

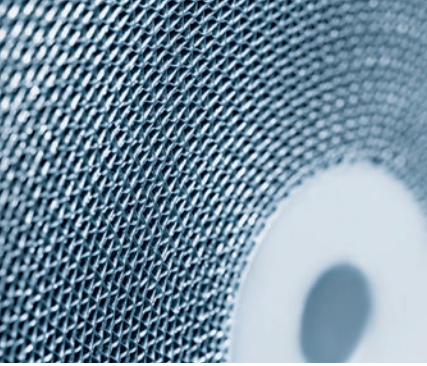


Comfort ventilation
HomeVent®

Hoval

Responsibility for energy and environment

**Optimum air quality in residential and work spaces.
Clean, energy-saving, easy to use.**



*Front page:
Close-up of the sorption heat exchanger in the HomeVent®.
It transfers the heat as well as the humidity from the used air
being extracted to the fresh supply air.*

Fresh air and a healthy indoor climate at home and at work.

We want the air that we breathe to be as fresh and clean as it is in nature. Today's environmental pollution means that this is harder and harder to come by in urban areas, and even in the countryside, the air is not always healthy for people who suffer from allergies. So how can we ensure an optimum exchange of air between the inside and outside?

State-of-the-art Hoval technology focuses on comfort ventilation. This enables the air quality and the moisture content, which makes a significant contribution to the pleasant indoor climate, to be controlled in a fully automated manner as required. A sophisticated solution for new buildings and renovations which also saves on heating costs.

"Not all fresh air is the same. Our model is fresh Alpine air. With the HomeVent® comfort ventilation unit, Hoval is demonstrating the decades of experience it has in heat and humidity recovery."

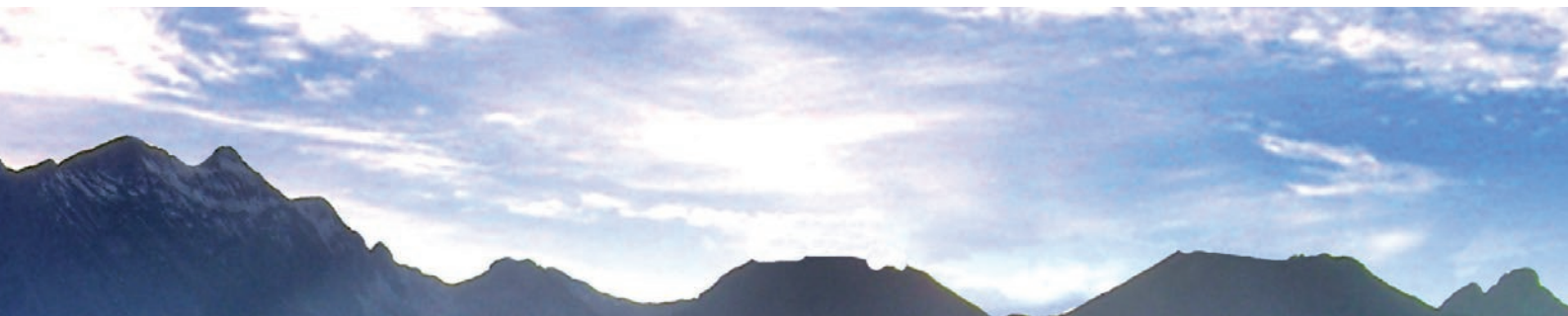
Patrik Woerz, Director of Comfort Ventilation



HomeVent® ventilation improves air quality – with every breath you take.

HomeVent® comfort ventilation draws in the used air inconspicuously and quietly from the rooms and supplies fresh air, which has also been filtered to remove pollen, to the building. The heat from the indoor air does not get lost as it does when you open the windows, but is instead transmitted to the fresh, cold air through a rotary heat exchanger. The patented functional principle of the HomeVent® comfort ventilation system significantly improves the energy balance of every building, as it saves considerably more energy than it consumes for operation.

A further advantage of the HomeVent® comfort ventilation system is that it enables the air to retain the humidity needed to ensure an ideal indoor climate. Fresh air therefore doesn't just enter the building at the required temperature, it is also supplied with the optimum level of humidity.



HomeVent®.

Advantages at a glance.

Easy to use



Healthy indoor climate

- **Well tempered fresh air with the optimum level of humidity**
due to heat and humidity recovery
- **Protects your health**
due to cleaned, pollen-free and dust-free indoor air
- **Pleasant temperatures even in summer**
due to the CoolVent option with cold recovery

Economical



Economical operation

- **Heat recovery efficiency of up to 130%**
due to patented enthalpy recovery unit
- **Low operating costs**
due to needs-oriented, continuously variable control
- **Low investment costs**
due to elimination of air prewarming and condensate drainage

Ecological



Saves resources

- **Saves valuable heating energy**
due to heat recovery
- **Positive energy balance**
as energy savings are around 10 times higher than energy consumption

