



# MECHANICAL VENTILATION

EXPORT TRAINING – FLUX WALL FOCUS

March 6th 2025

## WHY FLUX WALL?

- Could not cover the required air volumes (~total ventilation supplier)
- Technical issues of Endura Delta > killer for reputation
- New generation of units required > **Flux**



# Flux Wall

## “INTERNAL” briefing

- **Performant** unit: energy – thermal efficiency – acoustics
- Easy – quick – robust **installation**
- Made for **service**
- Enforce **PLUS** segment

# FLUX WALL

Designed for **650m<sup>3</sup>/hr**  
(@200Pa)

Launching a **new product standard** for the **residential market**

- **30% lower power consumption**  
**Save up to EUR200 / year** on your electricity bill
- Maximize your **comfort & health:**
  - By default **demand controlled**
  - The most **silent** (focus pulsion side)
- **Easy, quick & robust installation** & commissioning
- Designed for **easy maintenance & serviceability**

**CENTRAL  
CO<sub>2</sub>  
SENSOR**



**Only 32kg!**

# PRODUCT INNOVATIONS & FEATURES

## Mounting of unit made easy

- Only 32kg
- Easy handling of the unit by providing several carry points
- Easy adjustable mounting position with front side levelling

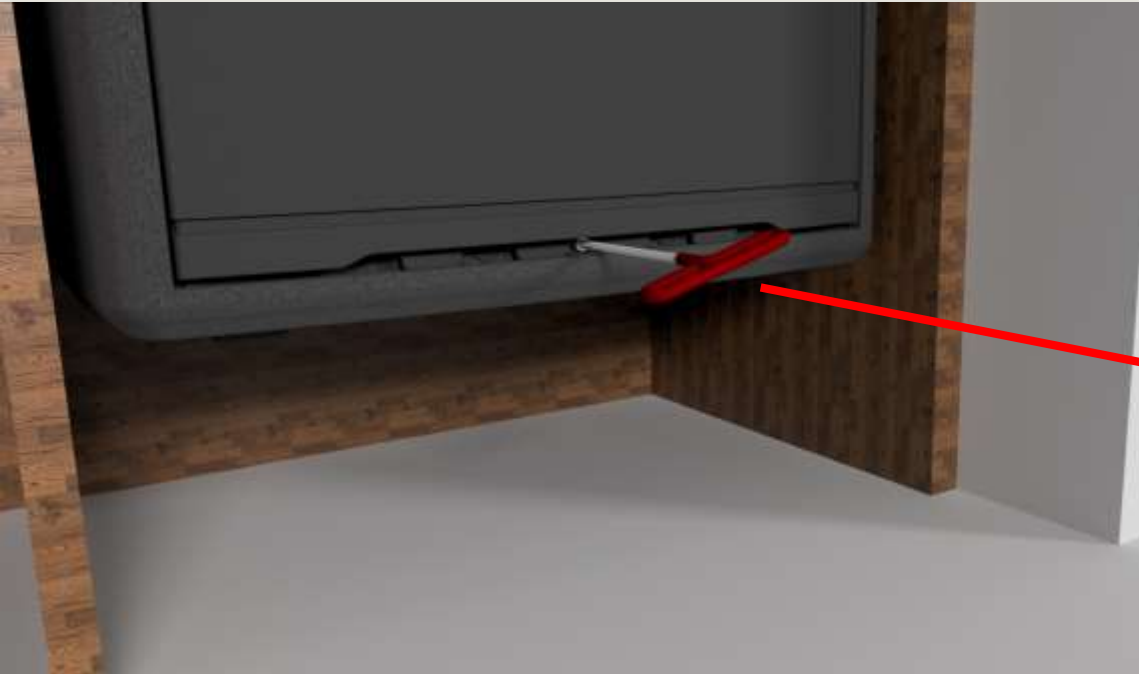


# Step 1: mount & level bracket on wall

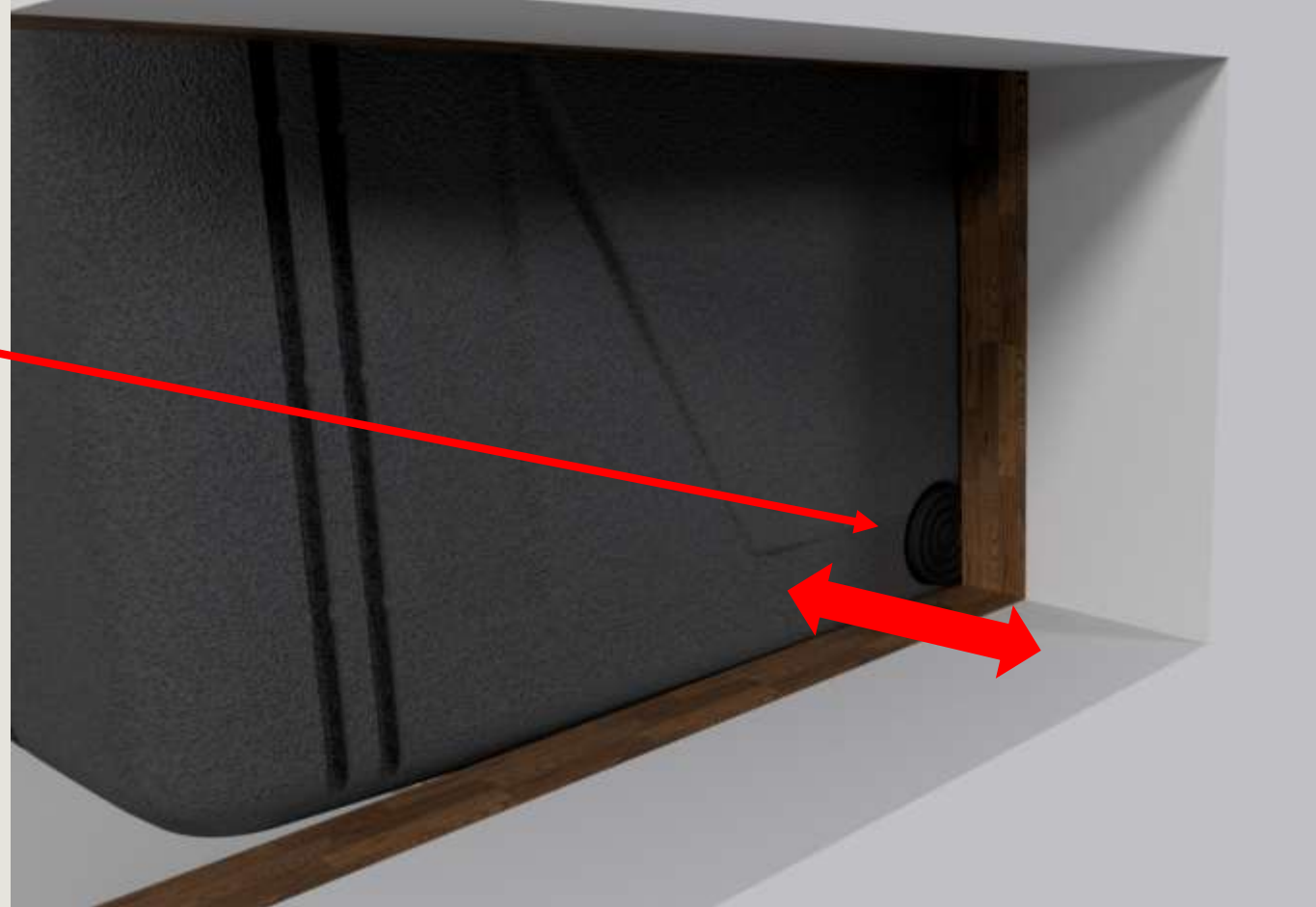


Including damper

## Step 2: mount unit on bracket & level



**Unique feature** to provide perfect levelling of the unit in an easy & accessible way



## Internal plenum providing flexibility in installation options

### Standard included:

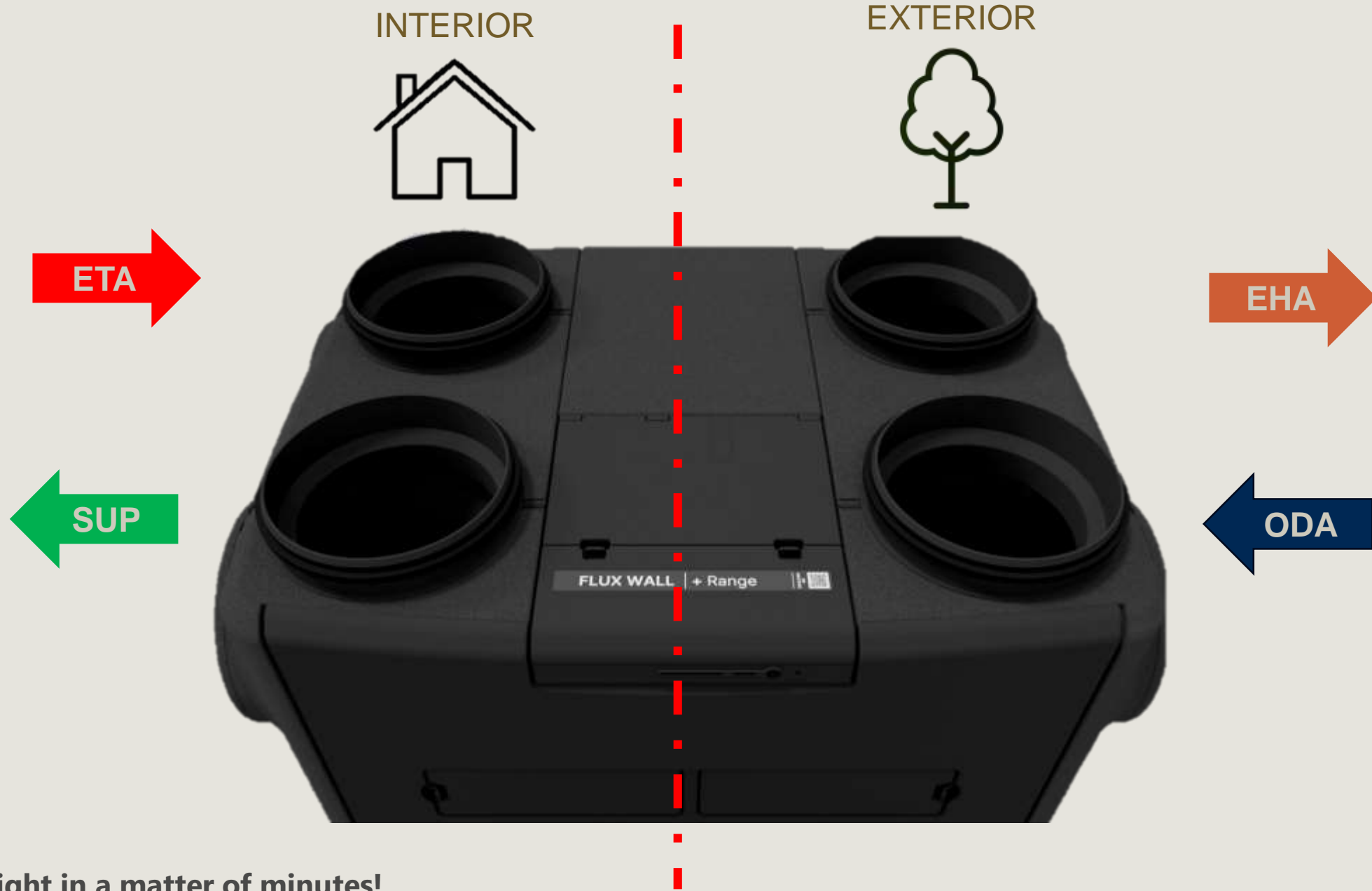
- 4x D200 connection with seal for perfect air tightness
- 4x cap

