



Save energy, maintain performance.

275/350/425/500 Boost (H)

CO₂ ZoneControl



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Save energy, maintain performance.

The 275/350/425/500 Boost (H) ventilation unit is a balanced ventilation system with heat recovery, designed for permanent and continuous operation. With this addition, Vasco strengthens its range of ventilation solutions for residential applications.

This energy-efficient and sustainable solution ensures a healthy and comfortable indoor climate in both houses and apartments.

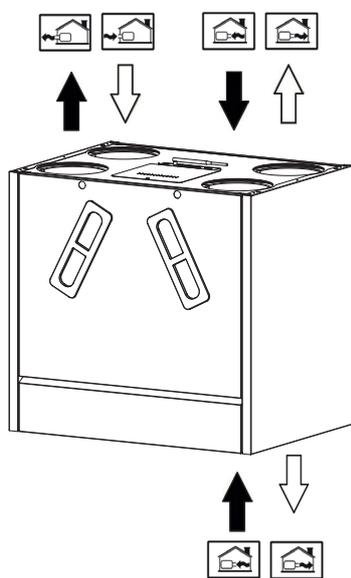
Advantages

- **Suitable for both houses and apartments.**
- **Balanced ventilation** with heat recovery and 100% bypass.
- **Flexible installation:** choice of top and bottom connections, separate or combined.
- **Smart control:** wireless (RF), Modbus, or 0–10V signal.
- **Complete system** with EasyFlow® and insulated air ducts.
- Available with CO₂ ZoneControl for **optimal air quality**.
- Optional **enthalpy heat exchanger** for enhanced comfort.

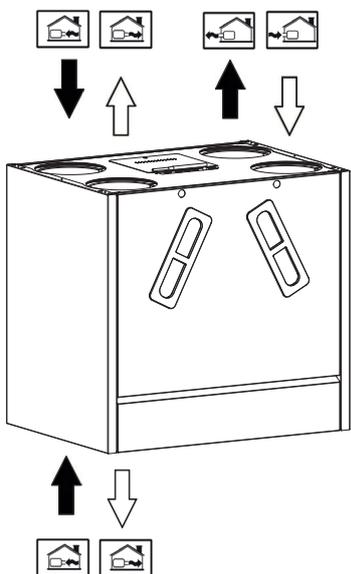




Standard configuration: Right



Mirrored configuration: Left



Thoughtful design, easy installation.

Vasco's new heat recovery ventilation system first filters the outdoor air and then passes it through a high-quality heat exchanger. This ensures a healthy and comfortable indoor climate.

The **275/350/425/500 Boost (H)** ventilation unit combines ease of use with flexibility: the unit is reversible and equipped with both top and bottom connections, offering significantly more installation possibilities.

Thanks to the integrated dual bypass function, the system operates with exceptional energy efficiency. When heat recovery provides no benefit, the air automatically bypasses the heat exchanger. In addition, the free-cooling function (ideal during a cool summer night) and free-heating function (for example on a chilly spring or autumn day) help maintain an optimal indoor climate perfectly adapted to the outdoor temperature.





General Features

- Compact ventilation unit suitable for wall mounting
- Painted metal casing with airtight internal EPP construction (expanded polypropylene)
- Reversible airflow possible through mirrored installation
- Indoor air duct connections at the top and/or bottom (freely selectable)

Ventilation & Control

- DC radial fans with backward-curved blades
- Automatic, pressure-independent speed control for constant airflow
- Fully automatic bypass:
 - Free-cooling
 - Free-heating
 - Internal humidity sensor for automatic airflow regulation

Heat Exchanger

- High-efficiency plastic heat exchanger
- Plastic enthalpy heat exchanger for “H” versions

Control & Communication

- RF 3-position switch:
 - Wall-mounted (surface installation)
 - 3 ventilation speeds + Timer function + Auto mode
 - Adjustable maximum airflow
 - LED feedback
 - Battery powered (3V Lithium CR2450N)
- 3-speed contact, control via e.g. building management system
- 1–10 V contact, control via e.g. building management system
- Modbus contact, control via e.g. building management system
- Alarm contact that closes in case of a fault or dirty filters

Filters

- ISO16890 Coarse 65% (= G4 according to EN779) for supply and extract air
- ISO16890 ePM1 55% (= F7 according to EN779) available as an option

Accessories

- Dry siphon included

Optional Enthalpy Heat Exchanger.

