

Heat pumps Catalog



Airwende Umwelttechnik
Heat pump catalog
2024 / 2025.



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to add our **contact details** !



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Airwende is your competence partner for **environmental technology**

At Airwende Umwelttechnik, we are committed to advancing the energy transition through innovative and robust heat pump solutions. Our goal is to provide households with efficient, sustainable and future-oriented heating systems that significantly reduce CO₂ emissions while lowering energy costs.

We strive to make the transition to environmentally friendly heating solutions as easy as possible for our customers through advanced technology, comprehensive advice and excellent service.

Together we are working towards a more sustainable future where efficient heating and environmental protection are at the heart of everything we do.



AIRWENDE

R32 series



Proven standard technology

The Airwende R32 series comprises heat pumps that use the innovative refrigerant R32. This series is characterized by its environmental friendliness, as R32 has only a third of the global warming potential of R410A. Another advantage is the high energy efficiency: the appliances achieve energy efficiency class A+++ in accordance with EU regulations and use inverter technology for additional energy savings. They are operated using the user-friendly EcoTouch panel, which offers powerful functions and can be connected to a WLAN module. The series also impresses with its quiet operation. Thanks to an optimized air duct system, it achieves a sound power level of just 52 dB(A) and a sound pressure level of 38 dB(A) at a distance of 2.1 metres. When developing the Airwende R32 series, the focus was on maximum energy savings through high SCOP values and low-noise operation. To achieve this, modern DC inverter technologies are used in various components such as the compressor, fan and water pump. These technical innovations contribute significantly to the success of the R32 series.



Airwende R32: Intelligent air conditioning for every room

The Airwende R32 system is a modern solution for efficient heating and cooling in your home. It automatically adapts to your needs, whether you use underfloor heating or radiators. The intelligent control system is particularly practical: you can simply set room temperatures and the system regulates everything else automatically. In vacation mode, it saves energy while you are away and ensures that it is pleasantly warm again when you return. At night, it automatically lowers the temperature for better sleeping comfort and lower heating costs. The Airwende R32 is user-friendly, energy-saving and uses an environmentally friendly refrigerant. It offers you optimum comfort with minimal maintenance – a reliable choice for modern households.

All-in-one Systems

All-in-one systems are split systems that integrate a water tank in their indoor unit. With this design, it is no longer necessary to install an additional water tank in the building. Our All-in-One system comes with an integrated water tank with a capacity of 250 liters.

Model - AWHP-...	6APAS-R2B1	9APAS-R2B1	12APAS-R2B1
Max. Heating cap.	6,5 kW	9,2 kW	11,6 kW
Max. Cooling cap.	7,4 kW	9,5 kW	9,8 kW
Voltage	230 V	230 V	230 V
Price excl. VAT	9.625 €	10.123 €	10.338 €

Model - AWHP-...	15APAT-R2B1	19APAT-R2B1
Max. Heating cap.	15,5 kW	18,5 kW
Max. Cooling cap.	18,5 kW	19,3 kW
Voltage	400 V	400 V
Price excl. VAT	12.876 €	13.166 €