Connections on the unit are D180 (internal dimension)

**Internal note:** T2/B2 not in scope of Flux Wall



# LEFT CONFIGURATION (std)



From left to right in a matter of minutes!



**Frame for floor mounting as accessory**



Combined use of **top & side connection** allows for a **compact/neat connection** with **lower pressure drop**



Side connections allow near the ceiling installation  
=  
more net space > opportunity

## 4 type of filters to choose from We offer the highest level of protection

- **CLASSIC** (G4 – std. factory) **Standard protection of unit** – filters larger particles & large pollen
- **URBAN** (F7) Higher degree of protection than G4, protects against **all type of pollen**
- **PREMIUM** (F9) Highest degree of protection, keeps 80% of **fine dust** particles out
- **CARBON** (Carbon) Basic protection & **odour neutralization** of supplied air

## Filter replacement made easy & fool-proof!

- Easy replacement of filters
- End user cannot wrongly insert the filter into the device (polluted side to inside of unit)
- Visual aid for end user to place F7/G4 combinations correctly



## NEW: Smart filter warning for FLUX+

**Why:** improper filter maintenance is number 1 root cause of issues in the field

**Renson wants to protect the unit & unburden the end-user**

**Benefits of properly maintained filters:**

**Lower noise level**

**Less energy consumption**

Less wear and tear on the components = **longer lifetime**

Filter maintenance is typically time-based: inaccurate

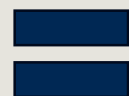
**How:** the smart filter feature measures the actual pressure drop across the filters. When a threshold is met, a warning on the device & user app is given to clean or replace the filter. We unburden the end-user & guarantee an optimal ventilation system at all time.



Smart filter warning feature  
measures pressure drop  
across filters

A new generation of fans by EBM-PAPST

**Lower energy consumption + more silent**



**30%** lower power consumption

or

**Save EUR200 / year on electricity bill**

Flux Wall = a **revolution** in residential ventilation!

**Electrical frost protection as accessory**

Within a couple of minutes on-site installed by the installer!

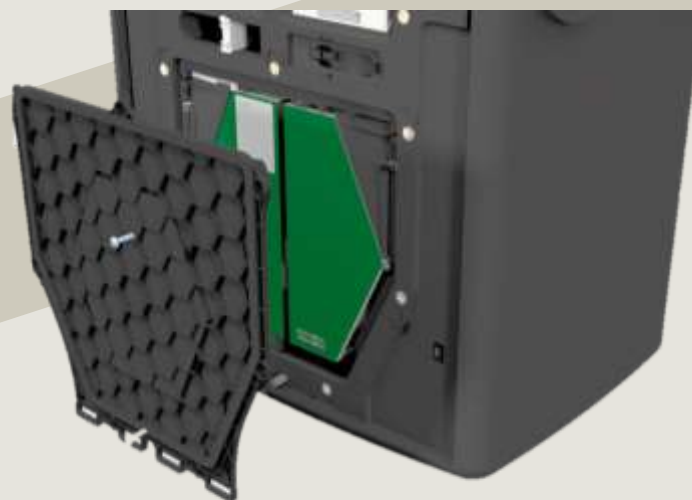
**Module of 1.6kW – allows continuous operation till -10C**

