

Hoval

Hoval Belaria® comfort ICM

THE air-source heat pump
for indoor spaces.

Invisible | Compact | Cooling



Hoval | Responsibility for energy and environment

Hoval Belaria® comfort ICM

Air/water heat pump.

Air is an inexhaustible energy source. It is free and available everywhere in unlimited quantities. An air/water heat pump heats highly efficiently and reliably using this ambient air and power. And by making use of green energy or solar power – perhaps even from your own photovoltaic system – you will be able to generate heat sustainably.

Added value for your benefit:

- Invisible from the outside due to indoor installation
- Space-saving installation
- Various connection options
- Integrated cooling function
- Power adjustment (modulation)



Air/water heat pump for heating, cooling and generating hot water. Modulating indoor installation.

Range of applications:

Single-family home, two-family home – for new buildings and renovations.

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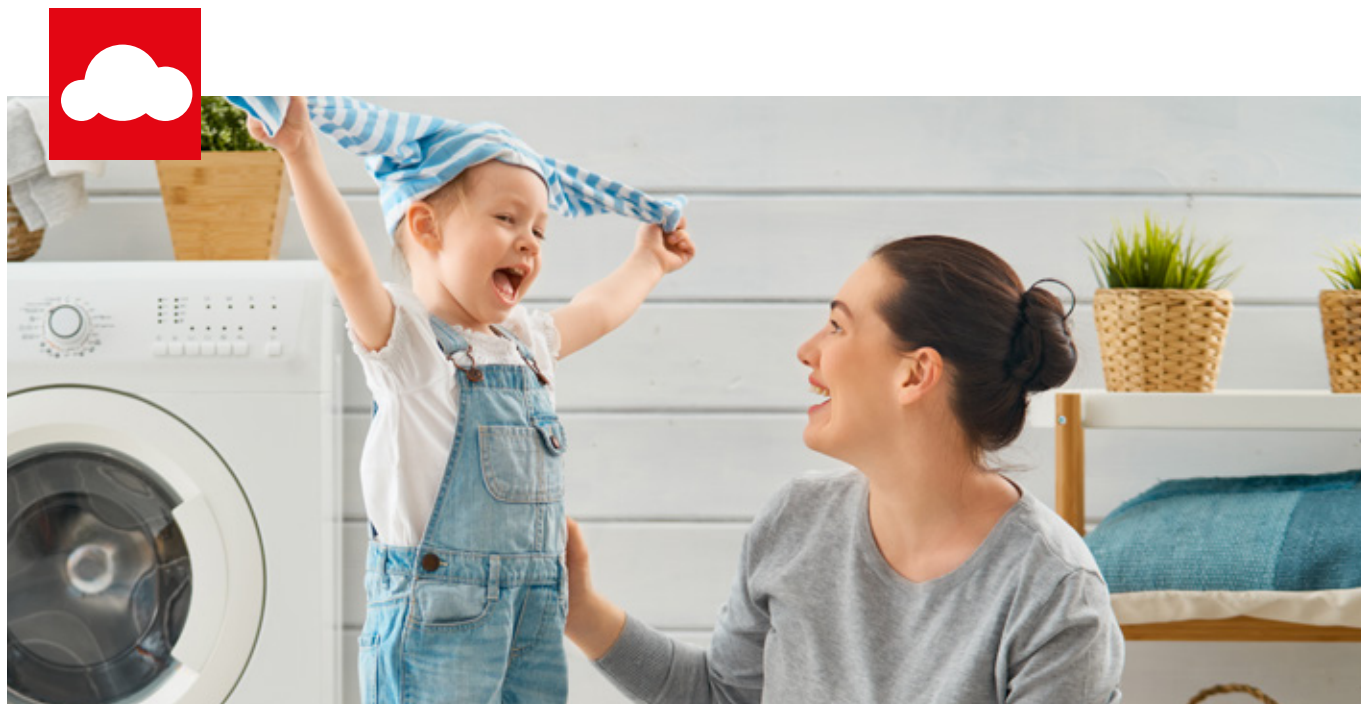


CleverCool inside



EnergyManager PV smart





Invisible

How can a heat pump be invisible? Heat pumps that use the ambient air as their source of energy are often installed outside next to the house. By contrast, the Belaria® comfort ICM is located inside the home. Via openings in the wall similar to those used for windows, the air can enter the heat pump and then flow back out again once the heat has been collected. Both wall openings are protected by means of protective grilles with a stylish slat appearance similar to a roller blind. The grilles are available as matching accessories, as well as in special sound-insulated version which reduces noise to a whisper.