The **275/350/425/500 Boost (H)** is also available with an enthalpy heat exchanger (type “H”). This innovative exchanger recovers not only heat and cooling energy, but also moisture from the extracted air. As a result, the relative humidity in the home remains better balanced, even during the winter months.

Everything is fully integrated into the ventilation unit — no additional components are required.





RF 3-position switch



RF RH switch



RF CO₂ wall-mounted switch



RF CO₂ flush-mounted switch



RF control display



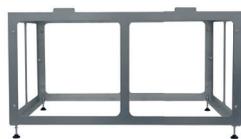
Gateway for Vasco Climate Control App



CO₂ ZoneControl



Preheating element



Mounting bracket

Options

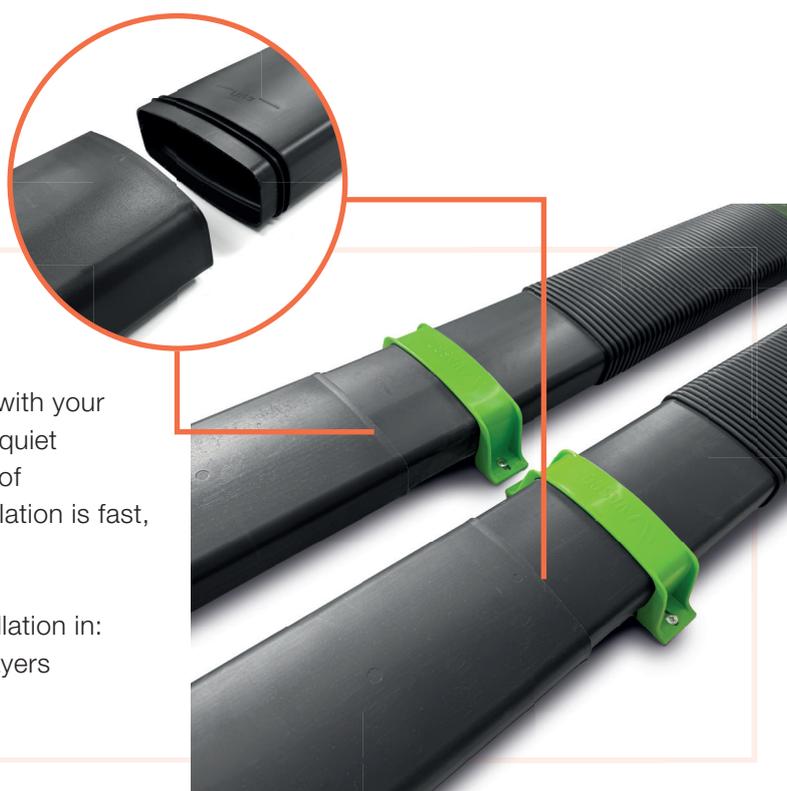
- Electric preheating element:
 - PTC element
 - Modulating control
 - Power: 0.7–1.4 kW
 - Surface-mounted installation (DN180)
- Two-zone control via external valves and RF CO₂ switch (CO₂ ZoneControl)
- Additional RF 3-position switches
- Demand control via RF RH (humidity) switch (battery powered – 2×1.5V AA)
- Demand control via RF CO₂ flush-mounted or wall-mounted switch (power supply: 1×230V + N)
- Control via RF control display (power supply: 1×230V + N)
- Control via Vasco Climate Control App through Gateway
- Mounting bracket for free-standing vertical installation

EasyFlow®

The Vasco EasyFlow® air duct system combines with your Vasco ventilation unit to create a unique, whisper-quiet ventilation solution. Thanks to the limited number of components and a smart logistical concept, installation is fast, simple, and worry-free.

The EasyFlow® duct system is also ideal for installation in:

- Suspended ceilings
- (Light) leveling layers
- Insulation layers
- Screed floors