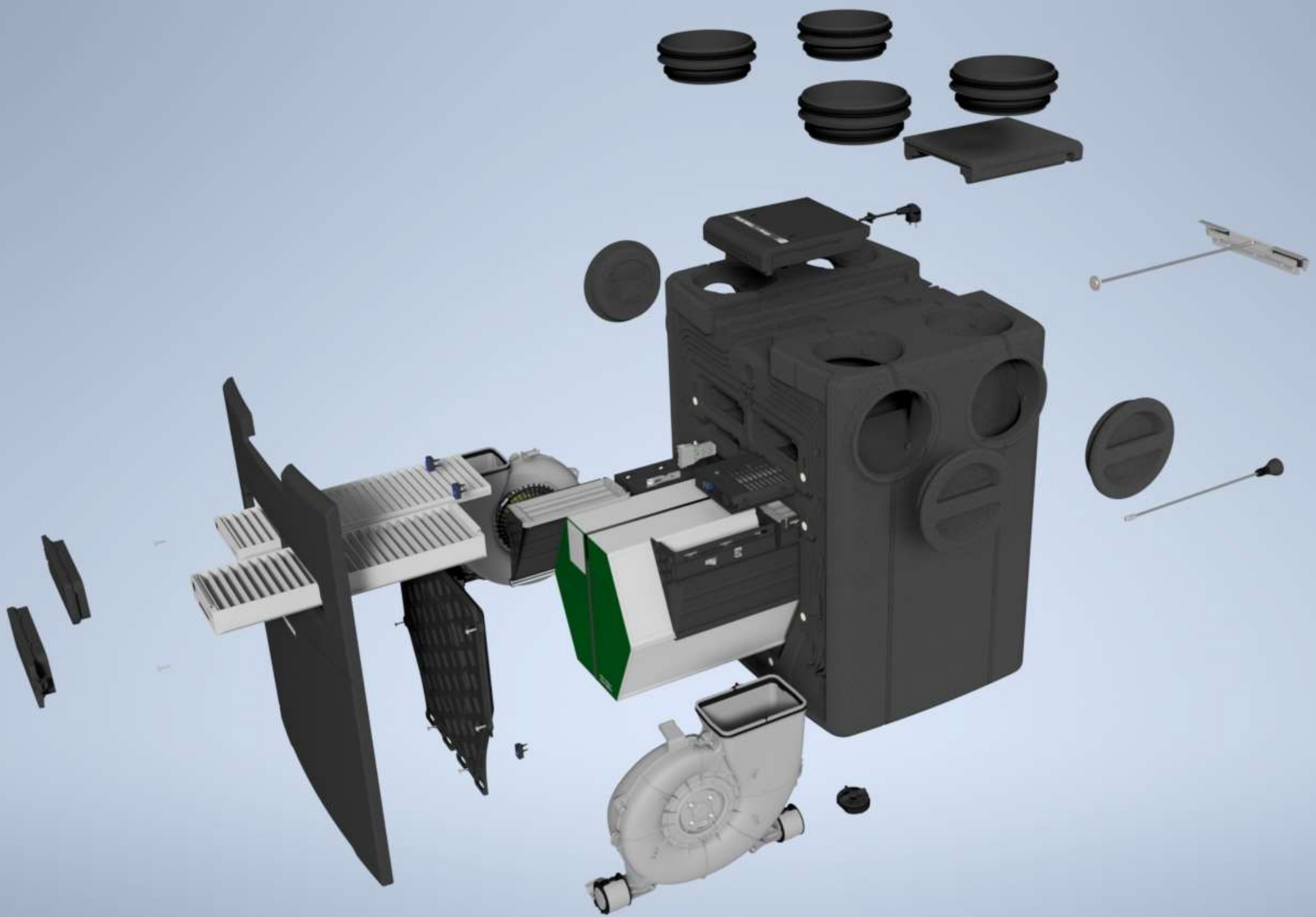
Note: In NL, electrical frost protection has an impact on the calculation of the heat losses at building level.



## Made for serviceability

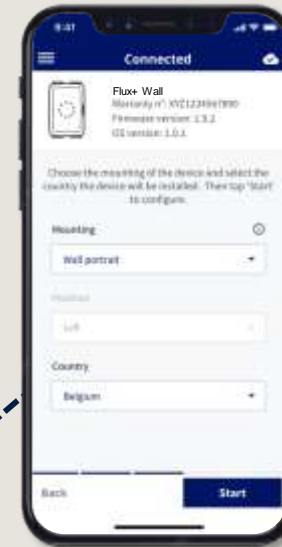
- **Only 9x** (identical) **screws** for the installer
- **Modular elements** bypass, pre-heater, fans, etc.
- **Unique & patented fan** replacement system