The Belaria® comfort ICM adapts its output seamlessly to the heat output required. One advantage of this adapted mode of operation is that when the heat pump is working at reduced output, it is even quieter than usual – and it is already very quiet thanks to its superb sound insulation. When “silent operation” is activated, the noise level is reduced even further, meaning that the Belaria® comfort ICM is both invisible and virtually silent.

Compact

The Belaria® comfort ICM's compact design means you'll have no trouble finding space for it inside the home. The high-quality and stable

casing with powder-coated side walls features an attractive design and only requires a small installation space. The Belaria® comfort ICM has an integrated switching valve so that it is ready for connection to the hot water supply.

The Belaria® comfort ICM takes up the least amount of space when it is installed in a corner directly against the wall. As it has connections on both sides, you will quickly be able to find a suitable corner. The installation process is even simpler if you are constructing a new building and take the wall openings for the air supply into account right from the planning stage. Alternative installation solutions are also possible thanks to the various connection options available for supplying and removing the air and matching accessories.

Cooling

If necessary, the heat pump will also cool your rooms in the summer. The cooling function comes as standard and covers a wide operating range. With the corresponding hydraulic system installed, the function will work fully automatically to provide a pleasant indoor climate and increased comfort up to an outdoor temperature of 40°C.



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Air/water heat pump.

Efficient

The Belaria® comfort ICM modulates, i.e. it seamlessly adapts the output produced to the demand. As a result, it switches on and off less frequently, works more evenly and consumes less energy. Modulation is particularly important in spring and autumn – the seasons which account for 90% of the unit's operating time. Viewed across the year as a whole, this enables it to operate particularly efficiently.

The EnergyManager PV smart also helps you save money. By using this standard, free feature together with the HovalConnect online service, you will use more power generated by your own photovoltaic system and therefore consume less from the public grid.

Always the right solution

Right corner, left corner or positioned in the middle of the wall? The Belaria® comfort ICM can be adapted flexibly to the conditions on site. For the hydraulics, electrics and even the air outlet, you can choose between the connections on the right or left-hand side. And by incorporating additional accessories, the air outlet can even come out of the top of the unit. The only aspect that is fixed is that the air is drawn in at the back.

If you opt for a corner installation, the Belaria® comfort ICM is positioned right against the walls to save space and does not require any long and bulky hoses for the supply and extract air. As a result, you will quickly be able to find a space for the installation and the connections are simple to plan. As the unit is delivered as

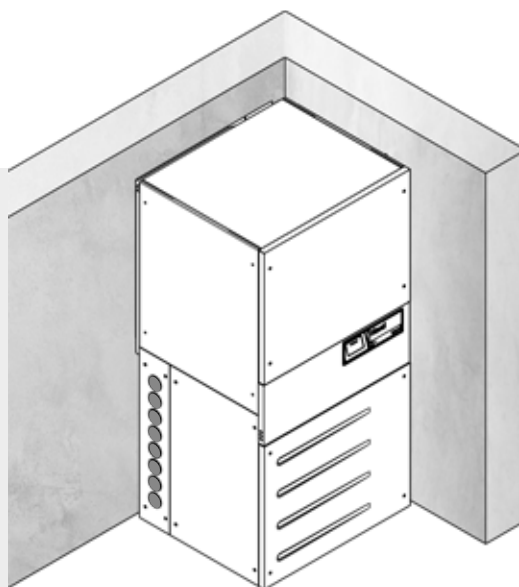
Reliable

The Belaria® comfort ICM works particularly efficiently together with a low-temperature heating system such as underfloor heating. This provides a comfortable level of heat in new buildings in particular. That said, the Belaria® comfort ICM can also be an ideal provider of heat in renovated buildings too.

The Belaria® comfort ICM obtains energy from the air outside even at low winter temperatures. And in the rare event that the heat pump reaches its limits due to extremely low outdoor temperatures, the installed electric auxiliary heating will provide assistance, meaning that the required heat will be reliably available even in these exceptional circumstances!

a complete, ready-to-fit system, the installation work can be completed in next to no time too.