Split Systems

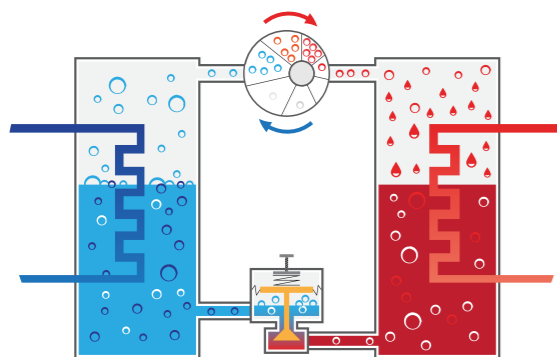
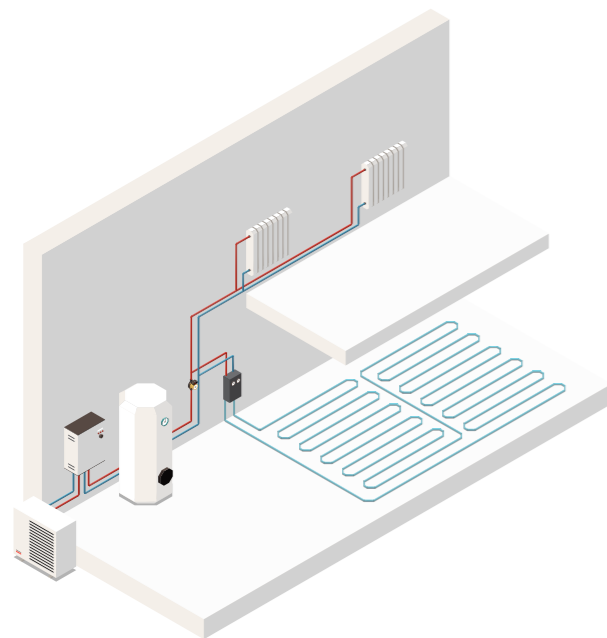
Model - AWHP-...	6SPAS-R2B1	9SPAS-R2B1	12SPAS-R2B1
Max. Heating cap.	6,5 kW	9,2 kW	11,6 kW
Max. Cooling cap.	7,4 kW	9,5 kW	9,8 kW
Voltage	230 V	230 V	230 V
Price excl. VAT	6.416 €	7.333 €	8.005 €

Model - AWHP-...	15SPAT-R2B1	19SPAT-R2B1
Max. Heating cap.	15,5 kW	18,5 kW
Max. Cooling cap.	18,5 kW	19,3 kW
Voltage	400 V	400 V
Price excl. VAT	10.474 €	10.984 €

Monoblock Systems

Model - AWHP-...	6MPAS-R2B1	9MPAS-R2B1	12MPAS-R2B1
Max. Heating cap.	6,5 kW	9,2 kW	11,6 kW
Max. Cooling cap.	7,4 kW	9,5 kW	9,8 kW
Voltage	230 V	230 V	230 V
Price excl. VAT	6.662 €	7.146 €	7.362 €

Model - AWHP-...	15MPAT-R2B1	19MPAT-R2B1
Max. Heating cap.	15,5 kW	18,5 kW
Max. Cooling cap.	18,5 kW	19,3 kW
Voltage	400 V	400 V
Price excl. VAT	9.892 €	10.183 €



How do Heat pumps work?

Air-to-water heat pumps are efficient heating systems that use heat from the ambient air. They can generate more heat energy than they consume in electrical energy. This high efficiency makes them an environmentally friendly and cost-saving heating solution.

Outdoor unit

The outdoor unit is the part of the heat pump that is located outdoors. Its main task is to extract heat from the ambient air, even at low temperatures. The outdoor unit contains an evaporator with a special refrigerant that absorbs the heat and changes its physical state from liquid to gas.

Compressor

The compressor is the heart of the heat pump and is usually also located in the outdoor unit. It compresses the gaseous refrigerant, causing its temperature and pressure to rise sharply. This process is crucial for bringing the ambient heat obtained to a temperature level that can be used for heating.

Indoor unit

The indoor unit is installed in the house and contains a heat exchanger. This is where the heat raised by the compressor is transferred to the house's heating system. A connected tank stores the heated water for heating and hot water requirements. In this way, the indoor unit ensures even heat distribution and a constant supply of hot water throughout the building.

