Hoval

Hoval Belaria® pro

quiet | flexible from 20–200 kW | complete solution



20-200 kW

R290 Natural refrigerant

The air-to-water heat pump solution for the future
in residential and commercial use

Hoval | Responsibility for energy and environment

Hoval Belaria® pro

The air-to-water heat pump solution for the future of residential and commercial use

- quiet
- flexible from 20–200 kW
- complete solution

The quiet air-to-water heat pump solution for large buildings

Up until now, the energy transition has presented major challenges for specialist planners, clients and investors: How do we move away from fossil fuels? How can we meet the increasingly demanding standards? Many answers represented a compromise. That is no longer the case.

The Belaria® pro from Hoval is a comprehensive and futureproof air-to-water heat pump solution for heating and cooling residential and commercial buildings:

It is incredibly quiet and can be scaled in a finely graduated manner from 20 to 200 kW. All the required additional components – storage tank, distributor, domestic water, electrics and control technology – are available from a single source.

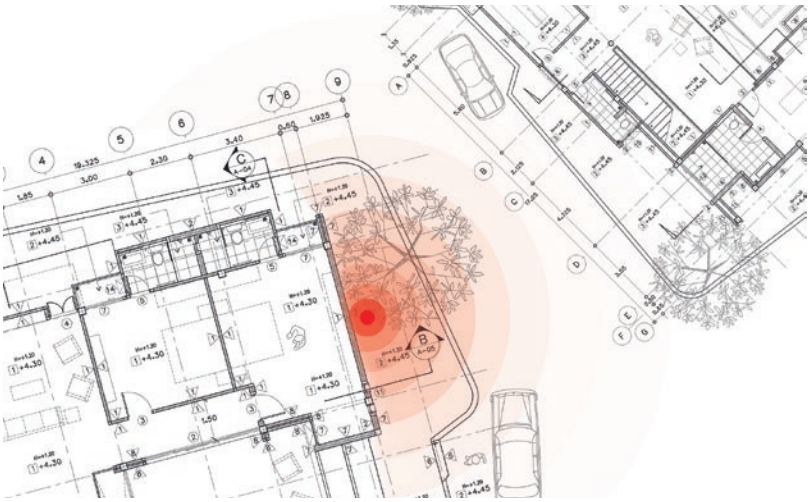
Comprehensive support makes project management and detailed work easier for planners, installers and investors.



Quiet despite high output

A difference of just a few decibels can be crucial in deciding whether a system can be approved.

Despite its high output, the Hoval solution is among the quietest on the market due to its sophisticated technology: When it comes to sound, the Belaria® pro heat pumps achieve top scores. Expensive on-site sound insulation measures are generally not required.

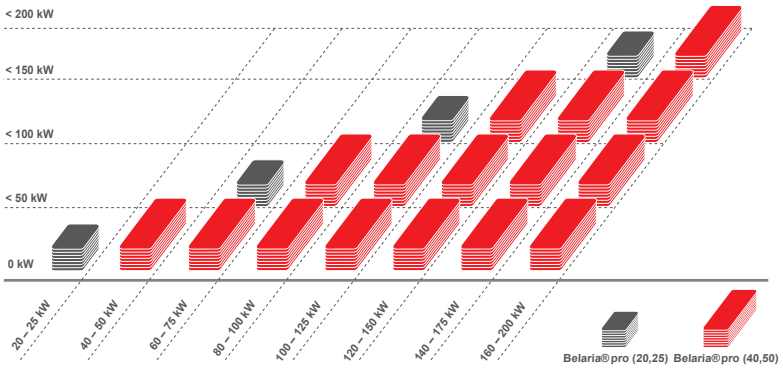


Belaria® pro solutions are ideal for densely built-up residential areas.

Optimum output from 20 to 200 kW

The Belaria® pro with its four output ratings (20, 25, 40 and 50 kW) is easy to cascade, enabling finely graduated system outputs from 20 to 200 kW.

Its modulating inverter technology ensures that exactly the output that is currently needed is always available. The result is efficient operation with low operating costs.