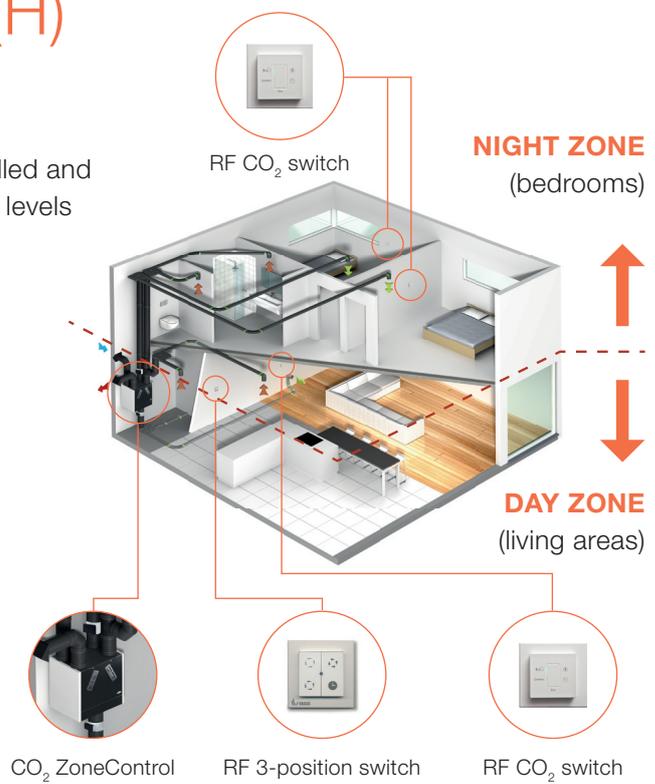


The ideal combination 275/350/425/500 Boost (H) + CO₂ ZoneControl

CO₂ ZoneControl is an innovative solution for demand-controlled and zoned ventilation. The system is based on the measured CO₂ levels in specific zones of the home.

By installing two air valves on separate supply ducts, the airflow in two zones can be individually regulated. In most cases, these zones are the day zone (living areas) and the night zone (bedrooms).

Each zone is equipped with at least one RF CO₂ switch. Based on these measurements, the CO₂ ZoneControl automatically determines the required ventilation rate per zone. In this way, the ventilation unit and ZoneControl work together seamlessly to maintain constant indoor air quality in the most energy-efficient way.



Automatic ventilation based on occupancy



High-quality, reliable components



Energy-efficient and cost-saving



Wireless communication



Fully automatic and modulating system



Easy installation



The CO₂ ZoneControl is standardly equipped with:

2x zone valves:

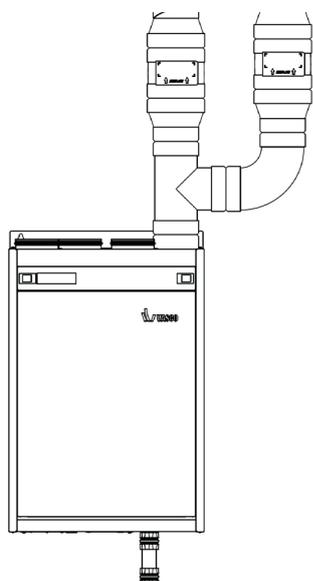
- Connection: DN160 male with rubber seal
- Plastic housing and valve body
- Stepper motor for regulating the valve position (in both master and slave valve)
- Electronic compartment with circuit board (in master valve)
- Wireless RF communication with the RF CO₂ switch and the ventilation unit
- Push buttons and LED indicators on the circuit board for commissioning and error messages
- Power supply (master valve) via 5V power adapter, cable length 2 m (factory pre-connected)
- Power supply (slave valve) via 24V connection from the master valve, cable length 1.5 m (factory pre-connected)

2x RF CO₂ switch:

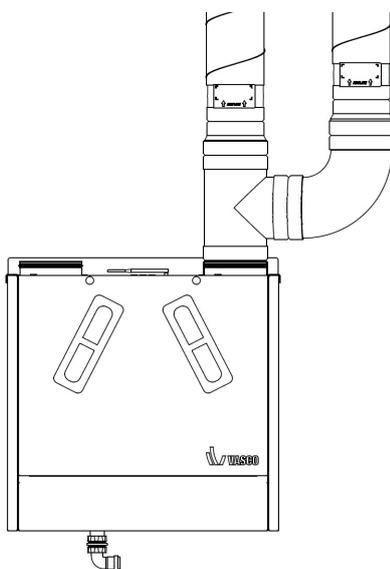
- Wall-mounted flush installation (screw fixation)
- Dimensions (L × W × D):
83 × 83 × 8 mm (design frame) and
55 × 55 × 7 mm (finishing cover)
- Plastic housing
- Wireless RF communication with the zone valve and the ventilation unit
- Capacitive touch control area
- 3 ventilation modes + 2 “auto modes” with LED illumination
- Status indication LED (lights up after operation) for CO₂ level and error codes
- Power supply via external source (1 × 230V + N)

The CO₂ ZoneControl can only be combined with a Vasco ventilation unit of type 225 Compact (LE) or 275/350/425/500 Boost (H).