Sophisticated

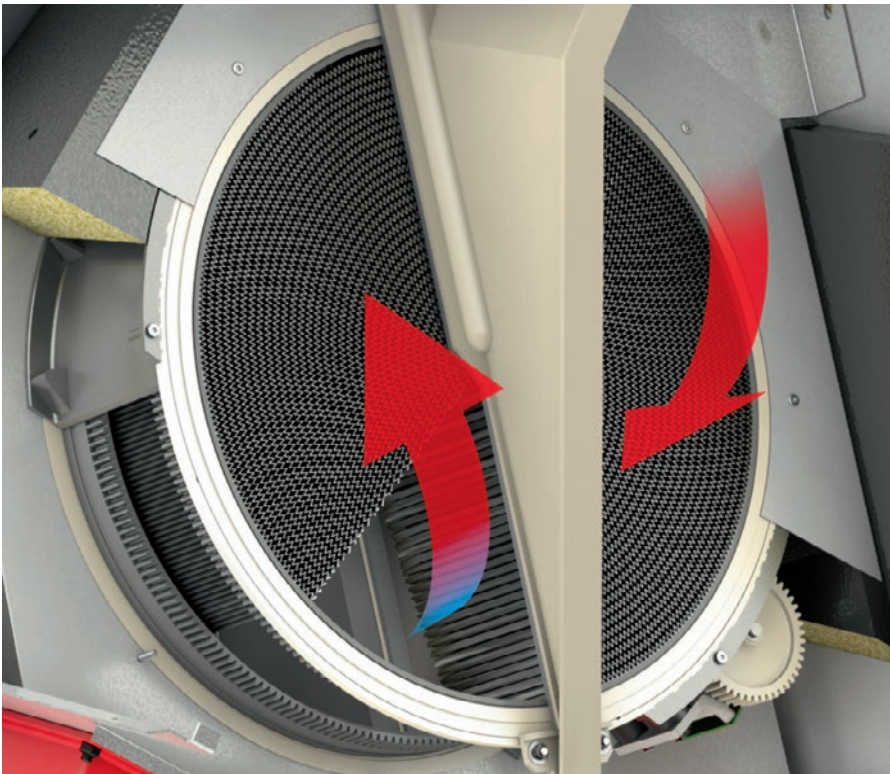


Easy to install

- **Flexible installation**
of the device in any position
- **Simple device upkeep**
due to flexible maintenance and service access
- **Simple commissioning**
due to plug & play device

HomeVent®

Fresh air around the clock with the comfort ventilation system.



The patented enthalpy recovery unit in the HomeVent® ensures that the heat and humidity from the extract air are transferred to the supply air in a controlled manner.



The patented enthalpy recovery unit controls heat and humidity in the home

The HomeVent® regains heat from the extract air. But it also recovers humidity – something that few conventional systems are capable of doing.

The main contributor to this is the rotating enthalpy recovery unit. With its specially-developed sorption coating, the enthalpy recovery unit draws in heat energy and water vapour from the extract air. When needed, these are transferred to the supply air and returned to the interior in the required quantity.



Heat recovery efficiency of up to 130%

The heat and humidity recovery technology makes the HomeVent® exceptionally economical.

By way of comparison, good, conventional systems reach a heat recovery efficiency of up to around 90%. Whereas HomeVent® achieves up to 130% with its patented operating concept. The result is a pleasant indoor climate.



Healthy fresh-air comfort

Building thermal insulation has become increasingly effective over the years. On the one hand, this saves energy. But on the other hand, good insulation prevents the exchange of air that once took place through the permeable building envelope and windows of older buildings.

The HomeVent® comfort ventilation system handles this air exchange in a controlled and fully automated manner. At the same time, humidity recovery provides the right amount of moisture in the air. This avoids dry room air – often a problem with conventional systems.



Needs-oriented consumption

The HomeVent® system significantly improves the energy balance in your building. The system saves considerably more energy than it consumes for operation.

The air quantity is continuously variable and is specified by you using the operator terminal. Two low energy EC fans work fully automatically to draw in fresh air that is free of pollen and dust from the outside in the required quantity and transport used air from the interior to the outdoors.



Pollutants and noise stay outside

An insect filter removes larger particles from the fresh air that is drawn in. An additional high-performance fine filter cleans the air of pollen, pollutants, fine dust and fungal spores. When the air reaches the interior of the building, it is clean. Stale indoor air and undesirable particles and odours are removed from the building with the extract air. Because you no longer need to open the windows to obtain fresh air, noise stays outside, too.



Flexible installation and maintenance

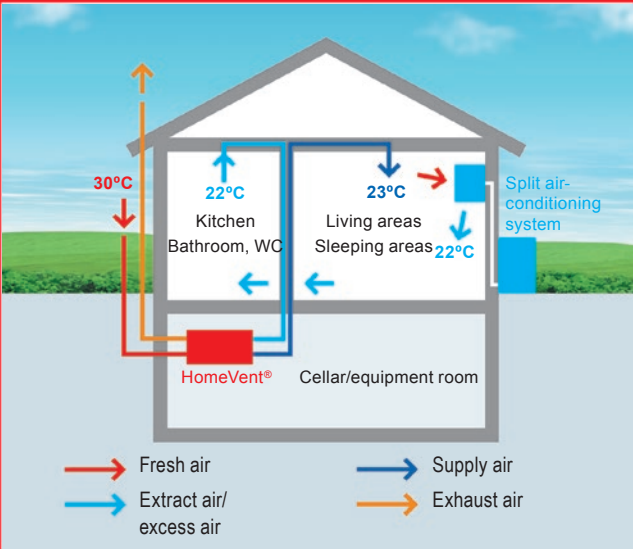
HomeVent® does not produce any condensate. As a result, the device can be installed in any position. The system is accessible for maintenance from two sides* and the filters can be changed quickly without requiring a technical background.

