

Solar Thermal Collectors

35 years of experience manufacturing effective solutions



Hewalex – a successful business partner

Hewalex is a Polish family business which has been present on the market for over 35 years. It has been the first company in Poland to start the production of solar thermal collectors, gaining Customers' trust in many European countries from the very beginning in the 1990s.

Hewalex was created by Leszek Skiba, who was driven by his passion for finding solutions which reduce the use of traditional energy sources in favour of renewable energy. His aim was to provide users with products that will generate significant savings and at the same time have a low impact on the natural environment. His philosophy and expertise allowed him to build a stable business with a strong position on the renewable energy market.

Inspired by the sun, powered by passion, committed to excellence

„Our mission is to provide customers with solutions enabling them to obtain energy from natural sources, which increase their comfort of life, sense of security and confidence that they care for our planet.”

Leszek Skiba
Founder and CEO



A reliable partner on the European market for 35 years



Team of 140 professionals



Research & Development department and Design Department




Production capacity: 1000 m² of collectors per day



Our products are present in 50 countries around the world in various climate conditions

ISO

ISO 9001 Quality Management System since 2007



B2B solutions that work for you

We started OEM production in 1993 and it plays an important role in our operations. Every piece in our product range is carefully developed to meet your high expectations.

Long-term OEM partnership with Hewalex will make your business grow

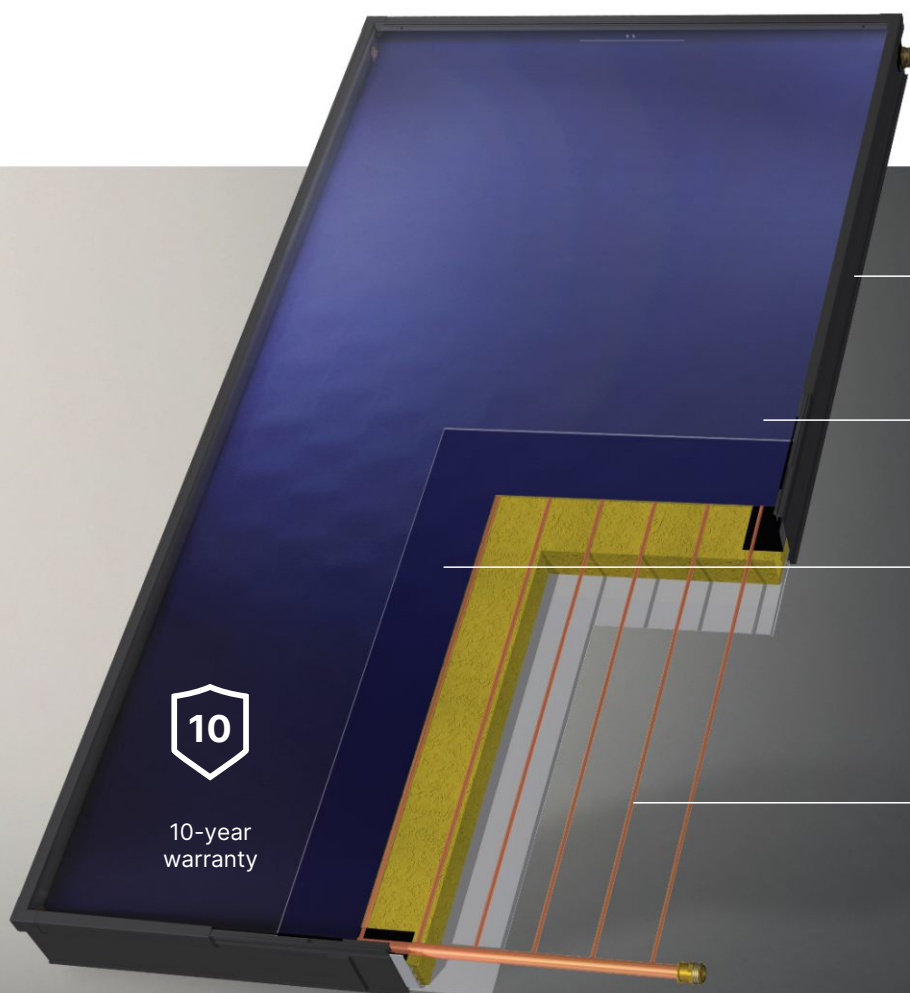
- We guarantee our Partner a dedicated manager who guides him through the entire sales process.
- We provide customer service to our Partners in English, German, Italian and Spanish.
- We assist in organising transport.
- We offer excellent export packaging of our products.
- We provide technical training in product assembly.
- We are open to talk about product modifications according to the needs of our Partners.

Solar collectors

Hewalex has specialised in designing and production of highly efficient, durable and aesthetic solar collectors for 35 years.



Hewalex collectors have one of the highest efficiency amongst the European manufacturers - annual thermal yield according to Solar Keymark is 1'385 kWh/collector (Würzburg, 50°C) for the KS2600F TLP ACR.



