

NATURALSUN

Natural Circulation Kit

AR200CN AR300CN



Solar Keymark certified Factory Made system

The quality of the KIT is guaranteed by the Solar Keymark certification, an official recognition of compliance with international performance and safety standards. This guarantee gives users the certainty of a product that complies with industry regulations.



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thanks to integration of advanced technologies that optimise heat transfer. The kit's components are designed to minimise energy losses, allowing water to be heated quickly and evenly.

highly professional solution not only contributes to significant savings in energy costs, but also ensures a reduction in environmental impact, making the kit a sustainable choice for water heating.

FEATURES AND BENEFITS

Rapid Hot Water Supply

You no longer need to wait to enjoy a hot shower. With **NATURALSUN**, hot water is available almost instantly, significantly improving daily comfort and reducing waiting times.

Pressurised and Safe System

Thanks to the pressurised system, performance is optimal at all times. In addition, the high-performance manifold ensures safe operation even under the most extreme conditions.

Summer efficiency without overheating

One of the main advantages of this kit is its ability to avoid overheating problems during the summer season.

This means that you can enjoy an efficient and reliable system all year round without interruption.

Long Life and Low Maintenance Costs **NATURALSUN** is built to last. In addition to the robustness of the materials used, the low maintenance costs will save you money in the long run, ensuring a smart and sustainable investment.

Guaranteed water purity

The separate circulation of heating water and hot water used daily is a key feature that ensures the purity of the water you use every day. This innovative system gives you clean and safe water at all times.

Simple and efficient system

The design of **NATURALSUN** is conceived for easy installation and maintenance. Thanks to its intuitive configuration and pre-assembled components, the user can easily implement the system, minimising installation time and costs.

Weatherproof covering

Every component of **NATURALSUN** is designed to withstand adverse weather conditions.

The cover is made of high-quality materials that protect the system from damage caused by rain, snow and UV rays, ensuring a long service life and optimal performance over time.

Immersion heater and magnesium anode integrated in the boiler

The system is integrated with an electric immersion heater. This feature provides an additional hot water booster during periods of low solar radiation, ensuring a constant and reliable supply of hot water in all weather conditions.

The magnesium anode is a key component for the protection and longevity of the water heating system and plays a crucial role in preventing corrosion of the tank and other metal parts in contact with water.

ECONOMIC SAVINGS

NATURALSUN is a cost-effective choice in several . . . , by solar energy, a completely free and renewable resource, the system drastically reduces the costs of the electricity or fossil fuels needed to heat the water.

This results in a considerable reduction of monthly energy costs, making the kit an investment that pays for itself over time.

In addition, due to the high efficiency of the system, users can access the incentives provided by the system, thus eliminating all initial investment costs.



Versatile Installation

The installation of **NATURALSUN** is designed to be extremely versatile, thanks to its universal fixing system. This feature allows the kit to be adapted to a variety of configurations and building types, whether residential or commercial. Whether the roof is flat or pitched, the fastening system allows for simple and intuitive assembly, reducing installation time and ensuring long-lasting solidity. With this approach, installation is not only efficient, but also accessible for different types of users, making the **NATURAL CIRCULATION KIT** an ideal choice for those seeking flexible and reliable solutions.

Sloping Roofs

For pitched roofs, installation requires careful consideration the slope of the plane and orientation with respect to the sunlight source. The panels are mounted to follow the slope of the roof, optimising the capture of solar energy throughout the year. It is also essential to evaluate the drainage system, as the geometry of the roof will influence rainwater collection and runoff. Fixing accessories must be chosen to ensure that the panels remain securely in place, while allowing thermal expansion and material movement.

Flat Roofs

On flat roofs, the system can be installed directly on the surface, using specially designed supports to optimise the inclination of the panels, thus mas- simulating exposure to the sun and improving the efficiency of water heatingIt is essential to adopt appropriate fixing systems to ensure the stability of the kit, taking into account local weather conditions and wind load. Furthermore, the horizontal arrangement of the panels allows for a harmonious integration with the aesthetics of the roof, minimising visual impact.