* Only from one side with the HomeVent® comfort FR (250)



Saves investment costs

Unpack it, plug it in – HomeVent® is delivered ready-to-connect and is operational in no time at all. Because of its hygienic, condensate-free operation, HomeVent® also offers clear installation advantages. It does not require installation of a condensate drain, and there is no risk of ice formation. Energy-intensive additional installations or expensive underground coils for air prewarming are superfluous.



During the winter, energy from the extract air is used to add heat and moisture to the fresh air in the HomeVent® heat exchanger. In summer, the exchange of energy works the other way round. The extract air cooled to 22°C by the cooler, for example, cools the fresh air down from 30°C, for example, to a pleasant 23°C in the CoolVent and removes any excess humidity. This results in much less work for the air-conditioning system.



**CoolVent option:
The sophisticated addition for
climate-controlled buildings**

The CoolVent option is an intelligent extension of the HomeVent® system for climate-controlled buildings. In combination with an external air-conditioning unit, CoolVent allows active cold recovery. On hot days, when the indoor air is being cooled, the fresh air is pre-cooled and dried in HomeVent®. Even at the hottest time of the year, this enables energy-saving climate control and a continuous supply of fresh air.

CoolVent – at a glance

- Recovery of the cold generated by the air-conditioning unit – can be continuously adjusted up to 84%
- Distribution of the air-conditioned air via the HomeVent® system – efficient, pleasant, no draughts
- Dries humid fresh air in the summer
- Significantly reduces the energy consumption of the split air-conditioning system
- Easy to install in existing HomeVent® systems
- Easy operation

The right solution for every requirement.

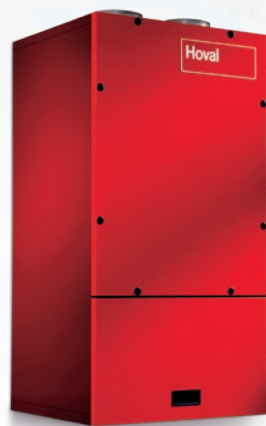
With the HomeVent® comfort ventilation system, Hoval offers an innovative solution for every building situation and guarantees optimum fresh-air comfort. The improved indoor climate increases well-being and saves on heating costs and energy resources.



HomeVent® comfort FRS (180)
for flats



HomeVent® comfort FR (180)
for flats



HomeVent® comfort FR (250)
for single family dwellings



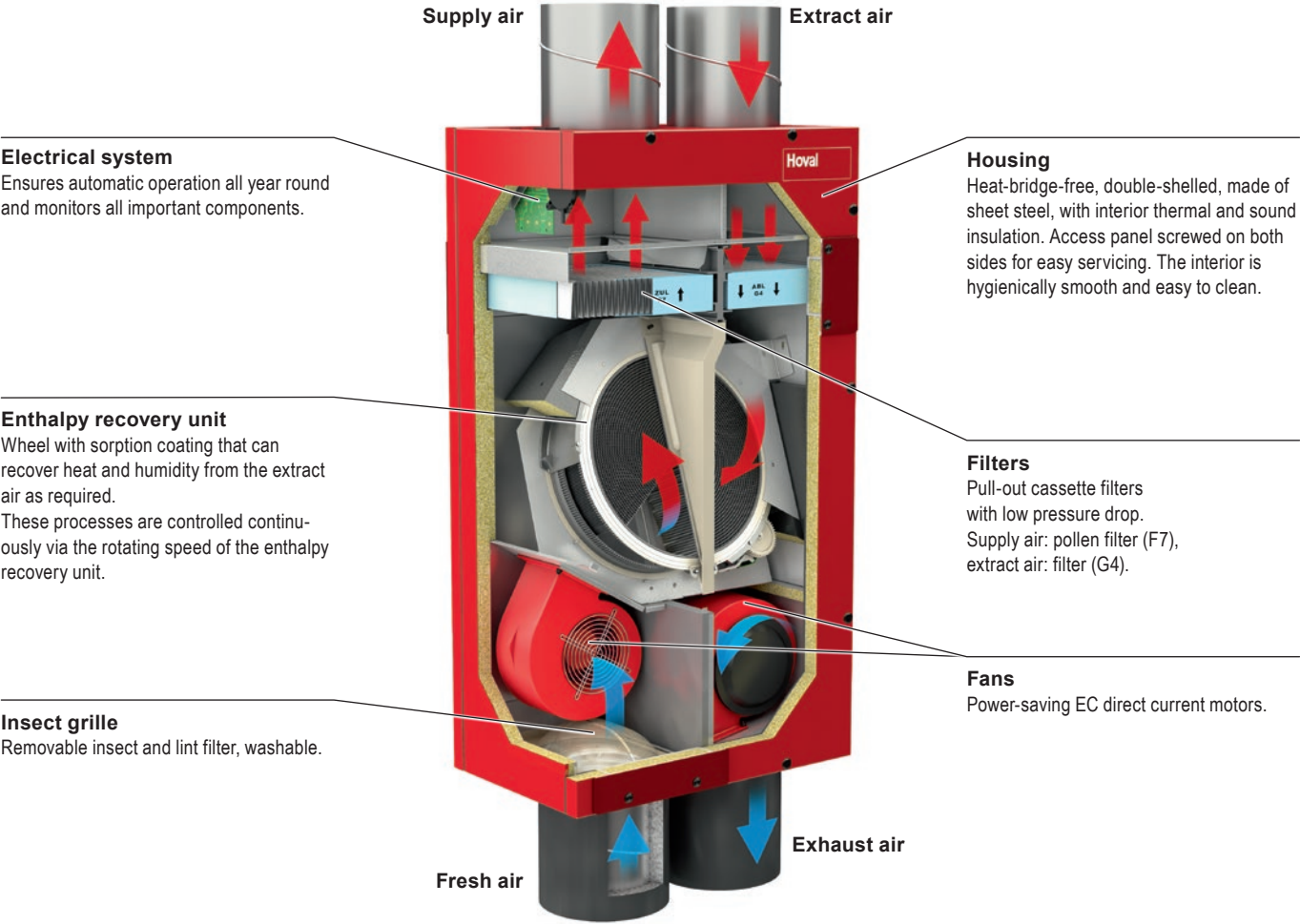
HomeVent® comfort FR (300)
for single family dwellings