T-piece connection:

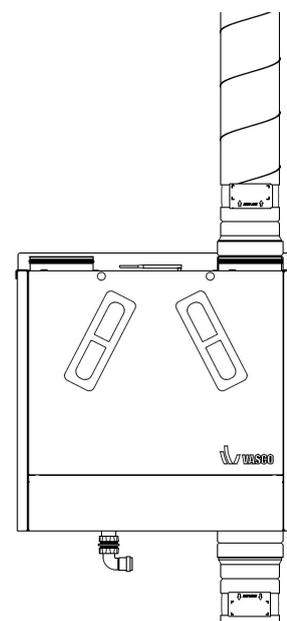


225 Compact (LE)



275 / 350 / 425 / 500 Boost (H)

Top and bottom connection:



275 / 350 / 425 / 500 Boost (H)



Technical specifications

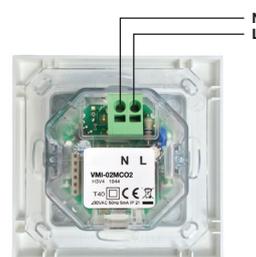
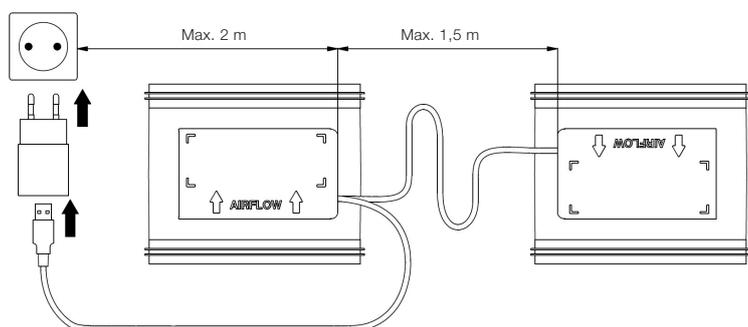
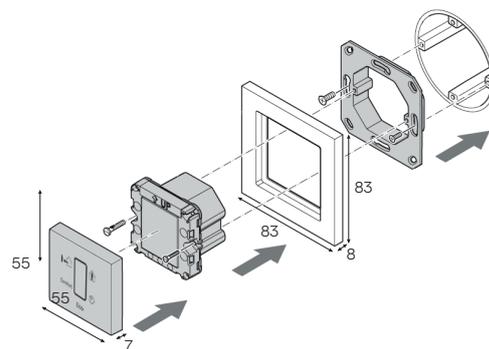
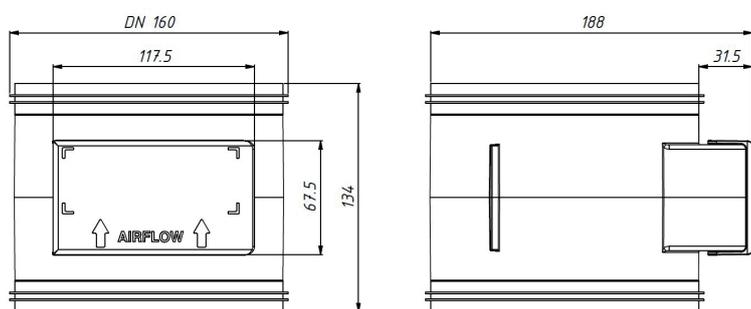
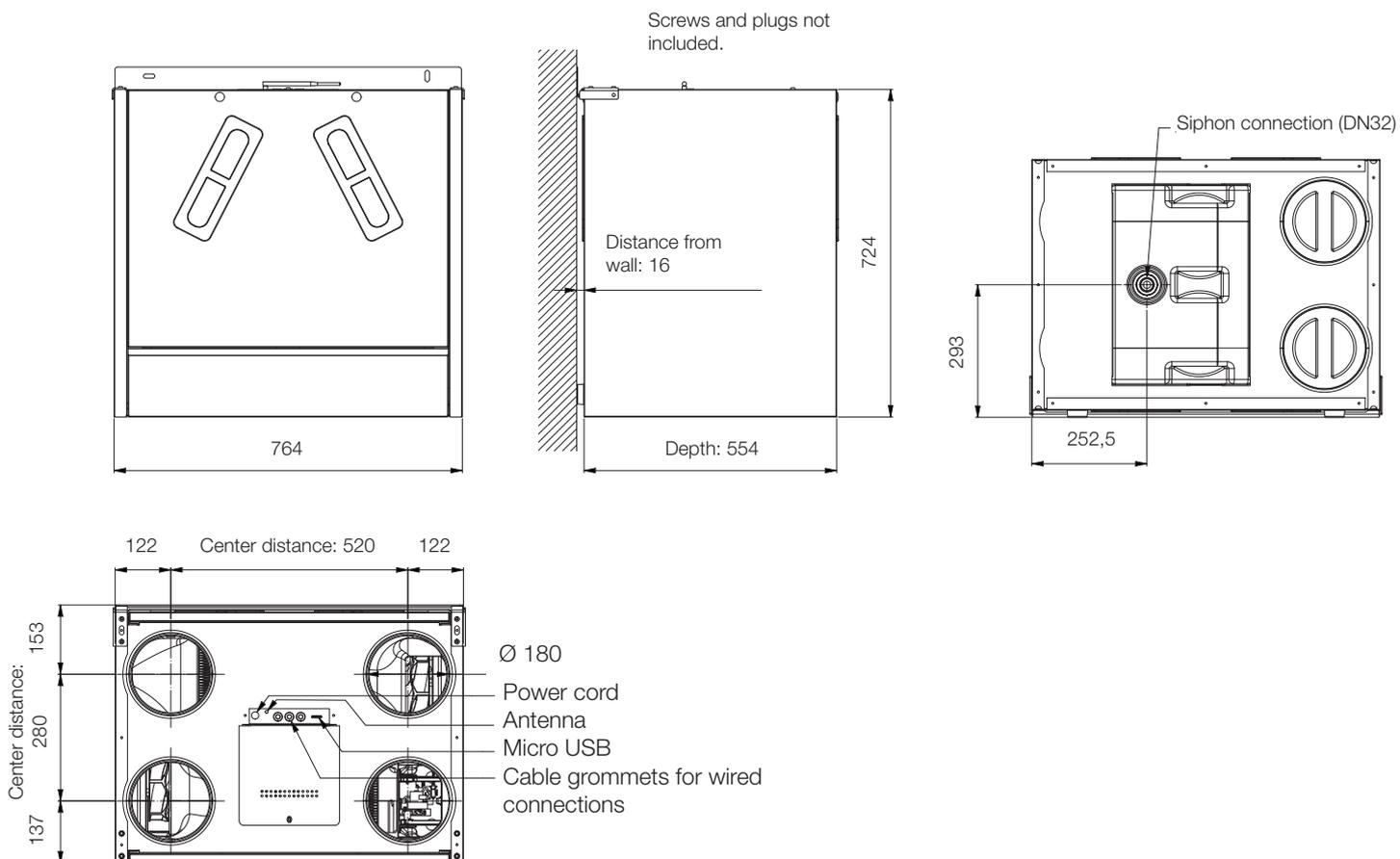
	275 Boost	275 Boost H	350 Boost	350 Boost H	425 Boost	425 Boost H	500 Boost	500 Boost H
Dimensions (H x W x D)	724 x 764 x 560 mm							
Dimensions incl. packaging (H x W x D)	940 x 790 x 600 mm							
Weight	43.6 kg	41.7 kg	43.6 kg	41.7 kg	44.0 kg	42.1 kg	44.2 kg	42.3 kg
Weight incl. packaging	52.9 kg	51.0 kg	52.9 kg	51.0 kg	53.3 kg	51.4 kg	53.3 kg	51.4 kg
Power supply voltage	230 V AC							
Maximum airflow at 150 Pa	275 m ³ /h		350 m ³ /h		425 m ³ /h		500 m ³ /h	
Maximum pressure drop at Q _{max}	175 Pa		175 Pa		200 Pa		200 Pa	