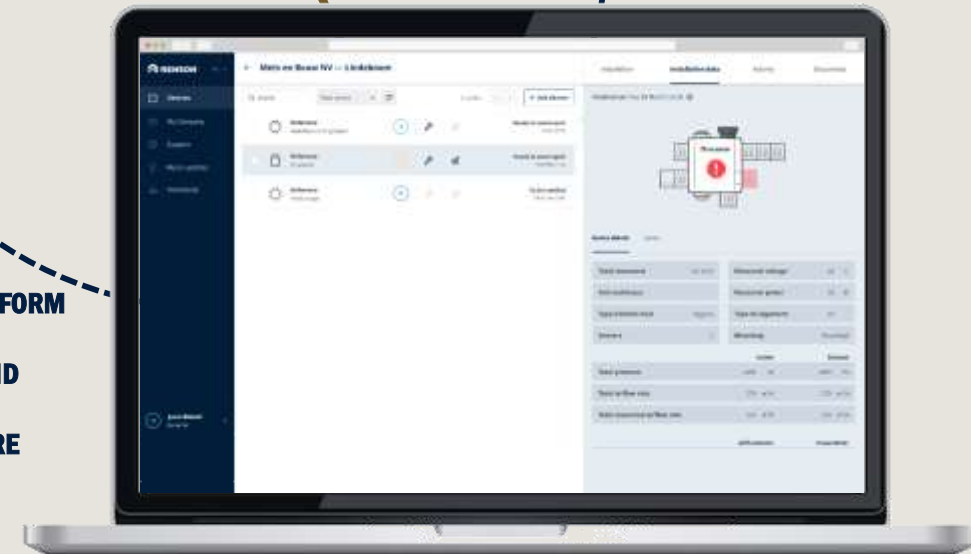




**Quickest commissioning = Save time**



**RENSON INSTALLER APP WITH A UNIQUE ROOM-BASED CALIBRATION FLOW**  
**ADDING: FLUX+ & AER00 Integration**



**RENSON INSTALLER PLATFORM FOR PREPARATION, INSTALLATIONREPORT AND FOLLOW-UP REMOTE SERVICE FEATURE**

Up to 650m<sup>3</sup>/hr

**650m<sup>3</sup>/hr @200Pa**  
Max Fan power **2x138W**  
Efficiency **81%** at nominal flow rate

**DIMENSIONS & MOUNTING**

D580 x W790 x H870mm - Weight 32kg  
Mounting: wall & frame for floor (as accessory)  
Quick-fix for easy levelling  
Connection diameter: D180/D200 – including 4x flange D200 with seal

### COMFORT & HEALTH

Standard demand controlled CO<sub>2</sub>, RH & VOC (Freduc 0,93)

Constant flow

Full bypass & breeze mode

Smart filter warning

HRV and optionally ERV

Standard 2x G4/ISO Coarse filter – optional filter sets F7, F9 & Active carbon

### COMMISSIONING

Quick left(default)/right change

Dedicated installer app with unique balancing algorithm

Flux+ & Aeroo coupling for even faster balancing

Renson installer portal enabled for remote service

### CONTROLS

On unit led bar & push buttons

User app

Accessory: 3-position switch (XVK3)

Accessory: Sense as roomsensor



**Flux Wall** contains elements for a **differentiated story**

# FLUX WALL USP'S

# End-consumer

## With Renson Flux Wall, you save EUR200, every year again!

- By using a new generation of fans and an aerodynamically optimized design
- **30% reduction in power consumption** compared to competition
- Obtain the best **EPB score** in your project

## Always a healthy indoor climate

- **Demand controlled** by sensors centrally in the unit: CO2/Humidity/Odour (by default - F<sub>reduc</sub> = 0.93 in BE)
- **Fully autonomous** operation
- Only ventilate when necessary and in the right amount = **energy savings**

## Silent ventilation system

- **Lowest noise** radiation in the pulsion side = the quietest bedroom (where it matters most)
- Flux in combination with AEROO: **extremely quiet!**

# End-consumer

## We help maintain your system

- **Smart filter warning:** clean and replace your filters at the right moment
- Your warranty for a **silent** and **energy efficient** ventilation system
- **Protects your system** and guarantees a **long service life**

## Personalize the system to your needs

- **Connected device 'by default'** (= without extra/expensive accessories)
- **User app:** air quality consultation + operation + warnings
- Connecting to **home automation systems** via local API
  
- **Set of accessories**
  - Wide range of filters
  - SmartZone for Flux: day/nigh zoning
  - Active humidification module

# Installer

## Fast & easy installation

### EASY

- Only 32kg, without heat exchanger 25kg (can be carried by 1 person)
- Flexible:
  - Can be mounted **left/right**
  - **Top & side connections** - more compact & elegant ducting near the unit
- Unit dimensioned at 200Pa: always **achieve the required flow rate**
- Quick & convenient way to mount the device **level** horizontal & vertical
- **Fully recyclable packaging** (cardboard only)

### FAST & ROBUST

- Fastest start-up: **total installation time 50% faster** than competitors
- Unique balancing algorithm in combination with **constant flow**
- **Step by step** guidance via the installer app, no chance of errors
- **Digital tools** (Portal & Installer app) **support you** through the installation process from start to finish
- **Save even more time with Flux+ installer app** in combination with **Aeroo** for valve position indication, **no preparation required!**

# Installer

## Every part changed within 5 minutes, even the fans!

- **Designed for super-fast service & maintenance**
- **Only 9 screws & the entire device is completely dismountable**
- **Toolless mechanism to remove the fans**

## Future-proof installation

- **Connected device 'by default'**
- **No expensive extra accessories needed to connect device to the web**
- **Save time by remotely supporting your customer via the remote service option**
- **Automatic updates**

# Sustainability

Minimizing CO2 footprint

Packaging = **fully recyclable** (only carton)