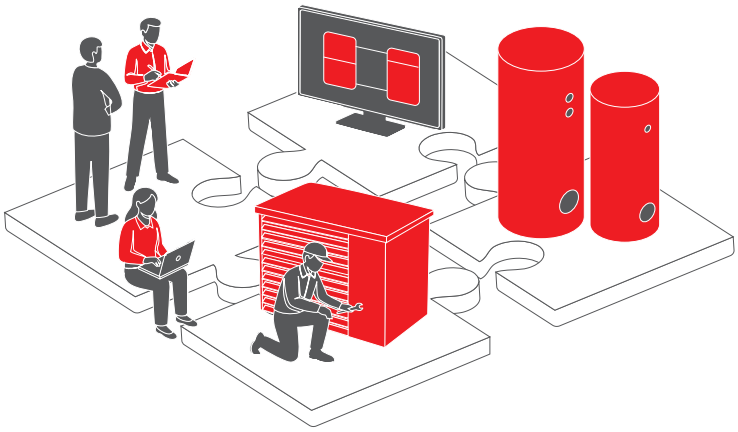


High efficiency due to finely graduated system outputs from 20–200 kW.

The planner's first choice: The single-source complete solution

A heat pump is rarely used in isolation. That's why we have perfectly matched components to create a complete system – from heat pump-optimised buffer storage and cold storage tanks to domestic water heating, heat distribution and a control system featuring remote maintenance.

The Hoval team will support you during every phase of the project – from project development to optimisation and maintenance. This is how we work together to ensure a perfect solution and satisfied customers.



The planner's first choice: Belaria® pro complete solutions for futureproof heating and cooling in residential and commercial use.



The core component

The air/water heat pump with the wow factor

Quiet, highly efficient, high flow temperature, high output and natural refrigerant

The whisper-quiet heat pump

The Belaria® pro is incredibly quiet due to a compressor that is installed on sound-absorbing mounts, a low-vibration mounting and additional encapsulation.

The casing of the outdoor unit is specially soundproofed and features vibration-damping feet as standard, which ensure effective structure-borne noise decoupling. They "swallow up" vibrations, making the units highly suitable for installation on the roof.

The air is discharged forwards to the ground, meaning that the floors above are not affected. When the unit is in operation, it does not disturb the residents or the neighbours.

High flow temperature for refurbishments and domestic water

Existing buildings often have a level of insulation that is inferior to that of modern buildings and distribute the heat less efficiently via radiators.

With its high flow temperatures of up to 70°C at outdoor temperatures of -10°C, the Belaria® pro is also ideal for renovation projects on these kinds of buildings – with no need to install additional systems. In addition, this flow temperature makes it easy to provide domestic water heating.

Highly efficient for low operating costs

The Belaria® pro offers savings on operating costs of between 15 and 25% compared to similar systems.

The heat pumps operate highly efficiently and meet the criteria of the highest energy efficiency class A+++ for both low-temperature and medium-temperature applications.

They are able to do this not least due to their modulating compressor, which only ever consumes the power that it actually needs.

The "seasonal room heating energy efficiency" indicates how much energy is actually required to produce a kilowatt hour of heat. This is where the Belaria® pro achieves a top score in its performance class with a figure of more than 200% for low-temperature applications.

A+++
(A+++→ D)

A+++
(A+++→ D)

CleverCool inside

HovalConnect

HovalSupervisor cloud

Hoval Integrate

EnergyManager PV smart

Natural refrigerant

Natural refrigerant
R290 (propane)



Belaria® pro (40,50)