Thermal efficiency according to EN13141-7	91.4%	82.2%	90.0%	78.4%	88.8%	75.8%	87.7%	74.6%
Moisture recovery efficiency according to EN13141-7	-	70.3%	-	63.4%	-	60.2%	-	57.1%
Thermal efficiency according to EN308, Annex G	83% at 273 m ³ /h	-	84% at 350 m ³ /h	-	82% at 425 m ³ /h	-	79% at 494 m ³ /h	-
	84% at 250 m ³ /h	79% at 195 m ³ /h	86% at 295 m ³ /h	76% at 249 m ³ /h	83% at 400 m ³ /h	74% at 298 m ³ /h	79% at 452 m ³ /h	71% at 352 m ³ /h
	85% at 223 m ³ /h	-	87% at 250 m ³ /h	-	84% at 370 m ³ /h	-	81% at 394 m ³ /h	-
Power consumption	2 x 59 W		2 x 83 W		2 x 115 W		2 x 169 W	
Energy label	A		A		A		A	
Energy label with 2 sensors (CO ₂ or RH (humidity))	A+		A+		A+		A	
Sound level, unit emission (70% Q _{max} @50Pa)	46.0 dB(A)		47.5 dB(A)		49.0 dB(A)		50.5 dB(A)	
Sound level, supply duct (70% Q _{max} @50Pa)	54.0 dB(A)		57.5 dB(A)		63.0 dB(A)		67.5 dB(A)	
Sound level, extract duct (70% Q _{max} @50Pa)	43.0 dB(A)		46.0 dB(A)		50.0 dB(A)		50.0 dB(A)	

