

HomeVent®

The comfort ventilation system for single-family homes and flats

Hoval

Responsibility for energy and environment



Fresh air any time, without opening a window.
Odours disappear. Air quality remains.

Introduction



Not all fresh air is the same.
Our model is fresh Alpine air.

We're all familiar with the experience of opening the windows in the morning to let some fresh air in. And then you end up sitting in a draught when all you wanted to do was relax with a nice cup of tea or coffee. It's not particularly pleasant – especially in winter when you also want to save on heating costs.

HomeVent® comfort ventilation requires hardly any space and provides a solution to this problem. Quietly and effectively. HomeVent® exchanges stale air with fresh and doesn't just transfer the heat from the old air to the new air – it also conveys the humidity. Overall, it saves more energy than the comfort ventilation system actually needs.

Other comfort ventilation systems can recover heat too. But what about humidity? And what happens with removing bad odours? What we do to ensure the straightforward supply of filtered, healthy air to the rooms in your home is quite a bit more than that.

The control provides the final proof: you only need one unit and this controls everything – ventilation, heating and hot water. As a result, you are able to take your first steps on the path towards a “smart home”.

Our specialists in controlled residential ventilation will be on hand to advise you in just the same way as your trusted planner or ventilation installer.

Patrik Woerz,
Director of Comfort Ventilation
Hoval Aktiengesellschaft, Liechtenstein

The entire world
of comfort ventilation
at a click:
www.homevent.com



Fresh, clean air – straight away!

When a car drives through a tunnel, a sensor switches the air-conditioning straight to circulating air. This keeps exhaust fumes and odours outside. The new models of the HomeVent® comfort ventilation system have a similar sensor to suit individual requirements. It measures the quality of the indoor air in real time. If it detects volatile, odorous, organic compounds, such as those that arise when cooking, HomeVent® enhances the air quantity straight away.

HomeVent® completely circulates the air in your home every two hours – without the need to open any windows and create a draught. With the reliable air filter, you will be able to tell straight away that you can breathe easily, even if you suffer from allergies or live in an area with lots of traffic.

Help – dry mucous membranes!

You barely have to open a window in winter for it to steam up and the humidity to escape. The heating system also plays its part in drying out your mucous membranes so you become a breeding ground for bacteria and viruses. Dryness can also prey on parquet flooring and wooden furniture. HomeVent® brings an end to this.

HomeVent® doesn't just recover the heat – it finds the humidity too. In professional circles, this is referred to as enthalpy. A sensor is installed in order to measure the relative humidity. Values between 40 and 60% are ideal.

In winter, HomeVent® keeps the ambient air humid, while in summer the unit dries it out. Every day, each one of us loses half a litre of water through breathing. Cooking and taking a bath or shower also releases litres of moisture. Hoval's controlled residential ventilation with its humidity sensor and enthalpy recovery unit balances out the humidity in your home – looking after your health and well-being.

Ventilation and heating centrally controlled

It's ideal when you don't have to bother with the ventilation, the heating or even the hot water in your home. This is all taken care of for you by one control system: Hoval TopTronic® E. It's really easy to use and you can operate it conveniently from the touchscreen in your living area.

The TopTronic® E control system even knows what the weather will be like tomorrow. Read more on page 6.





Improved quality of life

Life is for living – no matter whether you're single, have a family, or live in a flat, house or villa. Whatever your circumstances, life can be made that bit more pleasant with controlled residential ventilation.

An early winter morning in the bathroom

- The mirror no longer steams up.
- Your hair is no longer electrically charged like it is when the air is too dry.
- Synthetic clothes no longer stick to your skin.
- The air is even still pleasant when other family members have used the bathroom before you.

A mild early summer's day in the living area

- The air is free of pollen – particularly valued by allergy sufferers.
- Noise, dirt and pollutants stay outside as the windows never have to be opened.
- The air is always fresh and healthy.
- When the days get warmer, HomeVent® dissipates the humidity.

A relaxed autumn evening in the kitchen

- The working day is done, and when it's time to cook, the odours disappear straight away.
- Ventilation or airing no longer required before family or guests arrive.

A cosy winter's night in the dining room

- There's nothing nicer than enjoying a cosy meal with family or friends.
- You could even choose a hot pot or a hearty cheese dish.
- No problem – the air is neutralised in no time at all, without opening a window.
- The heat and humidity remain.

With and without ventilation – what a difference

The Pülzl family bought their new home and put the HomeVent® comfort ventilation system into operation just one month later: the differences are striking – particularly in houses that are highly insulated such as Minergie or energy-plus buildings.

If we ever build a house again, it will certainly have comfort ventilation.

With Hoval HomeVent®, we save a large amount of money as power consumption is extremely low.

