

HEAT PUMPS, VENTILATION TECHNOLOGY AND SOLAR HEATING

Alpha-InnoTec – a systems provider in the renewable energies sector

HEAT PUMPS



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ALPHA-INNOTEC GMBH

«Using every ray of sunshine»

HEAT PUMPS

With more than 380 employees and a production capacity of up to 50,000 units a year, Alpha-InnoTec is one of Europe's leading heat pump manufacturers.

Based in Kasendorf in the German region of Upper Franconia, the company has also been producing and distributing a wide range of solar heat collectors since 2008. With a view to utilising as much solar energy as possible for heating and hot water in buildings, Alpha-InnoTec has positioned itself as a systems provider in the renewable energies sector.

Alpha-InnoTec supplies heat pumps, ventilation technology and solar heating for virtually any application, from domestic dwellings to large commercial properties. The company produces heat pumps with power outputs ranging from 6 to 160 kW. The highest power model can be connected in series to create heat pump systems capable of producing up to 800 kW.

Unlike many other manufacturers in the sector, Alpha-InnoTec produces air/water heat pumps as well as brine/water and water/water variants. This allows the company to use innovative technologies to harness all sources of heat for its heat pumps.

Alpha-InnoTec heat pumps have already won many awards. Stiftung Warentest, the German consumer safety group, rated the WZS 100H as «good», emphasising its fine workmanship and user-friendly operating system. The trade fair ISH in Frankfurt 2009 also awarded its Design Plus prize to the LW 330 A outdoor air/water heat pump. Selected heat pumps are also subjected to regular and thorough tests at the independent heat pump testing centre in Buchs, Switzerland – and the Alpha-InnoTec products come out top here too.

The LWC 80 in conjunction with the new LKS 700 air channel system is the quietest indoor machine to have been tested in Buchs to date. In order to guarantee top quality, Alpha-InnoTec is also regularly certified in accordance with ISO 9001 and ISO 14001.

The company's range of solar heat collectors is as wide as its range of heat pumps: from standard collectors for private households, through designer collectors in virtually any geometric form, to large-scale collectors which can be used to produce entire solar façades.

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The same can be said for Alpha-Innotec's ventilation technology, with active and passive models covering an extensive range of controlled ventilation applications in the home.

Alpha-InnoTec supplies its heating and ventilation technology to 20 European countries. It is the production market leader in the «heat pump country» of Switzerland, where almost half of all new buildings are fitted with heat pumps.

Over the last few years, the company has invested 13.5 million euros in its site at Kasendorf, Upper Franconia, where more than 380 employees ensure reliable production and outstanding service. Of course, the entire site, with buildings covering 18,600 m, is heated economically and environmentally using Alpha-InnoTec heat pumps.

Under the slogan «Using every ray of sunshine», Alpha-InnoTec has developed clear technical advantages which are evident to both fitters and end customers: simple and fast installation, greater comfort and considerably reduced heating costs.



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Design Plus award for Alpha-InnoTec air/water heat pump

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Alpha-InnoTec has made a name for itself in the industry in recent years thanks to the innovative design of its heat pumps. The extraordinary design of the LW 330 A, an outdoor air/water heat pump, has now earned the company a Design Plus award.

The Design Plus award is sponsored by the trade fair ISH Frankfurt in conjunction with the German Design Council, one of the world's leading centres of excellence for communication and knowledge transfer in the design sector, and awarded to manufacturers in the sanitation and HVAC industry every two years. Winning products feature an intelligent combination of functionality and aesthetics. The official awards ceremony was held in Frankfurt on 10 March at ISH, the world's leading trade show.

Alpha-InnoTec LW 300A - a sculpture-like heat pump

In 2009, the LW 330A outdoor air/water heat pump from Alpha-InnoTec was among the prize-winners. The design of the LW 330A breaks new ground by steering away from angular, technical forms and embracing organic lines that blend seamlessly into the living environment. With its innovative design, the unit is a standalone outdoor design element. In short, the heat pump has taken on the air of a sculpture. The clear, eye-catching design is instantly recognisable and was developed in conjunction with Gerhard Kampe, Professor of Integrated Product Design in the Department of Design at Coburg Technical College.