**Plastic injection:** from virgin to using **fully recycled plastics**  
(in our own injection facilities)

**Lightweight by design (32kg!)**  
Try to minimize use of materials  
= direct impact on EPD performance

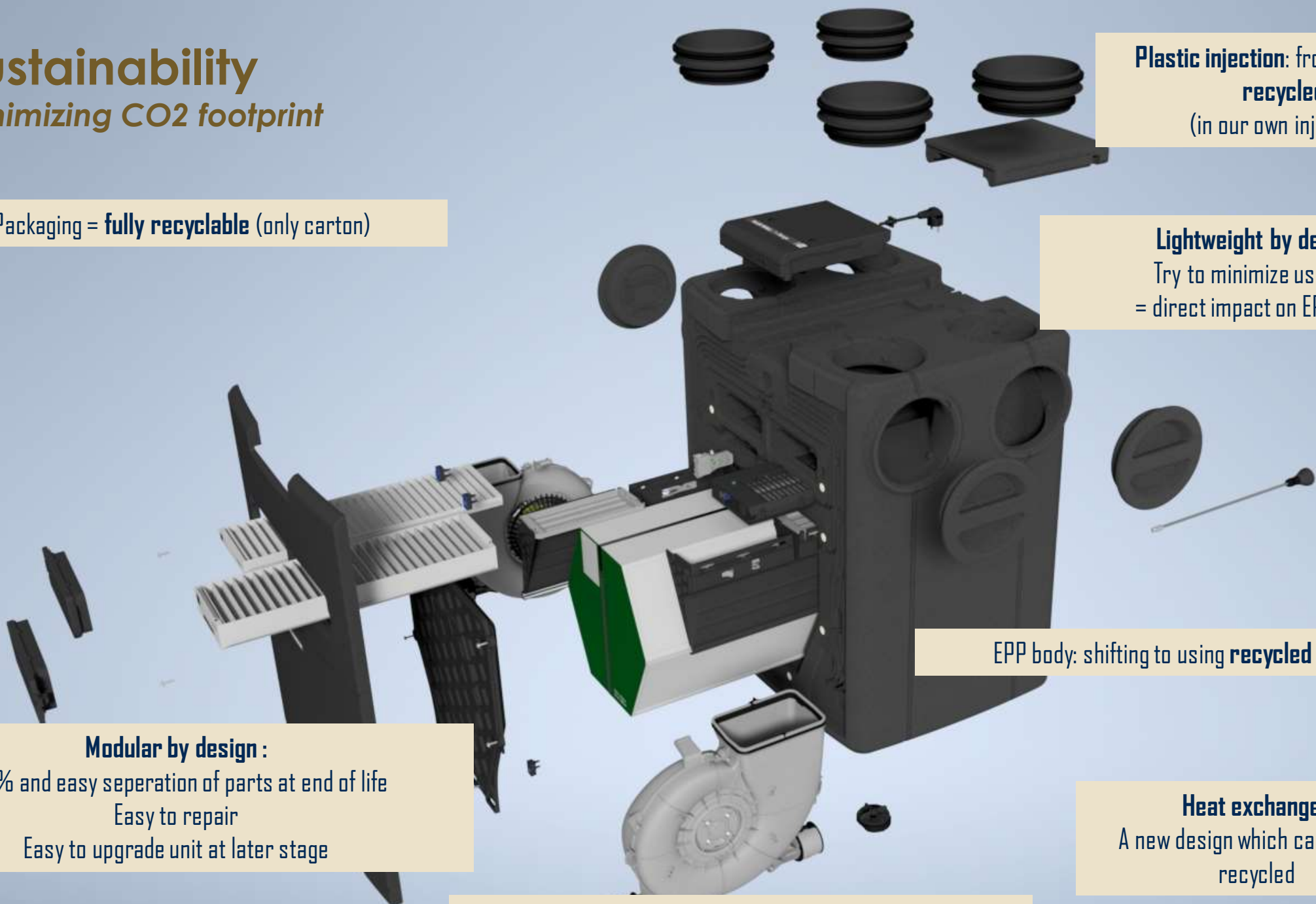
EPP body: shifting to using **recycled EPP**

## Modular by design :

100% and easy separation of parts at end of life  
Easy to repair  
Easy to upgrade unit at later stage

