

Vasco C400RF (LE)

Description

The C400RF (LE) is a mechanical extract ventilation unit for Type C ventilation systems, suitable for both new-build and refurbishment projects.

The unit operates on the principle of free air supply and mechanical extraction and is fitted as standard with an integrated humidity sensor, which automatically regulates the extraction flow rate based on the measured humidity of the extracted air.

The C400RF (LE) is available in various versions, which differ in terms of accessories and electrical connection: these include an earthed plug or Perilex plug, supplied components such as valves, and whether or not an internal sound-insulating mat is included.

Design

Connections:

The unit is fitted with four extraction connections on the sides, with the option of adding an extra connection at the rear.

- ✓ Extraction connections on the house:
 - 3x Ø 125 mm on the sides
 - 1x Ø 150 mm on the side
 - 1x maximum Ø270 mm at the rear
- ✓ Exhaust connection to the outside:
 - 1x Ø 150 mm on the side

Mounting:

The unit is installed in a frost-free area and can be mounted on a wall, ceiling, floor or pitched roof, in any of the permitted orientations. It is secured using four fixing points, tailored to the surface.

Variant:

C400RF: consisting of a C400RF ventilation unit and an RF 3-position switch.

Fanbox C400RF LE: consisting of a C400RF LE ventilation unit, with an RF 3-position switch and 4 air valves.

Renobox C400RF LE: consisting of a C400RF LE ventilation unit, with a pre-fitted Perilex plug.

Material

Exterior:

The exterior of the ventilation unit is made of plastic (polypropylene)

Interior:

The interior consists of a plastic fan housing and internal structural components, such as the fan housing with circuit board and sensors. A sound-insulating block is integrated into the housing (not applicable to the C400RF LE ventilation unit). The front and rear panels can be removed for maintenance.

Technical specifications

Dimensions:

Height:	470 mm
Width:	460 mm
Depth:	311 mm

Weight:

5.5 kg

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Technical specifications

Supply voltage:	C400RF & Fanbox C400RF LE The ventilation unit is powered by 230 V AC, 50 Hz, and is fitted with a pre-assembled earthed cable with a Euro plug. Renobox C400RF LE The unit is fitted with a pre-assembled Perilex plug for connection to existing installations with a three-way Perilex connection. The plug must only be inserted into a correctly wired Perilex wall socket and only once the installation has been fully assembled.
Maximum power consumption:	58.8 W at 400 m ³ /h – 150Pa
Maximum air flow rate:	400 m ³ /h – 150 Pa
Noise level:	48 dB(A) (standard version) 56 dB(A) (LE version)
Energy class:	D
Fans:	The ventilation unit is fitted with a single EC radial fan with backward-curved blades, mounted in a spiral casing. The fan is designed to provide stable and efficient air movement and allows for easy cleaning. The air flow is controlled via variable speed.

Features

Regulation / control:	Electronic fan control based on constant speed rotation.
Internal moisture sensor:	The ventilation unit features automatic control based on relative humidity. An internal humidity sensor measures the moisture content in the air and adjusts the air flow rate accordingly.

Controls

RF 3-position switch:	The C400RF and Fanbox C400RF LE come as standard with a wireless RF 3-position switch. The Renobox C400RF LE is supplied without an RF 3-position switch and is fitted as standard with a Perilex plug. The RF 3-position switch is powered by a 3V lithium CR2450(N) battery with an average lifespan of up to 10 years. Communication with the ventilation unit is wireless (RF). The switch has the following functions: ✓ Operating the ventilation mode (1, 2, 3, Timer) ✓ Setting the maximum air flow rate ✓ Resetting the filter dirt message ✓ LED feedback for error messages Dimensions: H: 83 mm W: 83 mm D: 15 mm Housing: plastic
3 positions contact:	The ventilation unit can be controlled via a contact on the circuit board, with three speeds available. Speed 1 provides an air flow rate of 100 m ³ /h, speed 2 provides 200 m ³ /h, and speed 3 provides the maximum set air flow rate (400 m ³ /h).

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Accessories

RF CO₂ switch (surface-mounted):

For automatically controlling and regulating the air flow rate of the ventilation unit based on the CO₂ level in the room. The switch must be connected to a supply voltage of 230V+N and the communication with the ventilation unit is wireless. To be mounted on a wall in construction by means of screw mounting.

The switch has the following functions:

- ✓ Operating the ventilation mode (1, 2, 3, Eco, Comfort)
- ✓ 2 automatic modes (Eco = 950 ppm and Comfort = 800 ppm)
- ✓ LED feedback for error messages
- ✓ Automatic self-calibrating

Dimensions:

H: 100 mm
W: 100 mm
D: 28 mm

Housing: plastic

RF RH Switch:

For automatic control and regulation of the air flow rate of the ventilation unit based on the relative humidity (%) in the room. The switch is equipped with 2 alkaline batteries 1.5V AA for power supply and communication with the ventilation unit is wireless. To be mounted on a wall in construction by means of screw mounting.

The switch has the following functions:

- ✓ Operating the ventilation mode (1, 2, 3, Eco, Comfort)
- ✓ 2 automatic modes (Eco = 60 min setting 2 and Comfort = 30 min position 3)
- ✓ LED feedback for error messages

Dimensions:

H: 100 mm
W: 100 mm
D: 28 mm

Housing: plastic

Gateway:

For operating and reading the ventilation unit via the Vasco Climate Control App. The Gateway must be connected via the supplied micro-USB cable + adapter to a 230V+N socket and the communication with the ventilation unit is wireless. The connection to the modem (LAN) is done via the supplied UTP cable. To be mounted on a wall.

The gateway has the following functions:

- ✓ Operating the ventilation mode (1, 2, 3, Timer, Auto, Away, Party, Vacation, Fireplace)
- ✓ Automatic weekly program
- ✓ Status of bypass, electric preheating element, etc.
- ✓ Display of error messages
- ✓ Setting parameters (e.g. ventilation flows, temperature bypass)

Dimensions:

H: 105 mm
W: 81 mm
D: 28 mm

Housing: plastic