HomeVent® comfort FR (500)
for large single family dwellings, villas,
commercial spaces and offices

HomeVent® comfort FRS (180).

Particularly compact – for flats.



Technical data HomeVent®		comfort FRS (180)
Air flow rate	m³/h	40–180
Heat recovery efficiency*	%	90–130
Heat recovery (adjustable)	%	0–85
Humidity recovery (adjustable)	%	0–86
Power consumption**	W	38
Sound pressure 1 m away from the unit**	dB (A)	45
Dimensions (L/W/D)	mm	1170/594/374
Weight	kg	55

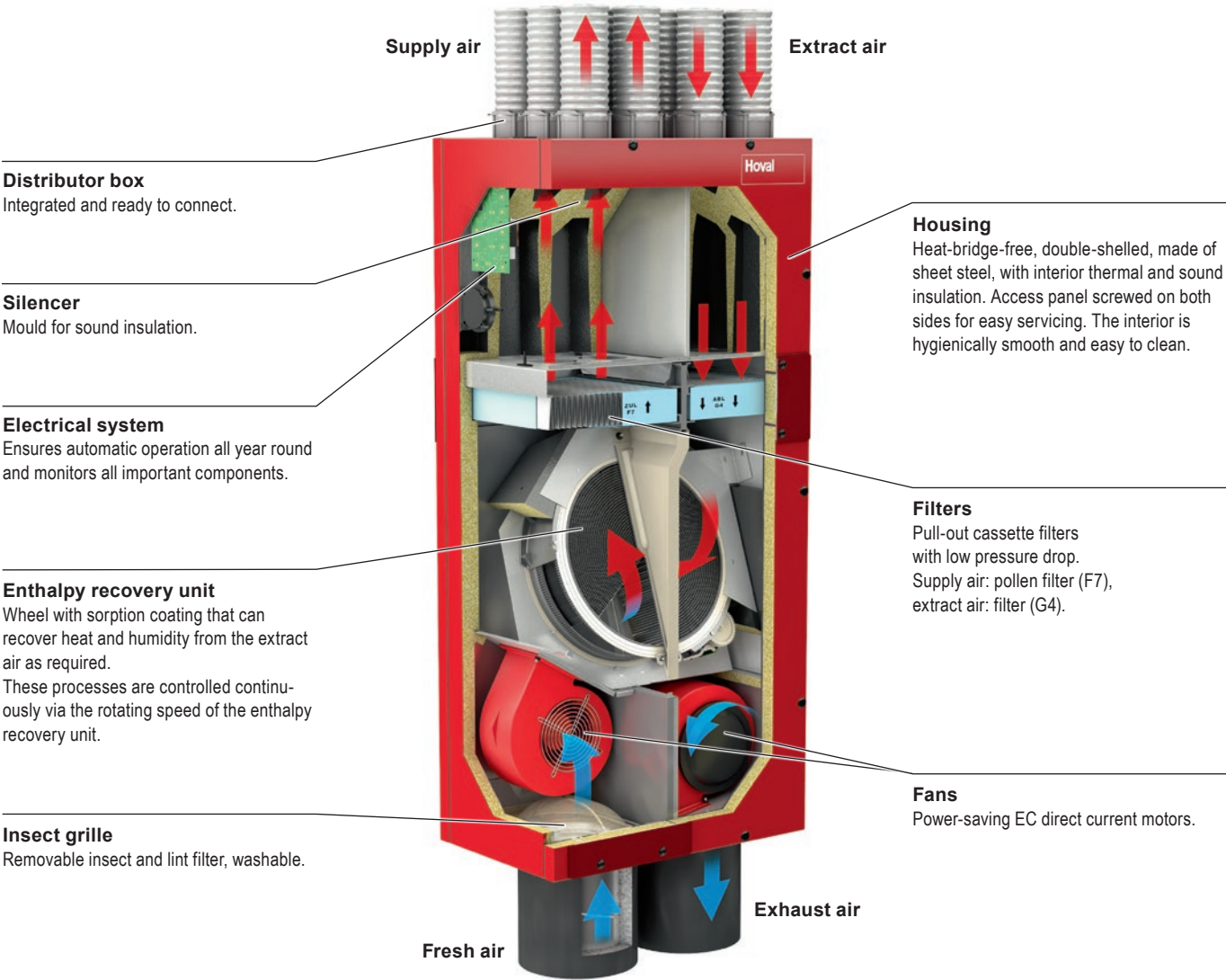
* Depending on enthalpy difference

** At nominal air flow rate 126 m³/h, 50 Pa

Subject to changes

HomeVent® comfort FR (180).

