## Compact, demand-controlled ventilation unit with heat recovery

Flux+ Wall Compact is part of the Renson Flux Family: a range of demand-controlled ventilation units with heath recovery. Flux Family is known as the most silent units with high thermal efficiency.

This new **compact** unit guarantees good air quality in an energy-friendly way, combined with **installation flexibility in small spaces**.

This unit is available in two flow rates:
- 275 m³/h at 200 Pa
- 350 m³/h at 200 Pa

## Main features

- The most **compact** and **flexible** unit for flow rates up to 350 m³/hr – only 55 cm high
- Flexible mounting options thanks to **top & side connections**
- Demand-driven by **$CO_2$, Humidity & VOC** sensors inside the device: standard **reduction factor 0.93** in Belgium
- Counterflow heat exchanger up to **91% heat recovery**
- Light weight of only 19 kg so it can be easily, quickly and ergonomically installed by a single person
- **Save time**: a step-by-step workflow in the **installer app** for **fast and robust** commissioning of the ventilation system
- Easy to adjust a **left to right version** via a **software** setting in the installation app
- **Serviceability:** each component is **disassembled in less than 5 minutes**
- **Smart filter warning:** measure the current contamination level of the filter & provide feedback to the resident
- **Hybrid frost protection** with (optional) external electrical element

## Dimensions

Below dimensions are the effective outer dimensions (closing caps are internal to the unit).

| Front view | Side view | Top view |
|---|---|---|



Side view note: * Including wall mounting
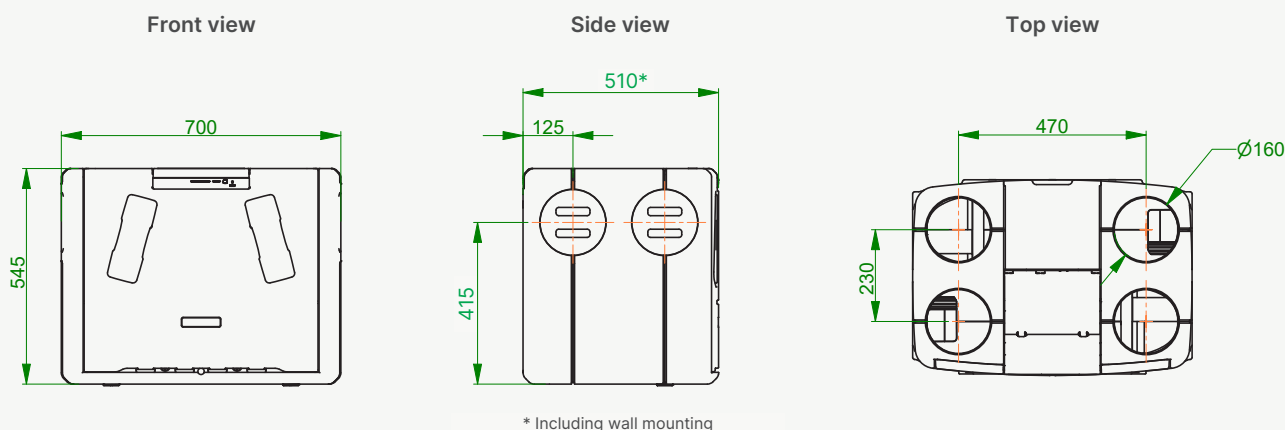
**THIS IS A PRELIMINARY DATA SHEET & SUBJECT TO CHANGE WITHOUT PRIOR NOTICE**

