



Fresh-r

Smart indoor
air care

Vraaggestuurde ventilatie
met warmteterugwinning



Fresh-r range and uses

Fresh-R offers solutions for demand-driven decentralized balanced ventilation with heat recovery (HR). Each Fresh-R has CO₂, humidity and temperature sensors. The ventilation volume is determined by the quality of the indoor climate and there will never be too much ventilation. The system is always in balance; the amount of air removed and supplied are the same. The system can be placed on an outside wall and two tubes through the wall ensure extraction of stale or humid air and the supply of fresh air. No further channels are needed. The unique heat exchanger ensures efficient heat or coolness transfer in winter respectively summer. It is very thin, takes little space and can be installed (partially) in the wall.

The core of our solution is the Fresh-R Compac. This is available in three types:

1. *The Fresh-R Compac On-the-Wall*

This can easily be secured with 4 screws on the wall and just two holes of 130 mm have to be drilled through the wall. The height and width of this Fresh-R are approximately 70x28 cm and it is 20 cm deep.

2. *The Fresh-R Compac Semi-in-the-Wall*

This can be put about 14 cm deep in a cavity wall or in an insulated timber frame construction. The height and width of this Fresh-R are approximately 70x28 cm and it sticks about 6 cm from the wall. If desired, a casing frame can be supplied for simple assembly.

3. *The Fresh-R Compac in-the-Wall*

This can be fully (20 cm) installed in a cavity wall or any other wall construction that is deep enough. The height and width of this Fresh-R are approximately 70x28 cm and it is completely flush in the wall. If desired, a casing frame can be supplied for simple assembly.

All three types have the same technology and functionality. These are described in the specifications available on our website.

An *Everywhere* variant is available for each of these types. This variant has the option of connecting a channel so that stale and damp air is extracted from another room, for example a bathroom.

We also have the *Fresh-R Forward*. This is a fan that is placed in the wall between two rooms. The Forward ventilates stale air from a room without ventilation to a room with a Fresh-r. For example from a TV room to the living room or from a bedroom to a bathroom. This also has CO₂, humidity and temperature sensors that measure how much ventilation is needed.

The *Forward* ensures, just like the *Everywhere* variants, that multiple spaces in a home can be ventilated. Fresh air will flow back from the Fresh-R to that other room via a 1-2 cm slit under the door.

Fresh-r Compacs optionally have an ultrafine dust filter of the EPM1-70 or F8 level. This removes ultrafine dust coming from traffic, industry, agriculture, etc. from the incoming air flow. Useful if you live in a busy road, for example.

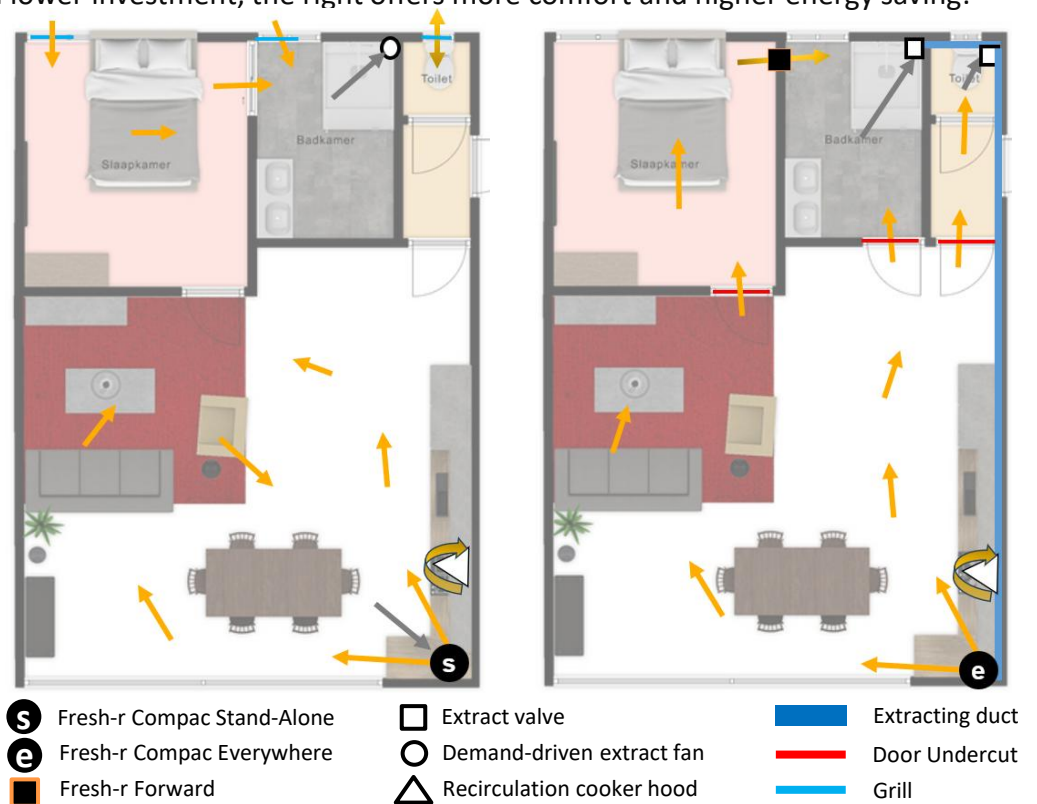
The Fresh-R is supplied as a standard with mounting materials, the tubes and insulation-sleeves through the wall, a paper drilling jig to outline the required cavity, holes and mounting points and instructions for use. If desired, we can supply grilles in various shapes and colors to cover the in- and outlet outside the building.

It is possible to connect the Fresh-R to your WiFi router, in order to see the data from the sensors via our web application www.fresh-r.me. You can read the quality of the indoor climate, the performance of the Fresh-R and the amount of energy saved. We can also automatically load software updates and, if desired, adjust settings remotely. We extend our warranty period to 3 years when the Fresh-R is connected.

Fresh-r products are often used in:

- Homes and apartments; retrofits, extensions, sustainability renovations**
 Decentralized ventilation with heat recovery is much easier and cheaper to install in existing homes where no ventilation channels have yet been installed. The combination with insulation and air-tightness improvement provides considerable energy savings. Home-owners often also opt for a hybrid zone solution where the living room/kitchen and possibly a study or TV room is ventilated with a Fresh-r Compac. The rest of the house is then ventilated with demand-driven ventilation from the bathroom and grilles in the bedroom windows for inlet of fresh air.
- Newly constructed homes of up to 60 m²**
 A Fresh-R Everywhere in-the-wall extracts from the bathroom/toilet and a Forward takes care of ventilation of the bedroom(s). In that way Fresh-r ventilate the entire studios, senior or care homes and the like. Simple, cheap demand-driven and energy efficient ventilation without loss of space.
- Offices; retrofits, enhancement of sustainability, multi-tenant buildings**
 Fresh-R offers a good solution without the need for major adjustments to (installations in) the entire building. Fire safety issues disappear when floors and compartments do not need to be drilled through. Energy savings in two season; heat recovery in winters and cool recovery in summers.

Below you see two ways in which the Fresh-R can be applied in a simple home of just over 50 m². On the left, the living room/kitchen is ventilated with the Fresh-R with WTW and the sleeping and bathroom and toilet are ventilated via a CO₂ and moisture-controlled extract fan with fresh air entering through bedroom window vents. On the right, the entire house is ventilated in balance with heat recovery by using an Everywhere variant and a Forward. The left version is easier and requires a lower investment, the right offers more comfort and higher energy saving.



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www.fresh-r.eu