Quiet and complete – for flats.



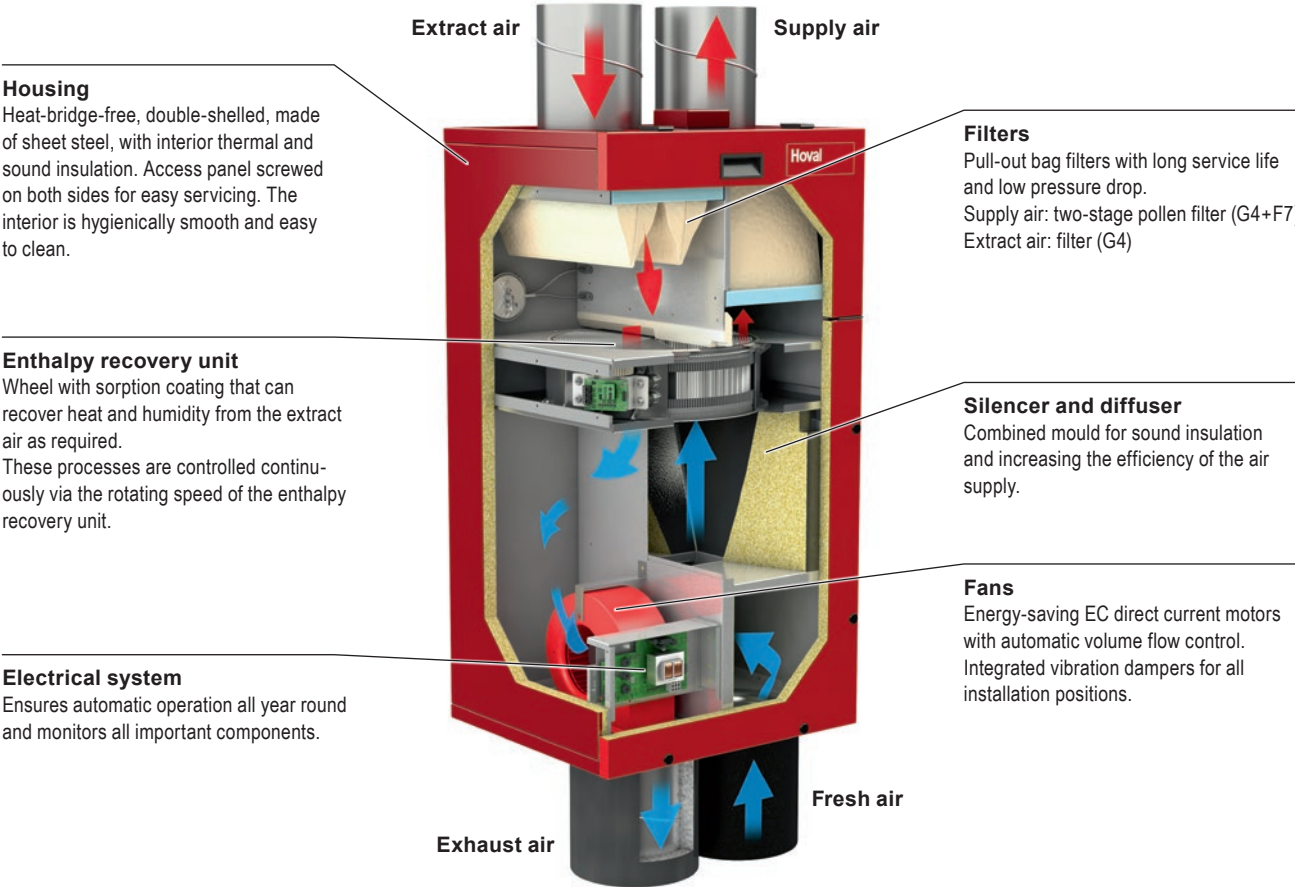
Technical data HomeVent®		comfort FR (180)
Air flow rate	m³/h	40–180
Heat recovery efficiency*	%	90–130
Heat recovery (adjustable)	%	0–85
Humidity recovery (adjustable)	%	0–86
Power consumption**	W	40
Sound pressure 1 m away from the unit**	dB (A)	44
Dimensions (L/W/D)	mm	1384/594/362
Weight	kg	65

* Depending on enthalpy difference
 ** At nominal air flow rate 126 m³/h, 50 Pa

Subject to changes

HomeVent® comfort FR (250).

Economical and reliable – for single family dwellings.



