



AKOTEC
S O L A R T H E R M I E

**Our expertise and the power
of the sun for your warm home**

TECHNOLOGY AND NATURE IN HARMONY



AKOTEC

SOLAR THERMIE



FOR A GREEN FUTURE

„Heating with the sun, environmentally friendly and CO₂ neutral -that is our mission. We are proud to contribute to a greener future with our work at AKOTEC. This is what we, the people of AKOTEC stand for with passion and commitment.”

Katrin Sprenger, Managing Director

ABOUT AKOTEC



Welcome to AKOTEC and solar thermal energy! We are your company for solar thermal and solar systems. Our mission is to combine technology and nature and to unburden the environment with our unique, high-quality and high-performance products. Our solar systems use the power of the sun to produce energy for water heating and solar heating. Our solar thermal systems are 100% Made in Germany. The systems are developed by us and the collectors are manufactured in our plant in Angermuende.

A POWERFUL TEAM FOR A GREEN FUTURE



At AKOTEC, clever engineers, resourceful production employees and a lot of smart minds work day by day on a CO₂-free heating world. Our employees have years of experience in the field of solar thermal products as well as plant concepts and bring this knowledge into their work with solar plants every day.

AKOTEC SOLARTHERMIE

A STORY OF SUCCESS

COMPANY FORMATION



2008



2008

Innovationspreis 2008
für die NARVA Vakuumröhren.

Vom Glaswerk zur fertigen
Hochleistungsvakuumpöhre,
HighTech „Made in Germany“.

FUTURE AV BERLIN BR



2012

INNOVATION AWARD



**WARD
ANDENBURG**

**FUTURE AWARD
BERLIN BRANDENBURG
FOR THE AKOTEC MEGA COLLECTOR**



2018

**DEVELOPMENT OF THE
MEGA COLLECTOR**



2019



2022

**LOCATION
EXPANSION**

A SUSTAINABLE EMPLOYER

We at AKOTEC think future-oriented. This applies to our products as well as to our company philosophy. Instead of "We've always done it this way", the question for us is only: "How will we do it in the future?".

Since our founding in 2008, AKOTEC has expanded significantly and with it the number of employees. In order to remain on the road to success, satisfied employees are important.

For this reason, we develop concrete measures for the satisfaction of our employees and future viability.

Therefore, since 2021, we have been taking part in the "Sustainable Corporate Culture" audit supported by the Federal Ministry of Labor and Social Affairs.



SOCIAL ENGAGEMENT

FOR A GREEN FUTURE

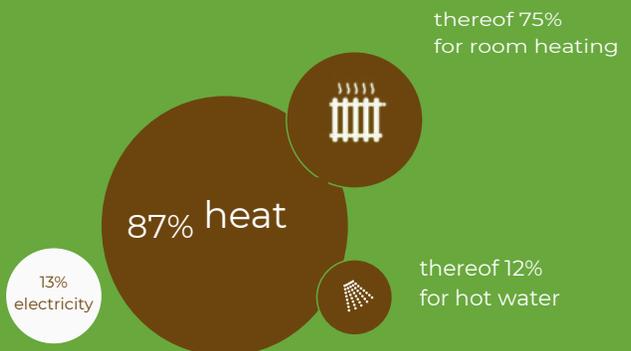


Children are the future of this world. Therefore, AKOTEC has been committed to joint partnerships with regional schools and projects for many years. In this way, we can bring the importance of a green future closer to the youngest. We want to strengthen our children and sensitize them to environmental issues.

WHY HEAT WITH THE SUN?

The term solar thermal energy describes the possibility of using the sun as a free source of energy. The solar energy is converted into heat and used for domestic water heating and heating. This saves raw materials such as oil, gas or coal. This not only protects the environment, but also your wallet. We have been active in the field of solar thermal energy for many years.

WHAT IS ENERGY USED FOR IN THE HOME?



THE SUN SENDS NO BILL

Anyone who heats with the sun ensures maximum independence from rising energy prices and energy suppliers. Increasing oil and gas prices mean that more and more homeowners are investing in solar heating. The high-performance vacuum tube collectors from AKOTEC have proven to be particularly powerful and efficient. These systems can be combined with any imaginable heat generator, for example a wood boiler, a heat pump or a gas condensing boiler. By retrofitting a gas or oil heating system with solar collectors, its energy consumption can be significantly reduced. Anyone who counts on the power of the sun in existing buildings can save between 30 and 50 percent energy. Up to 100 percent solar heating is even possible in new buildings.

SOLAR SYSTEMS PROTECT THE PLANET

Solar thermal energy is a technology that homeowners not only use to permanently reduce energy costs, but also protect the environment and the climate at the same time. The sun shines emission-free and free of charge and produces green, CO₂-neutral heat.

A solar system from AKOTEC protects your wallet and the environment.

9.072
tons CO₂
saved by
AKOTEC



OVERHEAT PROTECTION

AKOTEC collectors of the product line "Weiser Protect" are the safest heat pipe collectors worldwide, due to a unique, purely physically controlled shutdown temperature of 100 °C.



