extraction to the outside: 1 X ∅ 125 mm

VENTILATION UNIT

DucoBox Reno (UK)	0000-4948

CONTROL COMPONENTS DucoBox Reno

DucoBox Reno is equipped with a RH measurement in the scroll as standard.

→ CO_2 BOX SENSOR

The optional CO_2 Box Sensor can be installed very easily and quickly and provides CO_2 measurement in an air duct. The sensor is wired direclty to the printed circuit board. This means that no wiring for room sensors needs to be provided. A DucoBox Reno contains a maximum of one box sensor – which can be clicked into a specific duct opening.

Peak power: < 1 W	**Stand-by power:** < 1 W	**Power supply:** From the DucoBox

CO_2 Box sensor DucoBox Reno	0000-4743

→ EXTERNAL CONTROL COMPONENTS

The DucoBox Reno can be connected to the following external control components.

User controls and room sensors	see page 80
Switch sensor (for switch detection)	see page 82

USER CONTROLS AND ROOM SENSORS

User controllers and room sensors contain **one or both** of the following functions:

User controller

Using the buttons, the user sets the operation of the ventilation system to the desired level:

- Automatic mode (recommended): CO_2 and/or humidity measurements determine the operation of the ventilation system via intelligent algorithms. This guarantees optimum air quality in the most efficient way.
- Manual settings: the ventilation system ventilates at POS setting 1, POS setting 2 or POS setting 3.

Measuring air quality

Sensors continuously measure the CO_2 or humidity level (as well as temperature) in the rooms where they are installed. The measurements determine the operation of the ventilation system when it is in automatic mode.

All controls and room sensors also function as RF repeaters (except battery-operated controls).

RF/ Wired models	Battery-powered model
Power supply: RF: 230 VAC | Wired: 24 VDC **Width x Height x Depth:** 69 x 69 x 55 mm **Display:** 4 RGB LEDs **Peak power:** 1.8 W | **Stand-by power:** 1.2 W **Communication:** RF and wired **Colour:** Control: black or white | Supplied cover plate: white	**Battery:** CR2430 3V coin cell battery **Width x Height x Depth:** 69 x 69 x 17 mm **Display:** 1 bicolor LED **Communication:** RF **Colour:** Control: black or white | Supplied cover plate: white

User controllers + air quality measurement

These contain both a **user controller** and **room sensors** (CO_2 or humidity) for air quality measurement.

	Black	White
CO_2 Room sensor **with** control **RF/Wired**	0000-4603	0000-4604
Humidity Room sensor **with** control **RF / Wired**	0000-4605	0000-4606

User controller only

These contain only a **user controller**. Ideal in rooms where measurement is not required, or where measurement is done by other means (in the duct).

	Black	White
Remote control **RF / Battery**	0000-4175	0000-4600
Remote control **RF / Wired**	0000-4601	0000-4602

Air quality measurement only

Room sensors that are only equipped with a **CO_2 sensor**.
Ideal for bedrooms where no user controller is necessary.

	Black	White
CO_2 Room sensor **without** control **RF / Wired**	0000-4636	0000-4637

Surface-mounted box

By using the optional surface-mounted box, DUCO controllers and sensors can be easily applied in renovation projects.

Surface-mounted box DUCO controllers / sensors **available Q2/2025**	0000-5009

WIRED COMPONENTS

Wired / 24 VDC components require a **transformer from 230 VAC to 24 VDC**. It is possible to work with a Duco Power supply as a central power supply to power the component from the wall socket. See "Options & accessories" for the ventilation unit.

SWITCH SENSOR

The Switch Sensor can perform either or both of the following functions:

Switch detection: the ventilation system will perform a function when closing a (two-pole) dry contact. Suitable for toilet detection or overrule setting (only one function per switch sensor).

Repeater: the switch sensor is ideally suited as a repeater to strengthen the signal in the event of RF communication problems. In that case the switch sensor must be positioned in such a way that the distance to be bridged and/or interference by obstacles is reduced.

A switch sensor is easy to conceal thanks to its small size.

Width x Height x Depth: 41 x 37 x 20 mm **Weight:** 21 g **Color:** white	**Peak power:** 0.5 W **Standby power:** 0.4 W	**Power supply:** 230 VAC **Communication:** RF

Note: An external switch sensor is not required if a switch is connected to the onboard dry contact on the circuit board of the 'master' unit (DucoBox or IQ unit). Use a double-pole switch or relay and a 2 x 0.8 mm²cable for this. Refer to the **Onboard dry contact information sheet (L8001001)** for connection instructions.

Switch sensor **RF/230 VAC**	**0000-4174**