Hoval

Belaria® pro (40-50)

Heat pump solution with a natural refrigerant for residential dwellings

Quiet | High flow temperature | Highly efficient



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- **Natural refrigerant**
- **Quiet**
- **High flow temperature**
- **Highly efficient**

The solution for the energy transition in residential dwellings

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 restrictive standards? Any answers always represented a compromise. That is no longer the case.

The Belaria® pro (40,50) air/water heat pumps from Hoval offer everything that the beating heart of a futureproof solution for multi-storey residential dwellings requires: a natural refrigerant, a high flow temperature and quiet, cost-effective operation.

A+++ (A+++→ D)

A+++ (A+++→ D)

CleverCool inside

EnergyManager PV smart

Natural Refrigerant

The whispering heat pump

A difference of just a few decibels can be crucial in deciding whether a system can be approved. When it comes to sound, the Belaria® pro (40,50) scores top marks. One of the reasons for this is the large evaporator with a low pressure drop. Its sound pressure level at a distance of 5 m is just 36 dB(A). This is equivalent to the noise produced by a fan in a room.

The two models with identical designs feature clever details such as the vibration-damping feet with effective structure-borne noise decoupling as standard. They "swallow up" vibrations, which makes the units highly suitable for installation on a roof. The air is expelled horizontally. This means that there is no detrimental impact on the upper storeys of a building if the unit is installed on the ground.

When the unit is in operation, it does not disturb the people who live in the residential development or the neighbours.

High flow temperature for renovation projects and domestic water heating

Existing buildings have a level of insulation that is inferior to that of modern residential developments and often distribute the heat inefficiently via radiators. With its high flow temperature of 70°C, the Belaria® pro (40,50) is also ideal for renovation projects on these kinds of buildings, with no need to install additional systems.

What is more, this flow temperature makes it easy to provide domestic water heating.

Highly efficient for low operating costs

The Belaria® pro (40,50) operates highly efficiently and meets the criteria of the highest energy efficiency class A+++ for both low-temperature and medium-temperature applications. It is able to do this not least due to its modulating compressor, which only ever consumes the power that it actually needs.

The "seasonal space heating energy efficiency" indicates how much primary energy and auxiliary energy is actually required to produce a kilowatt hour of heat. This is where the Belaria® pro (40,50) achieves a top score in its performance class with a figure of 210% at 35°C.

This produces a saving on operating costs of 15 to 25% compared to similar products.

Belaria® pro (40,50)
The pioneering air/water heat pump in a monoblock design that not only heats and provides domestic hot water, but also cools in the summer. It extracts heat from the ambient air and is available as a wall-mounted indoor unit with built-in TopTronic® E control.

Suitable for multiple dwelling units – new building and refurbishment.



Natural refrigerant
R290 (Propane)

Hoval Belaria® pro		(40)	(50)
Energy efficiency class “moderate climate” 35/55 °C (A^{+++}→ D)		A+++ / A+++	A+++ / A+++
Room heating energy efficiency “moderate climate” 35/55 °C	ηS	202 / 155	210 / 163
Seasonal coefficient of performance “moderate climate” at 35/55 °C (EN 14825)	SCOP	5.1 / 3.9	5.3 / 4.1
Min. - max. heat output for A2W35 (EN 14511)	kW	11.8 - 38.4	11.8 - 48.0
Min. - max. heat output for A-7W35 (EN 14511)	kW	11.9 - 35.4	11.9 - 44.2
Min. - max. cooling capacity for A35W18 (EN 14511)	kW	13.0 - 41.8	13.0 - 41.8
Outdoor unit sound power level (EN 12102)	dB(A)	55	56
Max. flow temperature	°C	70	70
Refrigerant		R290	R290
Dimensions of outdoor unit (height x width x depth)	mm	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

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 75 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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