# Technical specifications

| | Flux+ Wall Compact 275 | Flux+ Wall Compact 350 |
|---|---|---|
| **Maximal flow rate** | 275 m³/h (at 200 Pa) | 350 m³/h (at 200 Pa) |
| **Thermal efficiency** | **Belgium** - conform to Annex G of Annex V of the Energy Decree (conform to EN13141-7) | |
| | 90% at 175 m³/h<br>89% at 200 m³/h<br>89% at 225 m³/h<br>88% at 250 m³/h<br>87% at 275 m³/h | 89% at 225 m³/h<br>88% at 250 m³/h<br>87% at 275 m³/h<br>86% at 300 m³/h<br>86% at 325 m³/h<br>85% at 350 m³/h |
| | **Netherlands** - conform to Section 11 of NTA 8800 in the context of the Building Regulations (conform to EN13141-7) | |
| | 89% at 192,5 m³/h | 88% at 245 m³/h |
| **Maximal power consumption** | 2 × 57 W | 2 × 79 W |
| **Sound level**<br>(acc. to EcoDesign directive) | 47 dB | 50 dB |
| **Energy class**<br>(acc. to Directive 2010/30/EU) | A+ ▸ | A+ ▸ |
| **Power connection** | 230 Vac -15%/+10% (50 Hz, 60 Hz)<br>Cable 2 m included (EU-plug) | |
| **Dimensions** | 550 × 700 × 510 mm (H x W x D) | |
| **Weight** | 19 kg | |
| **Installation** | Wall mount<br>Left or right setup change only with software setting<br>Floor mountingh by means of an accessory | |
| **Connections** | Ø160 mm connections on unit with 4x supplied flanges with seal<br>Top and side connection for each connection point<br>Condensate connection D32 (1 ¼" external) | |
| **Bypass** | Yes, complete (100%) | |
| **Breeze functionality** | Automatic passive cooling by temporarily running at nominal ventilation in case of a cooling need | |
| **Frost protection** | Default by unbalance<br>Optional external accessory of 1,2kW allowing for hybrid frost protection mode | |
| **Automatic flow control (constant flow)** | Yes, ± 5% accuracy | |
| **Fan** | Quiet & energy-efficient EC motors with forward curved impeller | |
| **Maximum fan working pressure** | Up to 300 Pa<br>– Recommended working pressure at design flow: ≤ 200 Pa<br>– Guide value of a very good working pressure at design flow rate (cfr TV n° 258): 100 Pa to 150 Pa | |
| **Display of system pressure** | Via installer app & Renson installer web portal | |
| **External input/output** | – 1x Ethernet connection<br>– 2x USB connection<br>– 3x digital inputs & outputs for ventilation level control and general feedback<br>– Switch for error & filter status available | |

**THIS IS A PRELIMINARY DATA SHEET & SUBJECT TO CHANGE WITHOUT PRIOR NOTICE**

## Demand control

| | |
|---|---|
| **Air quality detection** | **CO₂, humidity and VOC** via electronic sensors centrally in the unit. The sensors measure the indoor air quality in the exhaust air flow 24h/day. |
| **Modes of operation** | – Demand controlled (standard) via internal sensors and optionally via additional room sensors<br>– Fixed week schedule that can be programmed via the Ventilation user app<br>– Manual control: via Ventilation user app, via 3 position switch, via room sensors |

## Other features

| | |
|---|---|
| **Installer and user app** | Free download on Play Store (Android) or App store (Apple) |
| **Control** | – Via the user app<br>– Optional by adding a 3-position switch (Renson type XVK3)<br>– 4-position switch, included in the wireless room sensors |
| **Unit status & filter message** | – Via LED bar on device<br>– Via user app and user portal (user)<br>– Via installer app and installer portal (installer) |
| **Software updates** | Automatically when the device is connected to the internet or locally via the Renson installer app |
| **Remote service** | Available via installer web portal when device is connected to the internet |
| **Integration into smart home & home automation** | Home automation: switching module (3 contacts) or integration via Local API |
| **Fire protection** (internal) | √ |

## Filters & accessories

| | |
|---|---|
| **Filters** | – Device comes standard with 2x Classic Protection ISO Coarse 65% (G4)<br>– Optionally available:<br>　• Kit Urban Protection: 1x ePM1 55% (F7) + 1x ISO Coarse 65% (G4)<br>　• Kit Premium Protection: 1x ePM1 80% (F9) + 1x ISO Coarse 65% (G4)<br>　• Kit Carbon Protection: 1x Carbon +ISO Coarse 65% (G4) + 1x ISO Coarse 65% (G4) |
| **Day/night zoning** | The 2-zone kit allows you to create a day-night zoning by means of 2 valves. This option drives demand controlled ventilation per zone and automatically detects the active zones. In this way, you use less energy and have a quieter system while maintaining optimal air quality. |
| **Active humidification module** | The external humidification module ensures that the moisture level in your home always remains at the right level. By using a ventilation system with heat recovery, there is a chance that in some situations the indoor air will become too dry. Parquet or other wooden objects remain protected without the user having to pay attention to this situation. |
| **External electrical frost protection** | Flux devices have standard frost protection via imbalance. With an electical element, hybrid frost protection can be achieved in cold climates. This frost protection system is based on 1.2 kW electrical resistance, that is modulated based on the temperature sensors in the device. |

**THIS IS A PRELIMINARY DATA SHEET & SUBJECT TO CHANGE WITHOUT PRIOR NOTICE**