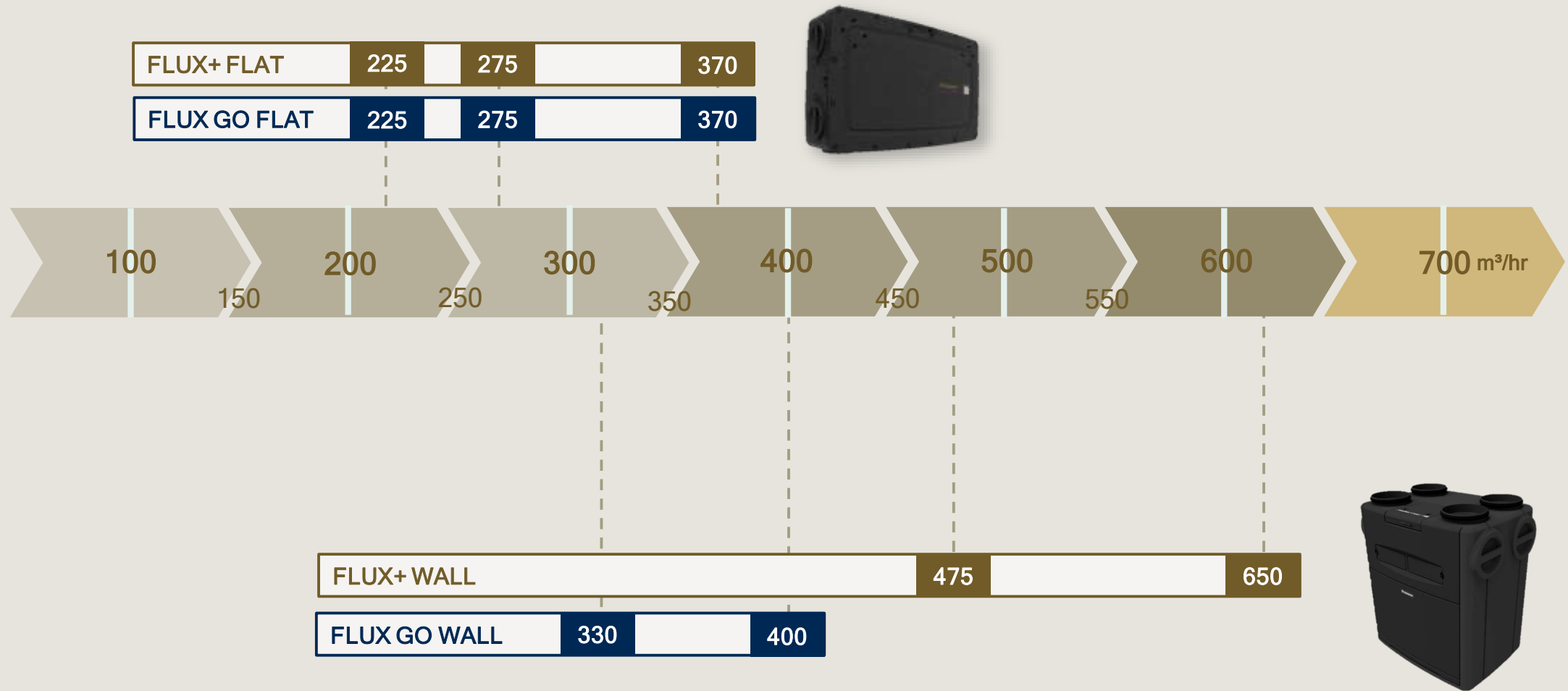
**Heat exchanger**  
A new design which can be **fully recycled**

In operation: **30% lower energy consumption**



# PORTFOLIO

# FLUX RANGE



## WHAT

## WHO

SmartDetect (central CO2/RH/VOC)  
**Smart Filter Detection**  
 Accessory: **SmartZone, Humidifier**  
 End-user: **Comfort & Health**

Residential  
 Single family housing  
**Focus comfort**

Step-by-step room based commissioning flow  
**Flux & Aeroo integration**  
 Renson Installer portal with **remote service feature**  
 Installer: **Quick/easy/robust installation**