Technical data HomeVent®		comfort FR (250)
Air flow rate	m³/h	65–250
Heat recovery efficiency*	%	96–130
Heat recovery (adjustable)	%	0–84
Humidity recovery (adjustable)	%	0–85
Power consumption**	W	60
Sound pressure 1 m away from the unit**	dB (A)	47
Dimensions (L/W/D)	mm	1050/550/470
Weight	kg	55

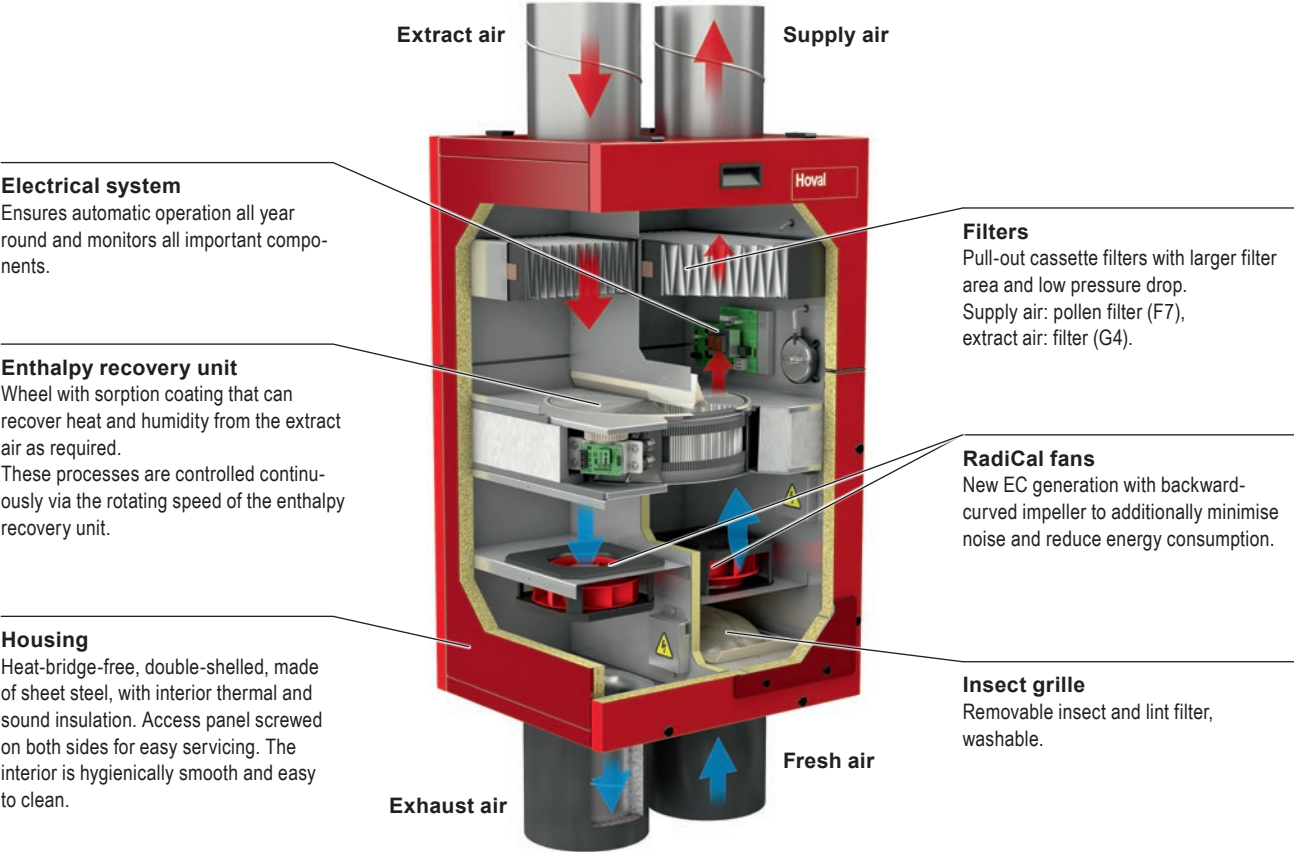
* Depending on enthalpy difference

** At nominal air flow rate 175 m³/h, 50 Pa

Subject to changes

HomeVent® comfort FR (300).

