



For an indoor atmosphere that makes you feel good

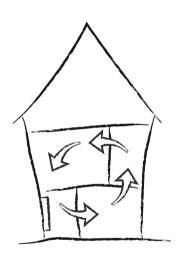


Fresh air makes you feel good. And so does saving energy.

You want to let fresh air in and keep the chill out.

That's exactly what the fresh-r® does.





Benefits

Continuous monitoring and regulation of temperature and CO₂ for comfort and well-being

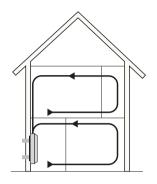
Helps making central heating unnecessary, using less energy than a LED-light

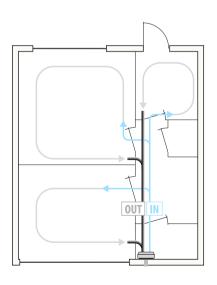
No ducts, so no build up of bacteria and fungi

Low maintenance, no filter replacement needed

Patented heat exchanger that refreshes 120 m³ per hour with temperature conservation of 83% and leakage of less than 3%

Officially certified by the German Passive House Institute





Fresh air everywhere

With the fresh-r everywhere® you can ventilate multiple rooms with just one fresh-r® by creating air circulation between the rooms. This air circulation system is the preferred Passive House cascade system.

A duct is connected to the fresh-r®, to extract air from the most central areas so air is drawn in from adjacent areas, creating a ventilation cascade and refreshing air everywhere.

You do not breathe through ducts that can become dirty, because there are no supply ducts, only extraction ducts.

The fresh-r everywhere® can be mounted on the in-the-wall unit with the extract ducts placed in-the-wall and on-the-wall with unit and extract ducts on the wall.

fresh-r® is proud to be the only decentral Ventilation System that is passive house certified. Passive House is a building standard that is truly energy efficient, comfortable, affordable and ecological at the same time.

The vast energy savings in Passive Houses are achieved by using especially energy efficient building components and a quality ventilation system: There is absolutely **no cutting back on comfort**; instead the level of comfort is considerably increased.





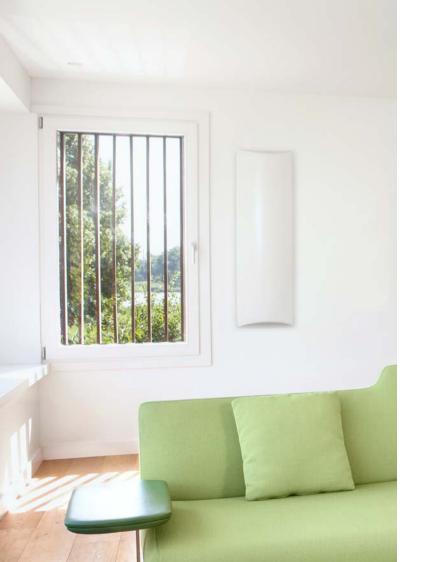
How does the fresh-r® work

fresh-r® improves in-home atmosphere with smart ventilation to make homes more healthy, while saving energy.

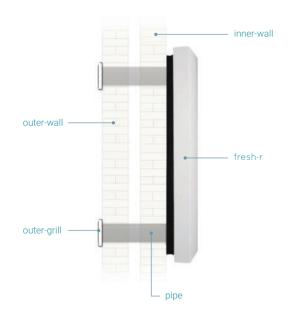
Air quality is constantly measured (in ppm CO₂)

fresh-r® takes in fresh air from outside (flow F), while expelling old air (flow O), with a capacity of 120 m³ per hour.

To save energy the incoming fresh air is prewarmed by the outgoing air through the patented heat exchanger, without the mixing the airflows. Temperature conservation is above 83%.

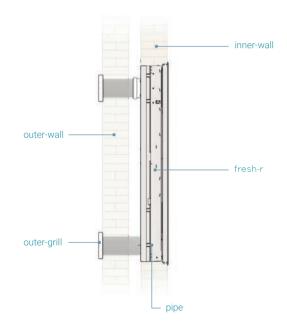


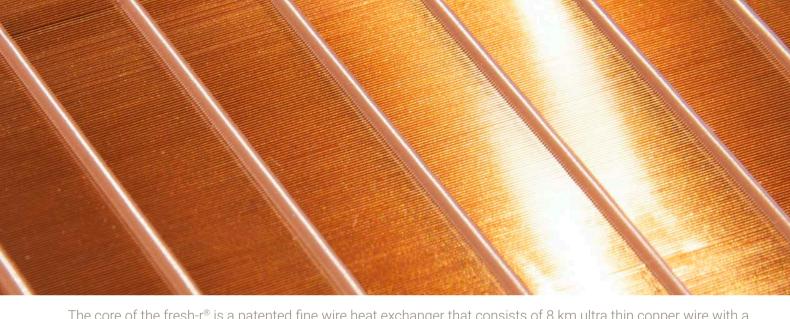
On-the-wall unit





In-the-wall unit





The core of the fresh-r® is a patented fine wire heat exchanger that consists of 8 km ultra thin copper wire with a total weight of less then 0.5 kg. With a heat transfer coefficient of 400 W/mK copper transfers heat 1000 times better than polyethylene of which traditional heat exchangers are made.