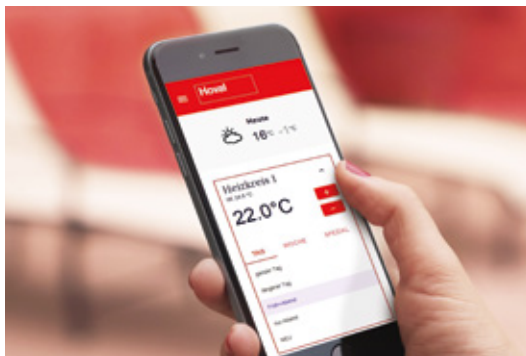
If a renovation project requires the air/water heat pump to use existing wall openings for the air supply, the various connection options provided with the Belaria® comfort ICM mean this won't be a problem. If the spaces available for transporting the unit happen to be too narrow, a specialist can even split the Belaria® comfort ICM into two pieces.





Hoval TopTronic® E

As little control as necessary.



Hoval TopTronic® E

is the uniform system controller for Hoval heat generators and comfort ventilation as well as other components such as solar plants or calorifiers. It connects the individual components and ensures that they interact in the most energy-efficient manner. All the connected components can be adjusted using the same control module. The HovalConnect online service enables the Hoval TopTronic® E control system to be accessed via a browser or a smartphone app.

Straightforward

One control system for everything. You do not need to worry about a thing. Once set up, the TopTronic® E system controller automatically provides the right temperature in your rooms, hot water and even a pleasant supply of fresh air.

Convenient

Operate your Hoval system from anywhere with the HovalConnect online service. The app lets you adjust temperatures, select the programmes you want or switch your system from holiday mode. HovalConnect even takes into account the weather forecast, preventing rooms from overheating and saving on expensive heating energy.

Informative

The room control module's large display enables you to view information ranging from the most important system data down to the weather forecast. The HovalConnect dashboard also lets you check your system's output and consumption data. And no matter which unit you're using, the heating system automatically reports when service is required or faults occur.

Hoval Belaria® comfort ICM

Technology and systems.

Hoval Belaria® comfort ICM		(8)	(13)
Room heating energy efficiency for «average climate» of 35°C	ηS	181	180
Room heating energy efficiency for «average climate» of 55°C	ηS	130	136
Energy efficiency class for heating at 35°C		A+++	A+++
Heat output, min. – max. at A2W35 (EN 14511)	kW	2,1 - 6,6	3,8 - 12,7
Cooling capacity, min. – max. at A35W18 (EN 14511)	kW	2,6 - 8,0	6,9 - 13,9
Seasonal coefficient of performance for «average climate» at 35°C/55°C (EN 14825)	SCOP	4,5 / 3,3	4,6 / 3,5

Effective in a system

Hoval supplies all components for an efficient heating and room air system. The Hoval TopTronic® E system controller combines all components into an efficient overall system. This solution ensures you are provided with standardised operation and matching components.



**Hoval
heat generators**



**Hoval
solar plant**



**Hoval
storage tanks**



**Hoval
comfort ventilation**

We are there for you
And we have been for generations.



Consulting and design

Whether you're looking for a heating, cooling or ventilation solution, for a new building or a renovation project, Hoval is here to give you expert advice. Do you design, install or operate systems? Or are you an investor? Then we speak your language. Experienced Hoval consultants gain an in-depth understanding of your requirements and suggest appropriate solutions on that basis.

Service expertise

Do you need to have a system commissioned or serviced? Hoval customer service technicians are here to help. Regular maintenance will give your system a longer service life. Your investment will maintain its value over many years and operation will remain as economical as possible.



Hoval quality.
You can count on us.

Hoval

As a specialist in heating and climate technology, Hoval is your experienced partner for system solutions. For example, you can heat water with the sun's energy and your rooms with oil, gas, wood or a heat pump. Hoval ties together the various technologies and also integrates room ventilation into the system. So you can save energy while looking after the environment and your costs – and still enjoy the same level of comfort.

Hoval is one of the leading international companies for indoor climate solutions. More than 75 years of experience continuously motivate us to design innovative system solutions. We manufacture complete systems for heating, cooling and ventilation to more than 50 countries.

We take our responsibility for the environment seriously. Energy efficiency is at the heart of the heating and ventilation systems we design and develop.

Responsibility for energy and environment

Germany

Hoval GmbH
85609 Aschheim-Dornach
hoval.de

Austria

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

Switzerland

Hoval AG
8706 Feldmeilen
hoval.ch

Your Hoval partner