Maximum comfort – for single family dwellings

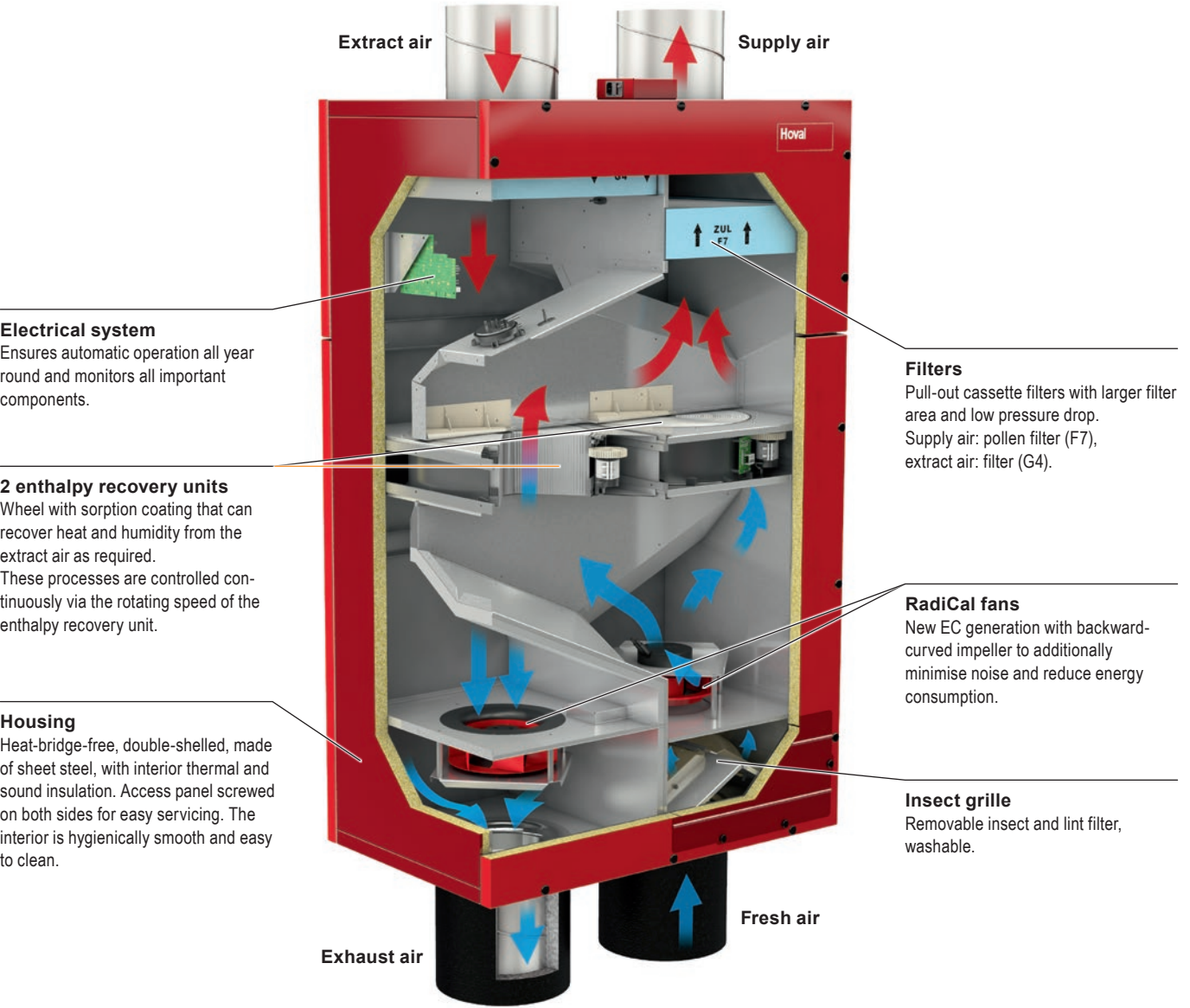


Technical data HomeVent®		comfort FR (300)
Air flow rate	m³/h	300
Heat recovery efficiency*	%	96–130
Heat recovery (adjustable)	%	0–86
Humidity recovery (adjustable)	%	0–85
Power consumption**	W	57
Sound pressure 1 m away from the unit**	dB (A)	44
Dimensions (L/W/D)	mm	940/582/510
Weight	kg	55

* Depending on enthalpy difference
** At nominal air flow rate 210 m³/h, 50 Pa

Subject to changes

HomeVent® comfort FR (500).
Powerful – for large single family dwellings and commercial facilities.



Technical data HomeVent®		comfort FR (500)
Air flow rate	m³/h	100–500
Heat recovery efficiency*	%	90–130
Heat recovery (adjustable)	%	0–82
Humidity recovery (adjustable)	%	0–83
Power consumption**	W	115
Sound pressure 1 m away from the unit**	dB (A)	50
Dimensions (L/W/D)	mm	1566/907/560
Weight	kg	130

* Depending on enthalpy difference
** At nominal air flow rate 350 m³/h, 50 Pa

Subject to changes

HomeVent®.

Comfort at a glance...

Equipment	comfort FRS (180)	comfort FR (180)	comfort FR (250)	comfort FR (300)	comfort FR (500)
Heat and humidity recovery	✓	✓	✓	✓	✓
Fans	energy-saving	energy-saving	energy-saving	RadiCal	RadiCal
Pollen filter	✓	✓	✓	✓	✓
Integrated insect grille	✓	✓	–	✓	✓
Number of heat exchangers (enthalpy recovery unit)	1	1	1	1	2
Access panel for easy servicing	on both sides	on both sides	on one side	on both sides	on both sides
CoolVent function	optional	optional	optional	optional	optional
Integrated silencers	–	✓	–	–	–
Performance increase	–	–	–	optional	optional
Distributor box	external	integrated	external	external	external
Dimensions (L/W/D)	1170/594/374	1384/594/362	1050/550/470	940/582/510	1566/907/560

Subject to changes

...for new buildings and renovations.



Visible technology in a suspended ceiling: As a decentralised comfort ventilation system, the Hoval HomeVent® is also suitable for renovations.



Installed discreetly in the wardrobe.

HomeVent®.

More than fresh air.

HomeVent® quality standards

In putting together the HomeVent® range, special attention was paid to ensuring consistent quality, coordinating designs and compatibility between every feature – from the weatherproof grille right up to the exhaust air hood. All of this makes planning and installation easy. We also set out to ensure that all components meet hygiene requirements and allow easy end-to-end cleaning.