Central RH sensor  
 End-user: **Basic protection**

Apartments / Social / Project build  
**Focus price/feature**

Basic commissioning flow  
 Installer: **market conform**

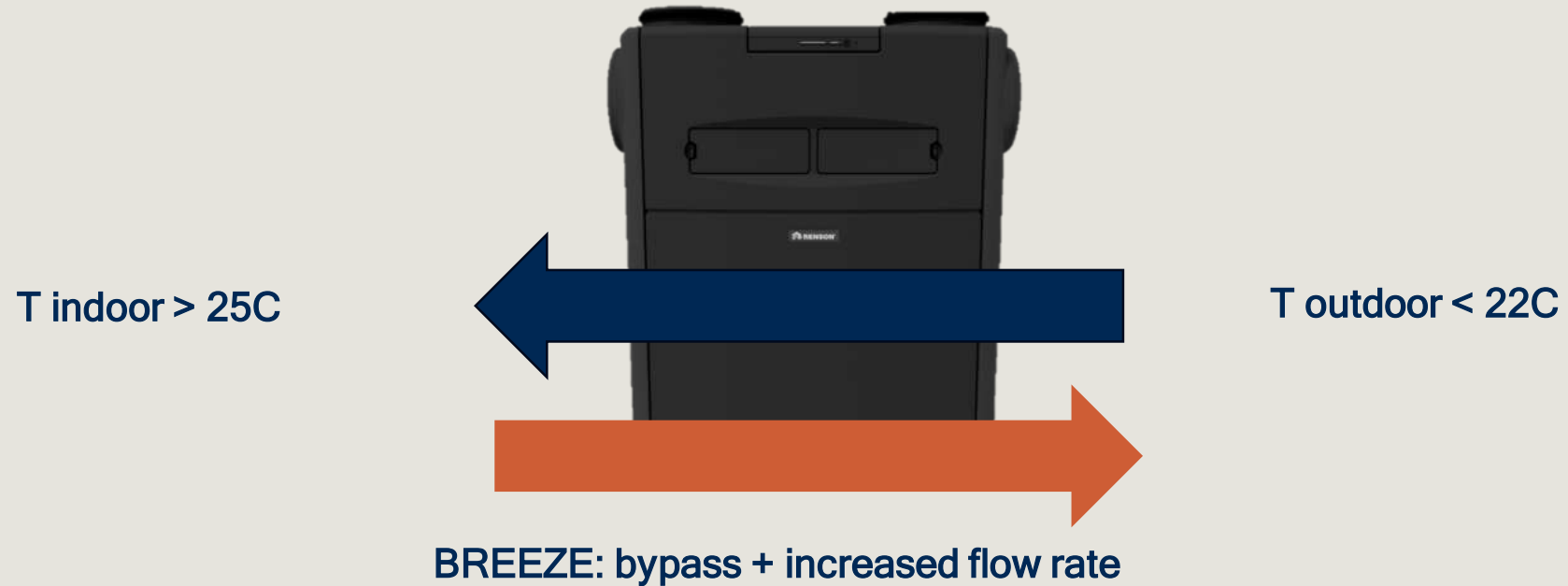
PLUS

GO

Price 15%

	FLUX GO	FLUX+
<b>MECHANICAL</b>	IDENTICAL FAN/HX/Filter	
<b>Central demand control</b>	RH	RH - CO2 – VOC
<b>Control &amp; comfort</b>	Constant flow	Constant flow Smartfilter
	Full bypass	Full bypass
	Frost protection (unbalance)	Frost protection (unbalance)
		Breeze
<b>Installation mechanical</b>	Wall	Wall
	Optional mounting frame	Optional mounting frame
	Left / right configuration - software change	Left / right configuration - software + sensor switch
<b>Digital</b>	Simple commissioning app	Unique installer guiding commissioning app (save time!) Commissioning integration with Aeroo - even faster Full integration with Renson Installer Portal
	All installation data remains local (no Renson Portal interface)	API (Cloud) integration - 3rd party integration
	NO API integration	Automatic updates when connected to the cloud
	User app with detailed insights & unit control	User app with detailed insights & unit control
<b>Accessories / delighters</b>	Room sensors	Room sensors
	Control unit	Control unit
		SmartZone Active humidification

# Breeze function



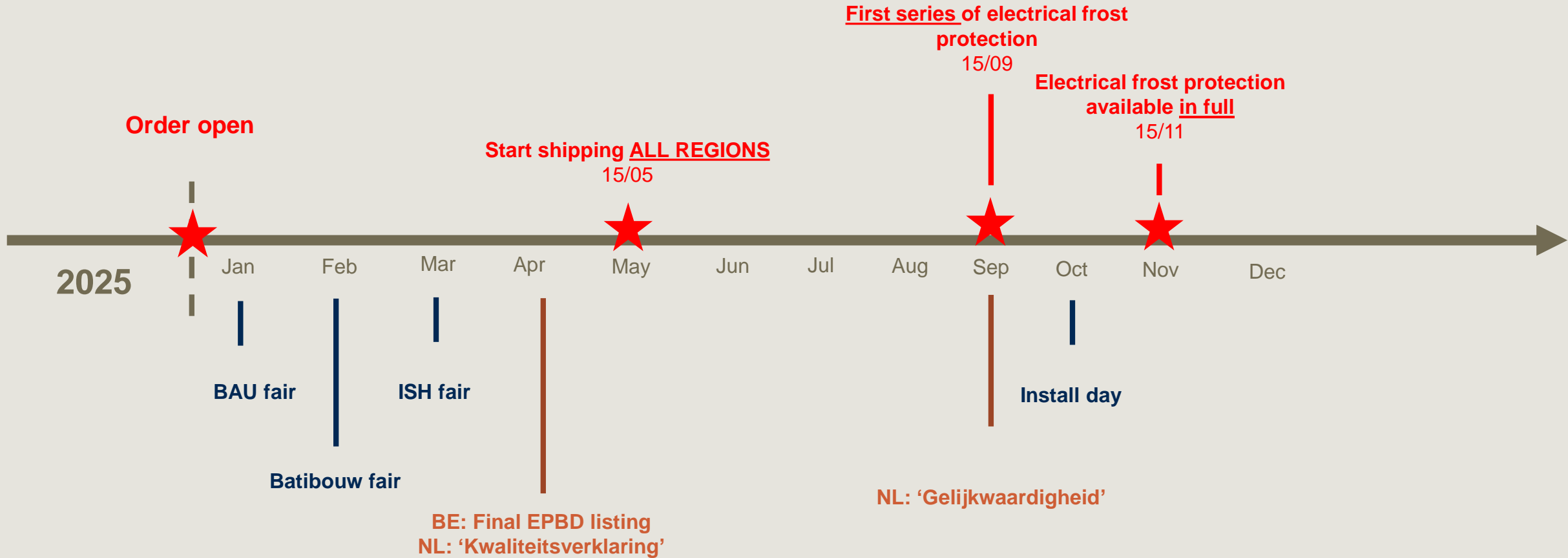
## Use case

a hot period during summer and a cold night

Opportunity for **passive cooling** with a high COP (>6)



# FLUX WALL TIMINGS



Sales KITS on



New price list (active from 15/03/2025)

We are here to support: let's **work** together!



**Benny Loones**

Healthbox 3.0



**Karen De Potter**

Healthbox Go  
Cbase  
Cube  
Oxygreen Light  
Waves



**Jasper Allert**

Endura Delta  
Flux



**Martijn Vandewalle**

Air distribution  
Healthconnector  
Sense



**Pieterjan Platteeuw**



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