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expenses incurred for energy efficiency, making the investment more affordable. Deduction percentages can vary depending on the type of intervention and the date of realisation, with a particular focus on projects that demonstrate a significant improvement in the energy efficiency and environmental sustainability of buildings.



In addition, there is the possibility of accessing state or regional subsidies, dedicated to promoting the use of renewable energies. These subsidies can supplement tax deductions and offer direct financial support for the implementation of systems such as **NATURALSUN**, thus helping to further reduce installation costs and incentivising owners to switch to greener solutions.

It is essential to find out from the competent bodies about the availability of these incentives and to follow the correct procedures to ensure access to them.



Conclusion

NATURALSUN is the ideal solution for anyone looking for an efficient, safe and easy-to-install water heating system. With its numerous advantages and advanced technology, it represents a step towards superior home comfort and responsible use of energy resources. Choose the best for your home or business, choose **NATURALSUN**.

PLANT COMPOSITION:

	<p>AR200CN</p>	<p>It consists :</p> <ul style="list-style-type: none"> - No. 1 2.5 m² solar collector - Solar water heater 200lt natural circulation - Flat roof/sloping roof frame for 1 collector - Hydraulic connection kit - Supplementary electrical resistance
	<p>AR300CN</p>	<p>It consists :</p> <ul style="list-style-type: none"> - No. 2 solar collectors of 2.0 m² - Solar cylinder 300lt natural circulation - Flat roof/sloping roof frame for 1 collector - Hydraulic connection kit - Supplementary electrical resistance

SELECTION GUIDE: NATURAL CIRCULATION SOLUTIONS

Natural circulation solar solutions			AR200CN	AR300CN
		<p>Type of natural circulation solution</p>	<p>Solution with 1 collector and 200 litre storage tank Universal installation flat and pitched roofs</p>	<p>Solution with 2 collectors and 300 litre storage tank Universal installation on flat and pitched roofs</p>
<p>Needs covered geographical area</p>	<p>North - Central North</p>	<p>South - Central South</p>		
<p>Number and type of collectors</p>	<p>1 x 2.5 m² solar collector</p>	<p>No. 2 solar collectors of 2.0 m²</p>		
<p>System</p>				

TECHNICAL DATA	AR200CN	AR300CN
NOMINAL OPERATING PRESSURE	10bar	10bar
AREA OF REFERENCE	2.5m ²	2*2m ²
GLASS THICKNESS	3.2mm	3.2mm
GLASS GASKET	EPDM	EPDM
SOLAR TRANSMITTANCE	92%	92%
ABSORBER MATERIAL	Blue cladding	Blue cladding
ABSORPTION	95%	95%
DIMENSION	2000*1250*80mm	2000*1250*80mm*2
TANK DIMENSIONS	Ø520mm*1580mm	Ø520mm*1580mm
TANK WEIGHT	90kg	160kg
INNER TANK LINING	Certified Enamel	Certified Enamel
INNER TANK DIAMETER/THICKNESS	φ426/2.5±0.1mm	φ480/2.5±0.1mm
TANK INSULATION	Polyurethane / 50mm	Polyurethane / 50mm
EXTERNAL TANK MATERIAL	Painted Steel	Painted Steel
EXTERNAL TANK DIAMETER/THICKNESS	φ520/0.4mm	φ580/0.4mm
BRACKET MATERIAL/THICKNESS	Galvanised sheet metal/1.5 mm	Galvanised sheet metal/1.5 mm
BRACKET INCLINATION	18-35°	18-35°
VALVE TEMP./PRESSURE TP	85°C / 6bar	85°C / 6bar
ELECTRIC HEATING	2000W	2000W

VESUVIO 24 CONDENSING BOILER AND AR200CN 2.5M² SYSTEM AND 200LT NATURAL CIRCULATION BOILER