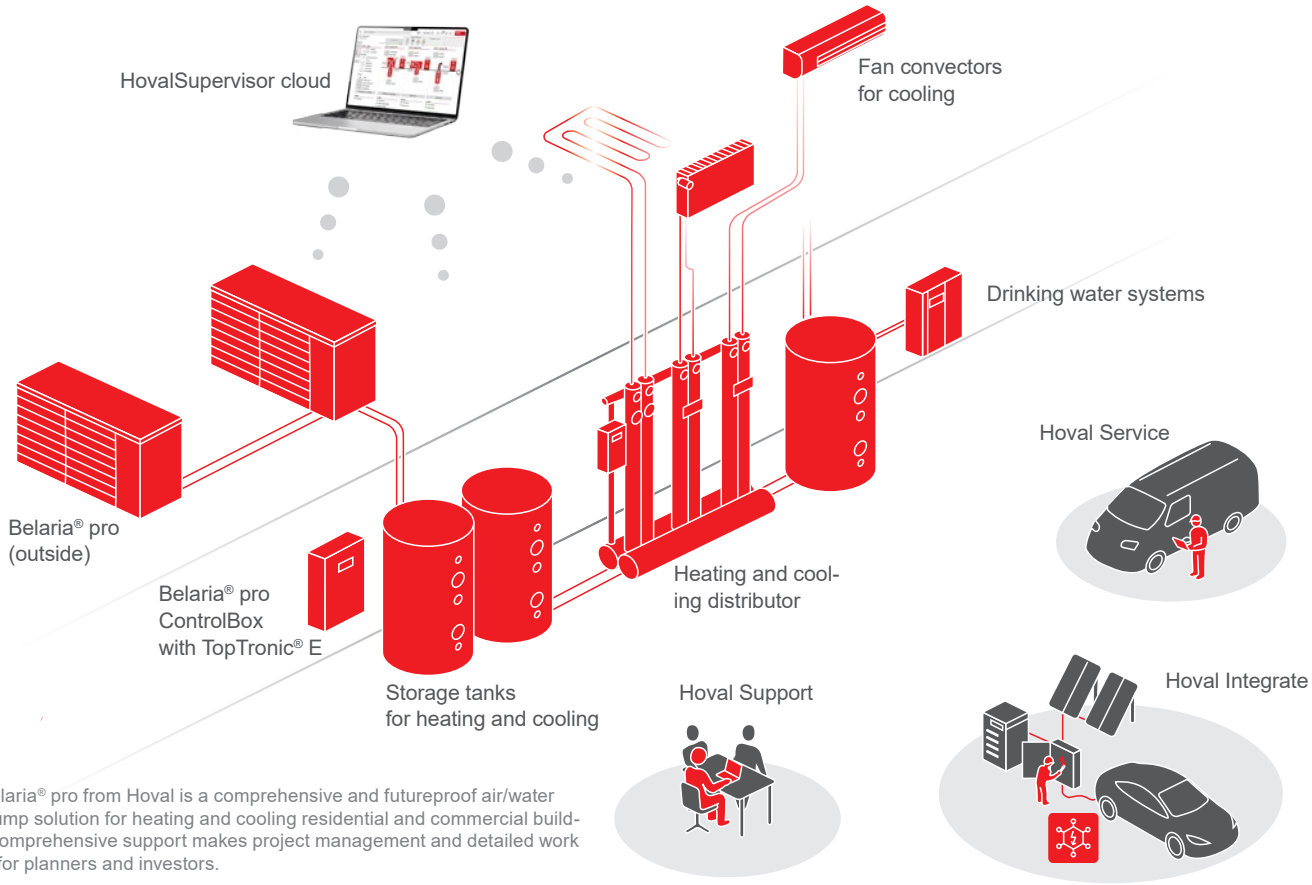
Belaria® pro (20,25)

Hoval Belaria® pro		(20)	(25)	(40)	(50)
Energy efficiency class, “moderate climate” 35/55°C (A+++→ D)		A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Room heating energy efficiency, “moderate climate” 35/55°C ηS	% / %	223 / 162	220 / 164	202 / 155	210 / 163
Seasonal coefficient of performance, “moderate climate” 35/55°C (EN 14825)	SCOP	5.6 / 4.1	5.6 / 4.2	5.1 / 3.9	5.3 / 4.1
Heat output, min. – max. at A2W35 (EN 14511)	kW	11.8 - 19.2	11.8 - 24.0	11.8 - 38.4	11.8 - 48.0
Heat output, min. – max. at A-7W35 (EN 14511)	kW	11.9 - 17.7	11.9 - 22.1	11.9 - 35.4	11.9 - 44.2
Cooling capacity, min. – max. at A35W18 (EN 14511)	kW	13.0 - 20.9	13.0 - 20.9	13.0 - 41.8	13.0 - 41.8
Max. sound power level of outdoor unit, day operation	dB(A)	60	60	65	65
Sound power level of outdoor unit (EN 12102)	dB(A)	55	55	55	56
Max. flow temperature	°C	70	70	70	70
Refrigerant		R290	R290	R290	R290
Refrigerant filling quantity*	kg	4.4	4.4	Circuit 1 = 4.8 Circuit 2 = 4.9	Circuit 1 = 4.8 Circuit 2 = 4.9
Dimensions of outdoor unit (height x width x depth)	mm	1464 x 1928 x 997	1464 x 1928 x 997	1514 x 3750 x 1005	1514 x 3750 x 1005
Dimensions of electrical box (height x width x depth)	mm	750 x 600 x 160	750 x 600 x 160	750 x 600 x 160	750 x 600 x 160