HAILSTORM SAFETY

Our full vacuum tube collectors have been tested by TÜV Rheinland. They were subjected to the hailstorm test, have successfully passed and have been tested and awarded a prize.



EASY ASSEMBLY

Our products are characterized by a simple, fast and almost tool-free one-person assembly.

WARRANTY

The outstanding quality of our products, which are 100% manufactured in Germany, speaks for itself. Our 20 year warranty is a proof of this.



FULL VACUUM TUBE

Our full vacuum tubes are made in Germany and this is unique! Our NANO-coated vacuum tubes combine highest performance with outstanding quality.



DESIGN

AKOTEC solar systems fit well into the building architecture and can be visually staged. At an angle, on the facade or on the lawn. Due to the flexible mounting options of our collectors, the possibilities are manifold.



THE AWARD-WINNING COLLECTOR FOR LOCAL AND DISTRICT HEATING NETWORKS:

THE MEGA COLLECTOR

The MEGA collector is a large collector. It was specially developed for solar thermal local and district heating applications as well as process heating systems. Collector segments up to 250 m² can be interconnected without additional piping. The physically switching off heat pipe tubes prevent overheating, steam formation and the resulting cavitation shocks.

Advantages of the Mega collector



**large collector areas
without additional piping**



**completely pre-assembled
collector segments that are
connected to one large
collector**



**robust glass-metal
connection**



high resistance to hailstorms



**awarded with the
innovation award
Berlin-Brandenburg 2019**

**MEGA collector system for the generation
of district heating in Pirna, Germany**





THE WORLD'S SAFEST COLLECTOR: WEISER PROTECT FROM AKOTEC

The heat pipe tubes of the Weiser Protect collectors have an integrated physical protection against overheating at 100°C. They offer a permanent protection of the vacuum through a patented glass-metal connection. The weather-resistant nano-coating prevents sticking dirt. The tube is connected via a plug-in connection based on the heat pipe principle. So you can always enjoy the sun carefree and safely.

The energy gained is used for hot water preparation and/or heating support. In the summer months, it is not uncommon for an excess of heat to be produced. In order to avoid damage to the solar system, the Weiser Protect collector switches off automatically when no more heat is required.



100°C physical overheat protection



diverse mounting options



100% Made in Germany



Unique functional principle

The heat pipe tubes of the Weiser Protect collector have a unique, integrated overheating protection, making them the safest collectors in the world. Each individual tube switches off automatically at a temperature of 100°C. This operating principle protects the solar system from overheating even in the event of a power failure and is unique on the market.

This unique technology allows the solar expansion tank and the storage tank to be smaller in size, saving investment costs. The temperature limitation of the tube prevents dangerous steam hammering, also called cavitation, during system shutdown. The components are thus not subject to wear. Due to the low thermal load, the heat transfer fluid also has a longer shelf life.

Owners of a Weiser Protect collector not only have peace of mind, but also a product with 25 years of consistently high yields.

ONE COLLECTOR - COUNTLESS POSSIBILITIES

WEISER POWER

Not every house has enough roof space for a solar thermal system. But AKOTEC also has the right solution for this.

Thanks to their diverse installation options, the Weiser Power tube collectors can be used flexibly. In addition to being installed on a sloping roof, the direct flow collectors can also be installed flat on the façade, on the balcony parapet or as a roof over the entrance or terrace. Alternatively, they can also be set up freely in front of a wall or, for example, as a privacy screen at the property line.





THE WORLD'S ONLY SUPPLIER OF REPLACEMENT TUBES OF VARIOUS MANUFACTURERS

In addition to our own solar collectors, we produce replacement tubes for collectors from well-known manufacturers.

Vacuum tube collectors from manufacturers who have stopped their production can be found on numerous roofs around the world. After decades of use, old tubes can lose their efficiency. The frequency and intensity of storms are also increasing worldwide. This can definitely lead to damage to the vacuum tubes.

The fact is, even the older collector systems have a right to exist and can once again deliver the yields they once achieved by simply replacing the tubes.

At AKOTEC you can buy suitable replacement tubes for a wide variety of tube collectors and do not have to replace the entire system directly. This saves time, money and resources.

AKOTEC is the only supplier of replacement tubes worldwide for many well-known manufacturers of solar thermal collectors.

**MADE IN BRANDENBURG,
FOR HAPPY CUSTOMERS AROUND THE WORLD**



**Single-family house in Meppen,
Germany, roof assembly,
60 heat pipe tubes,**



**Single-family house in Meppen,
Germany, roof assembly,
160 heat pipe tubes,**



**Single family house in Kekava,
Latvia, facade installation,
60 direct flow power tubes**



**house in Overath,
Germany**

private references

commercial references



**fruit distribution center
Oberkirch,
Solar process heat
for cooling**



**Rothaus brewery,
Solar process heat**



**Hotel Aquaturn, Radolfzell,
Germany,
heating, warm water**



**district heating network
Graz,
MEGA collector**

WE ARE HAPPY TO BE THERE FOR YOU PERSONALLY!



AKOTEC
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