

Fit and economical at the same time

Hoval Belaria® fit heat pump: the right solution for every large-scale project

Hoval is now offering the market an efficient heat pump for mid-range operation: the new Belaria® fit air/water heat pump is available with two performance levels. It can be operated at up to 1.4 megawatts either as a standalone unit or cascaded as part of a modular configuration – including in hybrid systems.

Warm in summer, cold in winter – the required heating and cooling capacity of a building changes with the seasonal temperature fluctuations.

The Belaria® fit air/water heat pump optimises its output to meet prevailing heat demand. As a standalone unit, it is capable of reaching heating outputs of up to 85 kW. The inverter technology used enables this capacity to be modulated in the range from 40 to 100%. This means that both heating and cooling capacity are optimised to meet prevailing requirements and the power consumption of compressors and fans is reduced in partial load operation. The unit switches on and off less frequently and also works more evenly.

Modular options

“The modular concept of the Belaria® fit facilitates efficient operation adapted to meet requirements in a wide operating range: this heat pump can be operated in cascades involving up to 16 machines,” says product manager Kevin Allenspach. For example, four Belaria® fit heat pumps in a cascade are capable of adapting heat output between 38 and 340 kW to meet prevailing requirements, corresponding to a modulation range of 1 : 9.

Multiple Belaria® fit units in a cascade also increase operational reliability through both redundancy of heat generators and the flexibility and scalability of the modular system. Hybrid systems to which the Belaria® fit is added in combination with an additional heat generator for peak output offer particularly attractive price/performance ratios. This means that the unit is also suitable for hybrid renovation solutions.

Hybrid systems with renewable energy

Hybrid solutions delivering ecological and economic benefits which also comply with specifications for renewable energy quotas can also be planned with the Belaria® fit.

“The use of the Belaria® fit in a hybrid system – together with an UltraGas® boiler, for example – enables an annual energy consumption of approximately 80% to be achieved by the heat pump with just 50% heating load,” product manager Kevin Allenspach goes on to explain. In addition to the benefits of efficient operation, this makes eligibility for public funding a possibility.

Sustainable refrigerant

The Belaria® fit operates with R32 refrigerant. The favourable greenhouse properties of this refrigerant make it a solution that is fit for the future. Moreover, the volumetric refrigerating capacity of R32 is very high – approx. 1.6 times higher than that of R410A refrigerant, for example – enabling the unit to achieve high levels of performance in both cooling and heating operation.

A hydrophile coating on the evaporator blades improves cleaning, increases heat exchange performance and reduces defrosting time. This coating also protects the evaporator against corrosion and seawater.

As well as benefiting from efficient, modular and economic operation, Belaria® fit customers also have the advantage that Hoval is able to design and deliver all of the components of the heating system.

About 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 consultation and comprehensive customer service. With around 2300 employees in 16 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.

Hoval online:

www.hoval.com

Contact for queries:

Liechtenstein

Rolf Ausserer
rolf.ausserer@hoval.com
Tel.: +423 399-2726

Hoval Aktiengesellschaft

Austrasse 70
9490 Vaduz, Liechtenstein
Tel.: +423 399-2400
www.hoval.com

Austria

Christina Thiele
christina.thiele@hoval.com
Tel.: +43 50 365-5151
Fax: +43 50 365 99-5151

Hoval Gesellschaft GmbH

Hovalstrasse 11
4614 Marchtrenk, Austria
Tel.: +43 50 365-0
www.hoval.at

France

Marie Riehl
marie.riehl@hoval.com

Hoval SAS

Parc d'Activité de la Porte Sud
Bâtiment C – Rue du Pont au Péage
67118 Geispolsheim, France
Tel.: +33 388 60 39 52
www.hoval.fr

Switzerland

Mark Appel
mark.appel@hoval.com
Tel.: +41 44 925 63 83

Hoval AG

General-Wille-Strasse 201
8706 Feldmeilen, Switzerland
Tel.: +41 (44) 925 61 11
www.hoval.ch

Germany

Heike Mahler
heike.mahler@hoval.com
Tel.: +49 89 922097-128

Hoval GmbH

Humboldtstrasse 30
85609 Aschheim-Dornach, Germany
Tel.: +49 89 922 097-0
www.hoval.de

Italy

Francesca Cornali
francesca.cornali@hoval.com
Tel.: +39 35 666 1251

Hoval s.r.l.

Via XXV Aprile 1945 snc
240050 Zanica (BG), Italy
Tel.: +39 35 6661111
www.hoval.it

Images / preview:



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*Belaria® fit has been designed for a variety of large-scale standalone and hybrid applications.
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*Hybrid systems for high outputs: Belaria® fit and the UltraGas® condensing boiler.
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