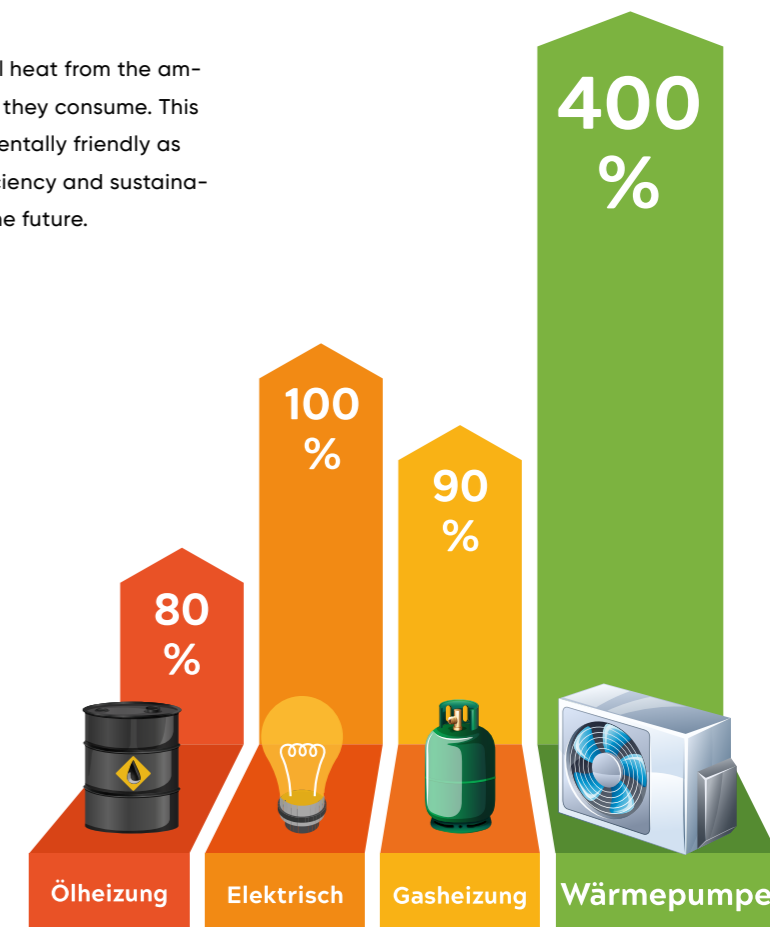


Heat pumps in comparison

Heat pumps are extremely efficient as they use natural heat from the ambient air. They can supply four times more energy than they consume. This makes them not only cost-effective, but also environmentally friendly as they significantly reduce CO₂ emissions. Their high efficiency and sustainability make heat pumps an ideal heating solution for the future.

More than 400 % efficiency

Air-to-water heat pumps are a fascinating example of modern technology, especially when you consider their impressive efficiency. These systems can achieve an efficiency of up to 450 %. At first glance, this may seem to contradict the laws of thermodynamics, as an efficiency of over 100 % appears to generate more energy than is consumed. However, this is a misunderstanding. In reality, the energy is not newly generated, but efficiently converted and transferred.



The most efficient Way To heat your premises.

Control with your smartphone.



Compatible with :
Airwende R32 series and
Airwende R290 series

Airwende heat pumps can be conveniently controlled via the WarmLink smartphone app. With this app, you can set the temperature, select different operating modes such as heating, cooling or hot water preparation and program timers. The app also allows you to check power consumption and view any error messages. Operation is simple and intuitive. You can control and monitor your heat pump from anywhere, making the use of your heating system more flexible and convenient in everyday life.



70 % subsidy • 100 % financing

Airwende supports you with all the formalities!

15 %

Zusätzliche
Förderungen und Rabatte

30 %

Einkommensabhängiger Bonus

5 %

Effizienzbonus

20 %

Klima-Geschwindigkeits-Bonus

30 %

Basisförderung



Airwende heat pumps are on the BAFA list of eligible heat pump systems.

The heat pump Specialist center in Berlin

Our center for innovative heating technology is located in the heart of the capital. Here we combine expertise, research and customer focus to help shape the future of heat supply.

Our dedicated team works on the further development of efficient heat pump systems and analyzes current market trends. We share our knowledge with experts and interested parties through regular information events and training courses.

Based in Berlin, we maintain close contacts with research institutions and support decision-makers with our expertise. Our aim is to promote the spread of environmentally friendly heating technologies and to protect the environment!



Opening hours

Mon - Fri 09:00 - 17:00

Pre-registration at

+49 30 278780611

You can find current events on our website

www.airwende.de



AIRWENDE R290 SERIES



AIRWENDE UMWELTECHNIK



R290 (propane) is a natural, energy-efficient refrigerant with low global warming potential. It is used in refrigeration and air conditioning technology. In Germany, systems using R290 receive an additional 5% subsidy to promote the use of environmentally friendly refrigerants.