Combined with intelligent controls it has a higher overall efficiency, which results in more comfortable air coming in and a shorter payback time of the fresh-r[®].

Specifications and Product information







Specifications

Flow range 0-120m³/hr

Working range * -20°C to 50°C

Max. power consumption 45 Watt

Avg. power consumption 6 watt

Noise 30 dB(A) at 65 m³/hr

Efficiency 87% true eff.

Control automatic (on basis of CO₂ ppm)

Certification CE / SAP / Passive House / EPC

* The world's first HRV to work at sub-zero temperatures without adding energy.

Tested at BRE (UK) and Cauberg-Huygen (NL).





Product information

Product includes

All hardware for plug an play installation

Installation manuals, drilling template and mounting kit

Complete unit, with on-the-wall or in-the-wall front cover

Heat exchanger and smart controles (RH, Temp, ${\rm CO_2}$)

2 x outside grilles

2 x Ø125 mm x 37 cm PVC pipe to outside

Extract duct connection available (fresh-r® everywhere® compatible)

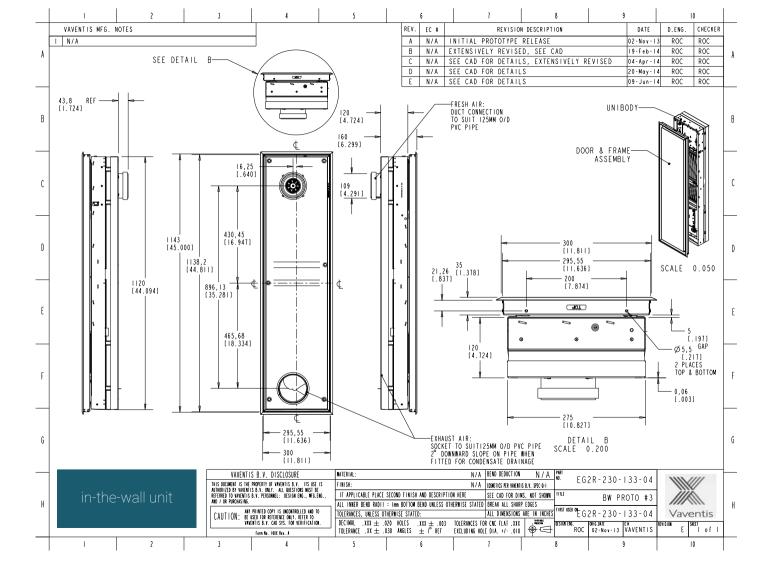
Packed for delivery within the EU

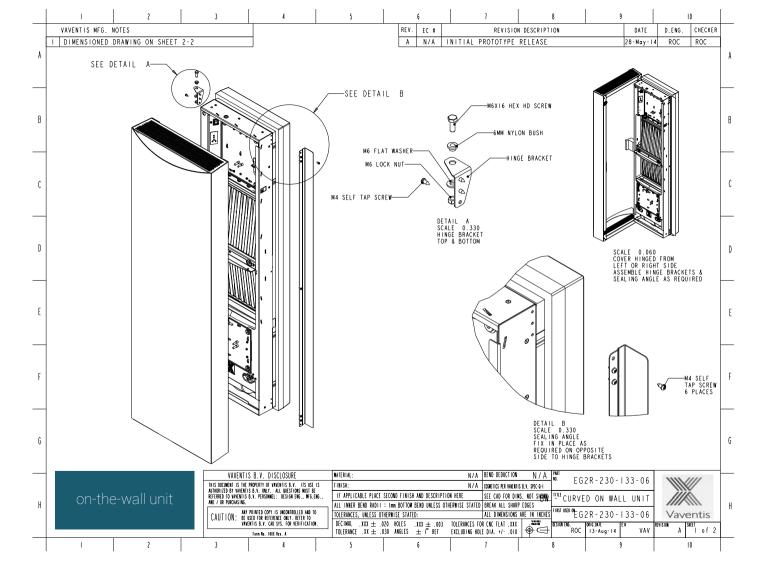
Lead time 8 weeks (Order-to-on-site delivery)