HomeVent® operator terminal BG02: Simply automatic

The volume flow and indoor humidity can be set according to your needs using two control knobs. HomeVent® accomplishes the rest with its fully automated processes. Its internal electronics monitor and regulate the air flow according to need. The system was designed to function perfectly without complicated programming and confusing displays. The Party button is used to temporarily increase the air flow rate, such as when you have company. A display indicates whether the filter needs to be changed.



HomeVent® operator terminal BG03: Comfort by touch

The touch panel can be easily and intuitively used to select your individual program. Simply touch it with your finger to adjust comfort settings such as volume flow, room humidity or CO₂ control or to activate programmed pre-settings such as holiday and night-time operation.

The HomeVent® accessories range includes a control system connection. It intelligently networks your HomeVent® device with the building control system.



Hoval air grilles: A question of style

Harmoniously integrated in the interior design, the air grilles discreetly and inconspicuously do their work and ensure problem-free air supply and extraction.

With its assortment of air grilles in different versions and designs, Hoval offers you the option of selecting a device according to your personal taste and the interior situation. The models range from a functional disc valve to an exclusive designer grille.

Hoval system solutions.

All components from a single source.



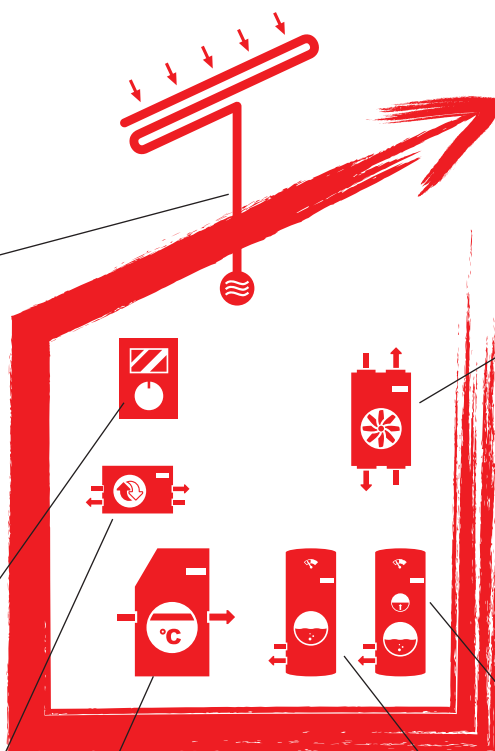
Hoval solar energy systems supply a large proportion of the energy for heating water and/or for supporting the heating system. They can be integrated seamlessly into the Hoval heating system using the solar installation module for the TopTronic®T controller.



Hoval TopTronic®T controller is the brain of the system. It ensures efficient interaction between the system components. It can be expanded to provide additional functions using key modules.



Flat station for convenient supply of heat and hot water to individual residential units.



Hoval comfort ventilation ensures a continuous, regulated supply of fresh air. By recovering heat and humidity, the system not only ensures a well-balanced indoor climate but also prevents energy loss through open windows. Furthermore, the fresh air is filtered to remove pollen and other air-borne particles.



Hoval buffer storage tanks store the heat energy and keep it ready for use in the heating system and/or hot water supply. They are available in capacities ranging from 200–6000 litres.



Heat pumps



Biomass boilers



Condensing gas boilers



Condensing oil boilers

Hoval heat generators

form the basis of every system solution. They are available to meet any demand and for every energy source. Every single one provides maximum efficiency – especially when combined in a system with other Hoval components.



Hoval calorifiers provide a reliable hot water supply at the right temperature. They can be integrated into a range of Hoval system solutions and are available in capacities ranging from 200–2000 litres.

Hoval system solutions with Hom-eVent® can be used in a wide range of different areas:



Single family dwelling
Renovation



New buildings



Multi-dwelling



Commercial
facilities



Municipal
buildings

Solutions you can rely on.

Hoval

Responsibility for energy and environment.

The Hoval brand is internationally recognised as one of the leading suppliers of indoor climate control solutions. Around 70 years of experience have given us the necessary capabilities and motivation to continuously develop exceptional solutions and technically superior equipment.

Maximising energy efficiency and thus protecting the environment are both our conviction and our incentive. Hoval has established itself as an expert provider of intelligent heating and climate control systems that are exported to over 50 countries worldwide.



Hoval indoor climate systems

Indoor climate systems ensure top air quality and economical usability. Hoval has been installing decentralised systems for many years. The key to its work is using combinations of multiple air conditioning units (even those of different types) that can be controlled individually, but also together as a single system. This enables Hoval to respond flexibly to a wide range of requirements for heating, cooling and ventilation.



Design support from experts.

Take advantage of the expertise of our experienced specialists. We will be happy to support you throughout all project phases when designing your system.

Working in close cooperation with you and taking into account all the specifications of the energy supplier, we develop the most efficient and cost-effective solution for you.



Hoval service expertise.

Hoval systems are professionally commissioned by specially trained and experienced Hoval service technicians, ensuring that the systems will operate perfectly from day one. Maintenance and troubleshooting are performed on-site by an expert customer service team.

The entire Hoval world at a click:



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