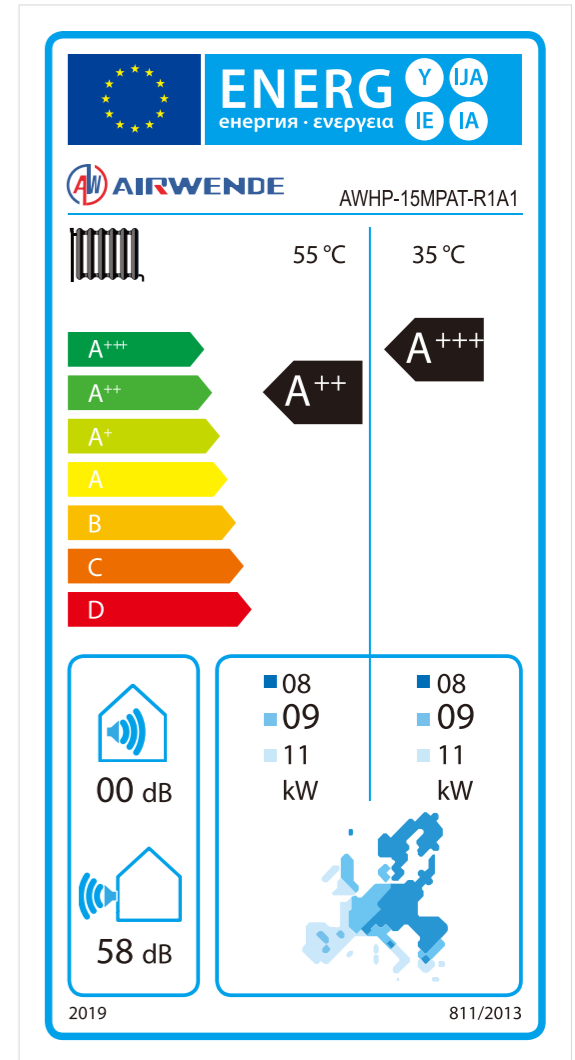
Touchscreen operation

EcoTouch has a 4.3-inch touchscreen and can control various heating appliances to optimize energy consumption. The intelligent control logic manages system components and integrates with other control systems for efficient performance. Remote control via Airwende systems is possible thanks to the WLAN module.



Highly efficient heat pumps

Our appliances with a top energy rating of A+++ are energy efficient and can significantly reduce energy costs for users.



Reliable operation down to -25°

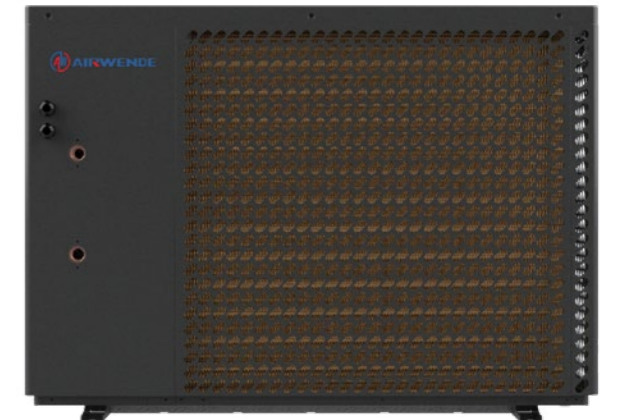
The air-to-water heat pumps in the Airwende R290 series master even the harshest winter conditions with ease. Thanks to the perfect combination of the environmental-friendly refrigerant R290 and state-of-the-art inverter technology, our appliances guarantee a reliable and efficient heat supply down to an outside temperature of -25°C.

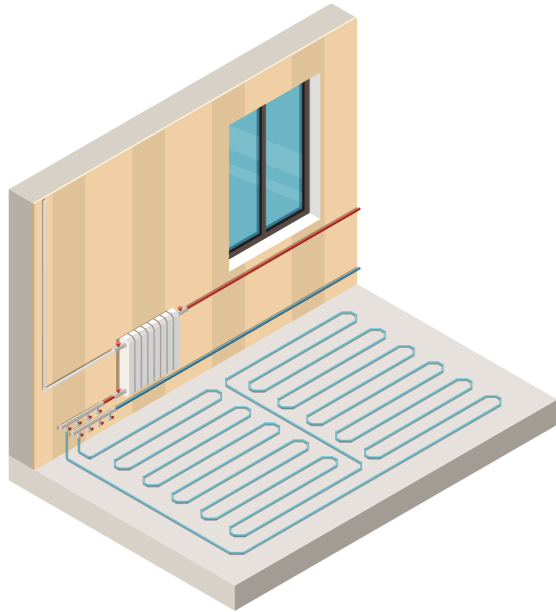
R290 Systems



Model - AWHP-...	8MPAS-R1A1	15MPAS-R1A1	15MPAT-R1A1
Max. Heating cap.	9,8 kW	14,9 kW	14,9 kW
Max. Cooling cap.	5,7 kW	10,5 kW	10,5 kW
Voltage	230 V	230 V	380 V
Price excl. VAT	7.707 €	9.411 €	9.798 €