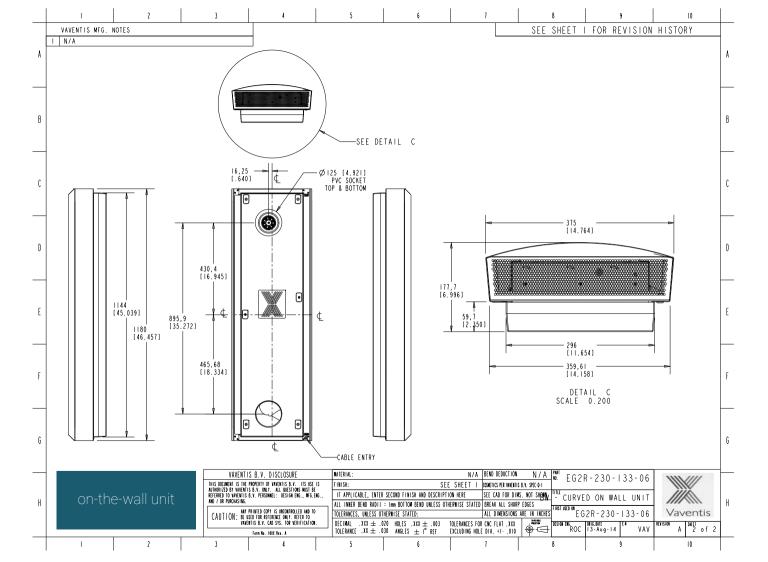
Please contact sales@fresh-r.eu for a quotation.

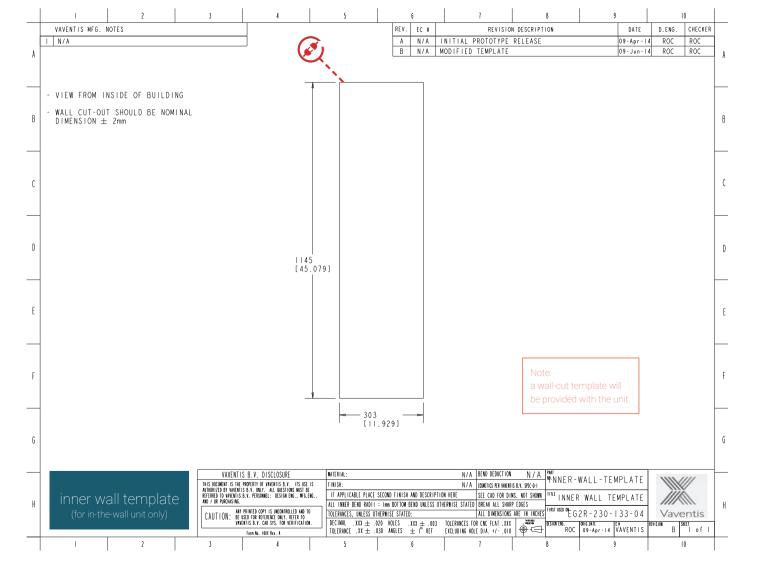
Technical and Installation detail

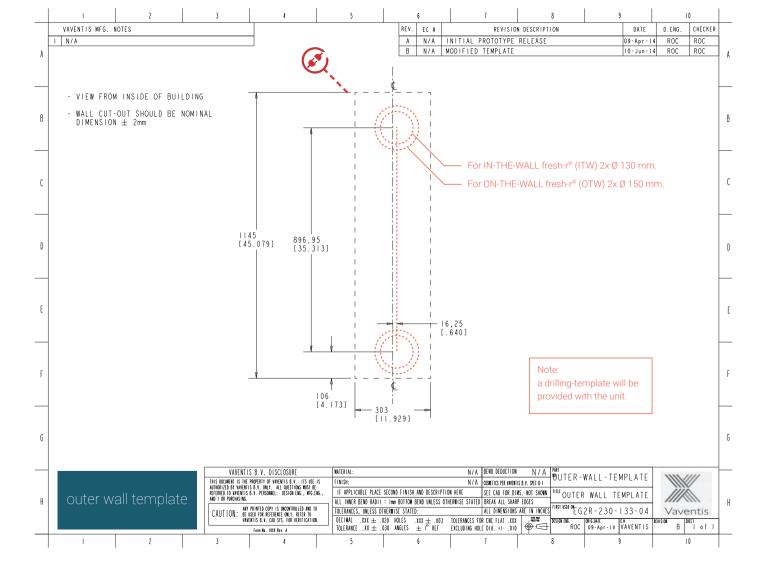














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