“We really understand the difference between ‘ventilation on’ and ‘ventilation off’ – it’s a huge one! Without ventilation, the air was a nightmare. When we came home, it smelled of

parquet adhesive, varnish, paint, new furniture and yesterday’s meals. The air was damp, the climate unpleasant. I won’t even mention the air in the bedrooms. After all, it is a new building with tight seals!

Now with ventilation, we notice just one thing when we enter the house: inside, it’s always comfortable, even when it’s

cold outside. The air and the indoor climate are perfect. It’s also great that the windows and the mirror in the bathroom no longer steam up, and the floor panels dry out again quickly. I’m sure there won’t be any mould growth! The air quality is much higher than before in the bedrooms too, so we get a much better night’s sleep.

The installer completed the work promptly and the cost was less than I’d expected. The experts at Hoval planned the

project very well and placed the air outlets in our home so that there’s no draught. As a result, we only notice our ventilation because of the good air quality.

We also bought our heating system, an air/water heat pump, from Hoval. It is of course practical to get everything from a single source.”



We only notice our ventilation because of the good air quality.

The control that knows tomorrow's weather

For HomeVent® residential ventilation – and for your heating and hot water too – you only need one control system: Hoval TopTronic® E.

It controls operation depending on the weather and takes reliable weather forecasts for your location from the Internet: if the sun is going to shine into your rooms and warm them up during the day, the heating doesn't start to run at full power in night reduction mode.

You save energy while staying on top of costs and environmental concerns, without having to go without comfort. With just a few taps, TopTronic® E caters to your personal requirements and accommodates your habits.

Just one room control unit needed



Comfort ventilation
Hoval HomeVent®



Touch display
TopTronic® E

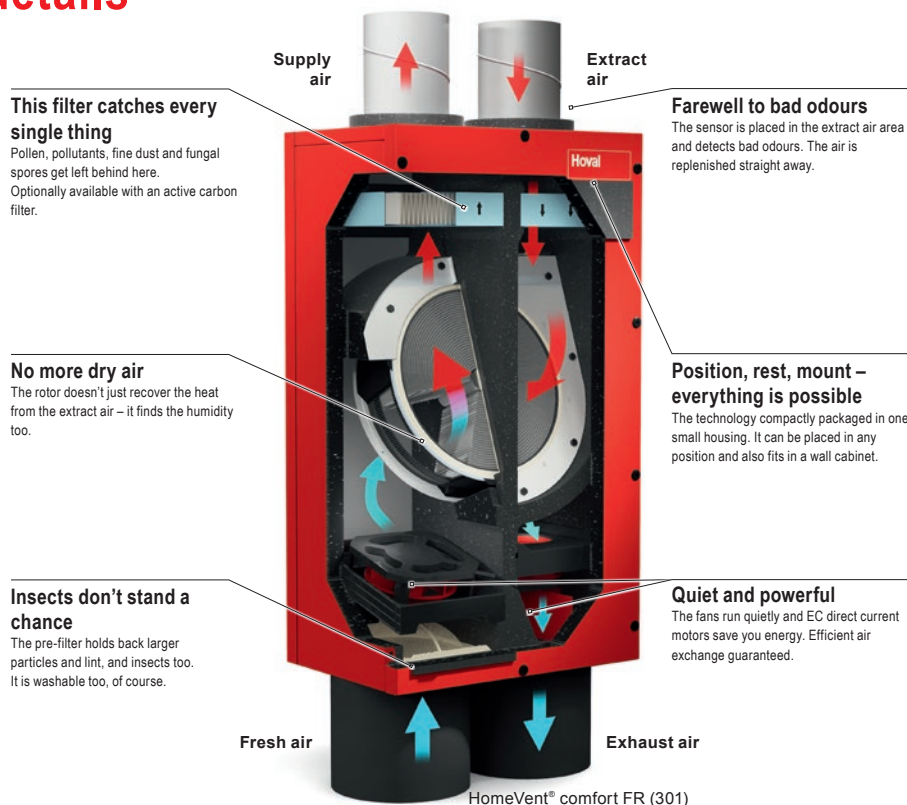


E.g. heat pump
Hoval Belaria® Compact IR

Further impressive details

Like to take a look inside?

The longitudinal section reveals further details about HomeVent® that characterise comfort ventilation for Hoval. The information on this page may also be of interest to your trusted planner or ventilation installer.



* From autumn 2017

HomeVent® at a glance.