Aesthetics and functionality

Intelligent design is always a question of combining aesthetics and functionality, and the technology of the Alpha-InnoTec heat pump is equally impressive. The LW 330A can be installed outdoors and obtains up to 70% of the heat energy required from the ambient air, meaning that it can be used almost anywhere without any need for prior groundwork. As such, the air/water heat pump cuts a particularly impressive figure for renovation work. With a heat output of 33 kW, even relatively large buildings can be heated cost-effectively.



The design of the LW 330A from Alpha-InnoTec has received the Design Plus award.

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Air/Water Heatpump Compact

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With its LWC range of 6 and 8 kW-rated pumps, developers at Upper Franconian manufacturers Alpha-InnoTec have set new standards for air/water heat pumps and set the benchmark for efficiency and noise reduction.

These compact indoor devices feature a COP rating of 3.5 at A2 / W35 in accordance with EN 14511, giving them the best energy performance in the market. Readings taken by the European Heat Pump Testing Centre in Buchs also give these units top marks in terms of sound insulation at just 46 dB(A).

Perfectly coordinated system

Such high scores are not only achieved by the intelligent sound insulation of the actual heat pumps, but also by using the new Alpha-InnoTec Air Duct System (LKS), which is perfectly tailored to the devices in the LWC range. The double-wall construction gives the air channel optimum heat and insulation performance.

The air duct system offers a slot-in design and can be installed with virtually no tools. All the components, from the leaf protection grille to the screwless connection to the heat pump, are single-sourced and fit together seamlessly, making the Alpha-InnoTec air channel system quick and easy to install.

Quick fitting

Fitting the LWC air/water heat pump is also a quick and uncomplicated procedure. C stands for «compact», which means that all the important hydraulic components are already fitted into a compact casing. The side for the air outlet can be chosen on site, giving the heating engineer flexibility during installation. The commissioning wizard for the new controller speeds up the commissioning process.

Intelligent controller with network connectivity

All devices in the LWC range are controlled by the new «Luxtronik 2.0», which offers a USB connection for feeding in and reading out data via a USB stick. The traditional LAN connectivity allows for control and remote maintenance over the Internet.

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Heat output recording and energy-efficient pump

As set out in «EEWärmeG», Germany's Renewable Energies Heating Act, the LWC range of air/water heat pumps can be fitted with a heat output recording device and an energy-efficient pump. Under certain circumstances, the devices may also qualify for a grant in line with the market incentive scheme. Units can easily be connected to solar heat collectors, making them eligible for a special grant, since the Luxtronik 2.0 controller can also control the solar heat system.



The LWC air/water heat pumps and the LKS air channel system from Alpha-InnoTec form a perfectly coordinated system, which is easy to install and cost-effective to run.

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Heatpump Performance

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Alpha-InnoTec's Professional range has been designed to heat even large properties using heat pumps. The brine/water and air/water large-scale heat pumps in this range feature ratings from 33 to more than 100 kW. The largest brine/water unit is rated at 160 kW, making it one of the highest-performance production brine/water heat pumps. A maximum of four units can be connected in series to achieve a power output of up to 640 kW.

As is usual for Alpha-InnoTec units, the heat pumps in the Professional range are highly efficient, with a COP of up to 4.4. The devices use over 80 percent freely available ground heat in order to heat buildings. And for large properties, that is a lot of energy!

For cooling as well

The Professional series units are not only ideal heat generators for larger properties, they can also utilise the cool stored in the ground for passive cooling by diverting the brine liquid through an additional heat exchanger. The cool brine liquid is fed through a concrete floor to provide gentle cooling in the room, a concept referred to by specialists as «concrete core activation». This means that Alpha-InnoTec large-scale heat pumps can also be used for economical and environmentally friendly cooling.

Remote monitoring via the Internet

Since smooth operation is particularly important in the property sector, the Professional range large-scale heat pumps have been fitted with the new Luxtronik 2.0 controller. This network interface allows devices to be monitored and maintained via the Internet. The Luxtronik controller also allows connection to BUS building automation systems using the UDP protocol.



The large-scale heat pumps in the Alpha-InnoTec range are now operating reliably in many large buildings. Swimming pools and hotels can be heated as efficiently as office buildings. Even the German Federal Ministry for Nature Conservation in Bonn has opted for Alpha-InnoTec's high-performance professional solutions .

At 160 kW, the SWP 1600 is one of the highest-performance production brine/water heat pumps. It can be maintained and operated via the Internet.

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