



**Fresh-r**

Smart indoor air  
care

**Fresh-r does  
what's needed.  
Just like me.**



Demand-driven balance ventilation with heat recovery.

Decentralised, on or in a wall or a window, usually without pipes.

Ideal for entire apartments or living rooms or kitchens of single-family homes.

Energy-efficient and future-proof: suitable for living without gas and zero-energy homes.

Eliminates moisture and mould.

Easy installation and maintenance.



World champion in  
ventilation

# Compact ventilation technology Can be installed in each apartment

## Energy-saving and a healthy indoor climate

Fresh-r saves energy by working only when necessary and by using a copper-wound heat exchanger to extract heat from stale, outgoing air to warm up fresh incoming air. And it just keeps working - even in freezing temperatures. This decreases heat demand considerably. It solves odour, moisture and mould problems. Sensors measure the temperature and humidity constantly. And based on dew point calculations, Fresh-r ensures the perfect level of interior humidity. This prevents condensation and the formation of moulds. Pre-heating the air avoids issues of draught and cold. The heat exchanger and ultra-fine filter keep out pollen and particles emitted by traffic, industry and open fires.

## Ventilation for each zone

Fresh-r ventilates both when it's needed and where it's needed. Fresh-r can combine the heat recovery unit with a demand-controlled MV box and room-to-room fans. Spaces are then linked and ventilated with the most appropriate technology. The zone's function - living, sleeping, cooking, shower/toilet - determines which type of ventilation is most appropriate.

## Installation and applications

Fresh-r is a decentralised ventilation system that is installed in an optimum location in the home. Installation costs are low: little to no piping is required. Problems with central heating ducts are now history. Fresh-r can be installed on the wall, requiring only two 160mm holes. In renovation applications, the front of the cavity wall is cut out and the entire unit is installed inside the cavity. In prefab walls or frames, the unit is built in beforehand.

Problem residences - with moisture, mould, draughts, odours, fine particulates. e.g. - can be resolved within a (half) day without a mess and without having to re-locate the residents. In the event of major maintenance or renovation, Fresh-r can bump up an entire building's energy-efficiency label when combined with draught measures or simple insulation.

Fresh-r complies with Passief Huis and BENG standards and qualifies for the (Dutch) Construction Act with its equivalence statement.

## Feedback and maintenance

Fresh-r is equipped with multiple sensors and is Wifi-connected. This provides the resident with insight into the air quality in his/her home. The party performing maintenance is automatically notified if the copper heat exchanger needs cleaning (a rinse under the tap or in the dishwasher is sufficient) or if the particulate filter needs replacement.



Fresh-r In-the-Wall



Fresh-r On-the-Wall



Fresh-r - the window that breathes



Fresh-r shows what it does



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www.fresh-r.eu

**CO<sub>2</sub> sensor** meet of de binnenlucht gezond is.

**H<sub>2</sub>O sensor** meet luchtvochtigheid om schimmelvorming tegen te gaan.

**Luchtkanalen** geleiden de lucht van buiten naar binnen en vice versa door de warmtewisselaar zonder dat de luchtstromen elkaar raken.

**Thermometers** meten de temperaturen buiten, binnen en van de inkomende lucht.

**Fijnstoffilter** haalt luchtvervuiling weg

**Wifi-antenne** geeft de gemeten data door voor online inzicht in de werking van het systeem

**Ventilatoren** verversen de binnenlucht vraaggesruurd, met een maximum capaciteit van 120 m<sup>3</sup> per uur en 80 m<sup>3</sup> per uur zonder geluid.

**Warmtewisselaar** van fijn koperdraad dat warmte van uitgaande muffe lucht teruggeeft aan inkomende frisse lucht.

**Houten frame** om Fresh-r gemakkelijk te monteren tijdens installatie.