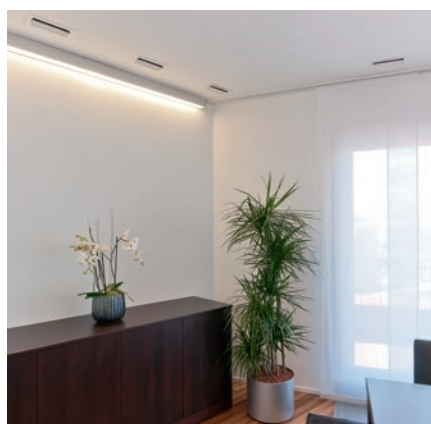
HomeVent® overview		comfort FR (150)	comfort FR (201)	comfort FR (251)	comfort FR (301)	comfort FR (360)	comfort FR (500)
Technical data ¹⁾							
Air flow rate (continuously adjustable)	m³/h	15–150	40–200	50–250	60–300	40–360	50–500 ²⁾
Heat recovery efficiency up to	%	130	130	130	130	130	130
Heat recovery (adjustable)	%	0–86	0–84	0–84	0–85	0–85	0–84
Humidity recovery (adjustable)	%	0–91	0–91	0–90	0–90	0–87	0–83
Power consumption (with 70% air flow rate)	W	29	38	50	60	58	95
Dimensions (L/W/D)	mm	1100 / 594 / 259	1000 / 560 / 374	1000 / 560 / 374	1000 / 560 / 374	940 / 581 / 516	1501 / 907 / 564
Weight	kg	45	33	33	33	55	130
Equipment							
Heat and humidity recovery		✓	✓	✓	✓	✓	✓
Flexible installation position		✓	✓	✓	✓	✓	✓
Anti-ice protection (elec. preheating)		not necessary	not necessary	not necessary	not necessary	not necessary	not necessary
Condensate drainage		not necessary	not necessary	not necessary	not necessary	not necessary	not necessary
Access panel for easy servicing		on both sides	on both sides	on both sides	on both sides	on both sides	on both sides
Cooling recovery (CoolVent function)		optional	optional	optional	optional	optional	optional
Integrated air quality sensors		–	optional	optional	optional	–	–
Performance increase		–	–	–	–	–	optional ²⁾
Energy efficiency		A+	A+	A+	A+	A+	A+

¹⁾ according to EN 13141-7 | ²⁾ optional performance increase up to 600 m³/h



There's always room for comfort ventilation

You can have the HomeVent® ventilation unit installed vertically or horizontally – and even on a sheltered balcony. It is able to withstand temperatures down to -16°C. And as it doesn't create any condensate, it also doesn't need any drainage.



The right air grille for every style

You will hardly notice the vents in your home as they are professionally positioned. You can also choose the grille: the portfolio ranges from a purely functional model to a designer grille.



Double filter: pollutants stay outside

This will be of particular interest to allergy sufferers. Once the pre-filter has caught the insects and larger particles, the fresh air flows through a fine filter into the home. It relieves the air of pollen, pollutants, fine dust and fungal spores.

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.



Warm rooms, warm water, fresh air: one system.

Hoval is also your specialist for heating technology – and your experienced partner for system solutions. For example, you can heat water with the sun's energy and the rooms with oil, gas, wood or a heat pump. Hoval brings the different technologies together and also incorporates your residential ventilation into this system.



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.

Hoval Group

Switzerland

Hoval AG
8706 Feldmeilen ZH
www.hoval.ch

Austria

Hoval Gesellschaft m.b.H
4614 Marchtrenk
www.hoval.at

Germany

Hoval GmbH
85609 Aschheim-Dornach
www.hoval.de

United Kingdom

Hoval Ltd.
Newark Notts. NG 24 1JN
www.hoval.co.uk

Italy

Hoval s.r.l.
24050 Zanica (BG)
www.hoval.it

France

Hoval SAS
67118 Geispolsheim
www.hoval.fr

Denmark

Hoval a/s
8660 Skanderborg
www.hoval.dk

Bulgaria

Hoval Corporation - Branch Bulgaria
1797 Sofia
www.hoval.com

Croatia

Hoval d.o.o.
10 000 Zagreb
www.hoval.hr

Czech Republic

Hoval spol. s r.o.
312 04 Plzeň
www.hoval.cz

Poland

Hoval Sp. z o.o.
62-002 Suchy Las
www.hoval.pl

Romania

Hoval s.r.l.
Voluntari 077190
www.hoval.ro

Slovakia

Hoval SK spol. s r.o.
04001 Košice
www.hoval.sk

Sweden

Hoval Enventus AB
Hedenstorpsvägen 4
555 93 Jönköping

China

Hoval Ltd.
100016 Beijing P.R. China
www.hoval.com.cn

Singapore

Hoval Corporation
Singapore 187966
www.hoval.com



The entire world
of comfort ventilation
at a click:
www.homevent.com

Your Hoval Partner:

Hoval Aktiengesellschaft
Austrasse 70
9490 Vaduz, Liechtenstein
www.hoval.com