Model	AWHP-22MPAS-R1A1	AWHP-22MPAT-R1A1
Max. Heating cap.	22,0 kW	22,0 kW
Max. Cooling cap.	15,0 kW	15,0 kW
Voltage	230 V	400 V
Price excl. VAT	12.787 €	13.174 €



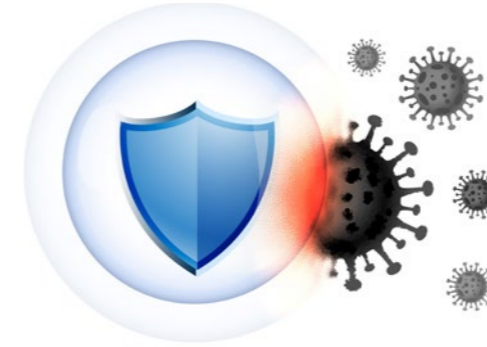


Intelligent energy-saving functions

Airwende heat pumps offer clever solutions for saving energy. The heating curve function automatically adjusts the water temperature to the outside temperature - so the heating is never too high. The pump works more economically on warm days and heats more when it's cold. The vacation mode is particularly practical: it keeps your home frost-free without consuming unnecessary energy when you are away. Back from vacation? No problem, the heat pump will ensure a comfortable temperature again in good time. At night or when you are out of the house, the pump automatically lowers the temperature slightly - you hardly notice it, but you save a lot. The hot water is also heated intelligently: the pump selects times when it works particularly efficiently. This keeps your energy costs low without you having to compromise on comfort.

Two temperatures, one system

The new heat pumps from Airwende allow two different temperature settings for heating water. A low temperature is intended for underfloor heating, while a high temperature is used for radiators. The system automatically switches between these settings. It uses the high temperature when necessary. As soon as no more hot water is needed, it switches to the low temperature. This saves energy and costs, as heating is not always at the highest temperature.



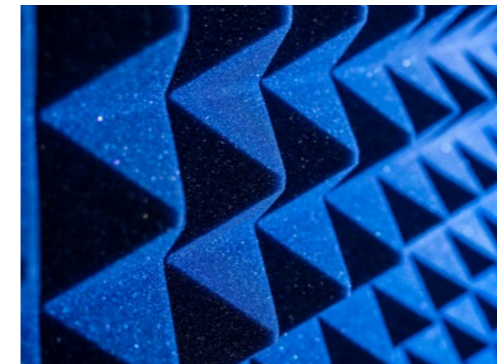
Automatic disinfection

Legionella are dangerous bacteria that multiply in hot water. To kill them, the hot water cylinder must be regularly heated to over 60°C. Airwende heat pumps carry out this disinfection automatically.



Smart Grid Ready

SG Ready heat pumps are 'grid-friendly'. They can communicate with the electricity grid and adapt their operation to use electricity when it is cheap and plentiful. This saves costs and supports the efficient use of renewable energy.



Noise reduction

Airwende's R290 series relies on advanced noise reduction technology for maximum user comfort. A special suspension system minimizes vibrations, while sound-absorbing material encases the housing. These carefully optimized solutions ensure exceptionally quiet operation.

We are happy to
advise you
personally

Our hotline
+49 30 278780611



Trade fairs and events

Airwende Umwelttechnik GmbH is represented at all major trade fairs to present its innovative heat pumps. Highlights include Intersolar, Hannover Messe and NordBau.

At these events, we were able to make numerous valuable contacts and expand our network in the industry.

We recommend that you visit our website regularly to stay informed about our current trade fair participations. There you will find all the information about upcoming trade fairs and events where you can meet us in person.

Visit our website: www.airwende.de





**We rely on proven and ro-
bust Technology**



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