	Connections	DN 160 male
	Material	Polypropylene (PP)
	Supply voltage	5V
	Maximum power consumption	5W
	RF frequency	868.3 Mhz
	Maximum relative humidity	0 - 90 % (non-condensing)
	Ambient temperature range (min/max)	0 - 40 °C
	Electrical safety class	Class III

	Connections	Wall-mounted flush installation
	Material	Polycarbonate (PC) and plastic (ABS)
	Measuring range	400 - 2000 ppm
	Measurement tolerance	40 ppm + 2% of measured value at 20 °C
	Supply voltage	230V AC
	Maximum power consumption	1,2W
	RF frequency	868.3 Mhz
	Maximum relative humidity	0 - 90 % (non-condensing)
	Ambient temperature range (min/max)	0 - 40 °C
	Electrical safety class	Class II
	IP rating	IP21



Dimensional drawings





275/350/425/500 Boost (H)

Compact ventilation unit **up to 500 m³/h***, designed for residential applications. The compact ventilation unit offers wall-mounted installation with both top and bottom connections, and reversible airflow configuration. The unit is standardly equipped with a 100% bypass (free-heating and free-cooling), a wireless RF 3-position switch, and an integrated humidity sensor for automatic airflow control. Control can also be integrated into home automation systems via a wired Modbus protocol.

Optionally, the system can be expanded with CO₂ ZoneControl, as well as other control options such as RF CO₂ or RF RH switches for demand-controlled ventilation, an RF motion detector, or an RF control display.

The H version is equipped with an enthalpy heat exchanger.

*The specified airflow rates depend on, and are subject to, the total pressure loss of the ventilation system.

Price group VPG12 – Ventilation A

275/350/425/500 Boost HRV unit				
	275 Boost	11VE00078	1 pc.	€ 2.545,00
	350 Boost	11VE00079	1 pc.	€ 2.632,00
	425 Boost	11VE00080	1 pc.	€ 2.964,00
	500 Boost	11VE00081	1 pc.	€ 3.079,00

275/350/425/500 Boost H HRV unit (with enthalpy heat exchanger)				
	275 Boost H	11VE00082	1 pc.	€ 2.989,00
	350 Boost H	11VE00083	1 pc.	€ 3.076,00
	425 Boost H	11VE00084	1 pc.	€ 3.408,00
	500 Boost H	11VE00085	1 pc.	€ 3.523,00



CO₂ ZoneControl

CO₂ ZoneControl is an innovative solution for demand-controlled and zoned ventilation. The system is based on the measured CO₂ levels in specific zones of the home.

Price group VPG12B – Ventilation B

CO ₂ ZoneControl				
	CO ₂ ZoneControl	11VE44290	1 pc.	€ 579,00

RF CO₂ flush-mounted switch

With the RF CO₂ switch, you can choose between a fixed airflow rate or a variable airflow rate, adjusted to your needs.

Price group VPG12B – Ventilation B

RF CO ₂ flush-mounted switch				
	RF CO ₂ flush-mounted switch	11VE20032	1 pc.	€ 195,00