* Filling quantity below 5 kg with simplified installation: no access restriction required

The planner’s first choice

The single-source complete solution – planning and support included



The Belaria® pro from Hoval is a comprehensive and futureproof air/water heat pump solution for heating and cooling residential and commercial buildings: Comprehensive support makes project management and detailed work easier for planners and investors.



TopTronic® E: System Control

TopTronic® E is the system controller for all Hoval components. Its modular design allows it to reliably control both small installations and complex hybrid and cascade systems with up to 8 heat generators and 48 heating circuits, adapting operation to actual demand. Open interfaces enable flexible integration into building automation systems. Digital connectivity via HovalSupervisor cloud enables easy system control and remote monitoring.



HovalSupervisor cloud: control system

With the professional HovalSupervisor cloud control system, not only your heat generator but also your entire system can be conveniently accessed remotely at any time and from anywhere. Whether PC or tablet – a browser is all you need to keep an eye on your systems at all times.
If you so wish, numerous interfaces also enable further components such as heat meters, electricity meters or other field devices to be integrated directly into the overview and controlled conveniently.



HovalConnect: Mobile connectivity

With the HovalConnect app, you can control your system easily and reliably from anywhere at any time. Intuitive operation, automatic synchronisation and transparent real-time and historical data ensure you have an overview of everything at all times. The system automatically reports any faults.



Hoval Integrate: Open networking made easy

Open, futureproof and independent of any specific system, Hoval Integrate makes it easy to connect Hoval systems, particularly heat pumps, to external energy management and home automation systems. This makes it possible to use intelligent functions such as PV surplus, sector coupling, variable electricity tariffs or grid-friendly control to maximum effect.



Storage tanks for heating and cooling

We offer you not only conventional buffer storage tanks for the effective storage of heating energy, but also heat pump-optimised products for high flow rates and specially insulated products for cooling applications.



Domestic water systems: The right solution for every project

Our storage tank and continuous flow systems use heat exchangers to ensure efficient and hygienic domestic water heating. We have the right products in our range to meet every requirement.



HomeVent® comfort ventilation

Comfort ventilation from Hoval is the ideal addition to a heat pump. With controlled moisture recovery, it automatically ensures a healthy, pleasant indoor climate all year round. Its highly efficient heat recovery also allows it to save heating energy – and operating costs as a result.



Photovoltaic electric heating element

Make direct use of PV electricity with photovoltaic electric heating elements from Hoval, which ensure that energy is used even more efficiently. This additional heating option for domestic and heating water optimises the consumption of the electricity you produce and minimises heat pump cycling.



TransShare heating and cooling distributor

The TransShare ensures the efficient distribution of heating water throughout the building. The heating distributor is prefabricated based on project requirements, supplied ready for connection with its electrical wiring and can be installed in just one day.



ControlBox: ready-to-connect electrics

In cascades, a single ControlBox replaces the electrical boxes of the heat pumps. They meet the individual system and customer requirements and save on installation time and space.



Support before, during and after

Whether for a residential development, public building, commercial property or hotel, Hoval supports investors, planners and installers with planning, coordination and commissioning.



Renowned Hoval service

Our superbly trained customer service employees ensure smooth operation whenever and wherever they are needed.

Hoval quality.
You can count on us.

Hoval

Hoval is one of the leading international companies for heating and indoor climate solutions. Drawing on more than 80 years of experience and benefiting from a close-knit team culture, the Hoval Group delivers exciting solutions and develops technically superior products. This leadership role requires a sense of responsibility for energy and the environment, which is expressed in an intelligent combination of different heating technologies and customised indoor climate solutions.

Hoval also provides personal consultations and comprehensive customer service. With around 2500 employees in 15 companies around the world, Hoval sees itself not as a conglomerate, but as a large family that thinks and acts globally.
Hoval heating and indoor climate solutions are currently exported to more than 50 countries.

Responsibility for energy and environment

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