10-year
warranty

aluminium frame,
powder-coated, mineral
wool insulated bottom

3.2 mm tempered solar glass,
resistant to maximum hailstorms
as per EN ISO 9806

absorber consisting of an aluminium
plate with a highly selective coating
and copper piping, permanently
connected to the plate using laser
welding technology

harp absorber piping system with
headers and four connections,
ensuring easy installation
and operational safety



Thermal
compensators
for connection
of collectors



Fastening
system material:
aluminium,
stainless steel



Possibility of
connecting up
to 8 collectors
in series



Can be delivered
with a 16 mm smooth
pipe for connection
with compression fittings



Higher efficiency of ACR
collectors increases
the profitability of
the investment

Mounting system

We design and produce easy-to-install mounting systems dedicated to various types of roofs.

Brackets for sloped roof <ul style="list-style-type: none"> • Tile - H430 and H500 hooks • Metal shingle - double-threaded screw S250 • Trapezoidal sheet metal - T300 bracket • Standing seam cover - R100 bracket • Asphalt shingle - T150 bracket 	Mounting on flat roof or ground Special mounting structure	Facade fixing Specially designed frame that allows the collectors to be positioned at an angle of 45° to the horizontal when mounted on a facade.
--	--	---

Flat plate collector

Technical data	KS2100F TLP AC	KS2600F TLP AC	KS2100F TLP ACR	KS2600F TLP ACR
Gross area [m ²]	2,06	2,62	2,06	2,62
Absorber area [m ²]	1,93	2,47	1,93	2,47
Aperture area [m ²]	1,93	2,47	1,93	2,47
Dimensions (L x W x H)	2022 x 1019 x 90	2022 x 1295 x 90	2022 x 1019 x 90	2022 x 1295 x 90
Housing	Aluminium profile			
Glazing	3,2 mm tempered solar glass			
Weight (without fluid) [kg]	32,2	39,3	32,7	40
Maximum output power [W]	1550	1972	1630	2073
Optical efficiency related to the gross area [%]	76,4	76,4	80,2	80,2
Optical efficiency related to the aperture [%]	81,6	81	85,6	85,1
Absorber fluid capacity [dm ³]	0,9	1,14	0,90	1.14
Absorptivity [%]	95	95	95	95
Emittance [%]	5	5	5	5
Heat loss coefficients related to the gross area	a1 [W/(m ² K)]	3,17	3,17	3,34
	a2 [W/(m ² K ²)]	0,012	0,012	0,014
Heat loss coefficients related to the aperture	a1 [W/(m ² K)]	3,38	3,36	3,56
	a2 [W/(m ² K ²)]	0,013	0,013	0,015
Incidence angle modifier IAM 50°	0,95	0,95	0,95	0,95
Gross thermal yield at mean fluid temperature θ _m = 50° (Würzburg) [kWh]	1037	1319	1089	1385
Flow rate minimum/nominal/maximum [l/min.]	1,2 / 1,8 / 2,5	1,5 / 2,2 / 3,0	1,2 / 1,8 / 2,5	1,5 / 2,2 / 3,0
Insulation	Mineral wool			
Stagnation temperature [°C]	210	210	200	200
Maximum operating temperature [°C]	250	250	250	250
Maximum operating pressure [bar]	10	10	10	10
Heat transfer medium	Water-Glycole			
Installation tilt angle range	5° - 90°			
Guarantee	10 years			
Solar Keymark registration number	011-7S2822 F		011-7S2823 F	

Accessories

We design and produce all the elements required to complete the solar system.

Drain Back System

The Drain Back solar system is a closed system with pump-forced circulation of the heating medium. When the solar pump is switched off, the medium flows into a special tank located underneath the solar collectors.



Under suitable sunlight conditions, when the solar pump starts to operate, the collectors are filled with heating medium and the solar heat gained by the collectors is supplied to the heater.



Advantages of the Drain Back solution



The ability to run the plant in situations of strong solar radiation means a greater degree of solar energy utilisation.



Protecting the heating medium from degradation means longer system life.



The impossibility of a malfunction resulting in gravitational heat transfer from the heater to the solar collectors means greater system reliability.



Simple installation and easy filling of the system with the heating medium means less susceptibility to making a mistake.



**Dedicated to households with
a family of 3-4 persons**

System features

- The operation of the solar pump is controlled by a dedicated controller, where the operating algorithm is based on the temperature difference between the solar collector and water in the heater and the measured flow rate.
- The system has fittings that are kept to a minimum, and the only devices installed with the heater are the solar pump and the valve for filling the system.
- The pressure relief valve is built directly into the connection port of the solar collector.
- The additional tank of the system, is easily mounted directly to the solar collector.
- The set is designed for three to four people and is equipped with two KS2600F TLP AC solar collectors and a 300l heater.
- The system allows the use of standard mountings offered by Hewalex.

The **Drain Back system** includes

Solar collector

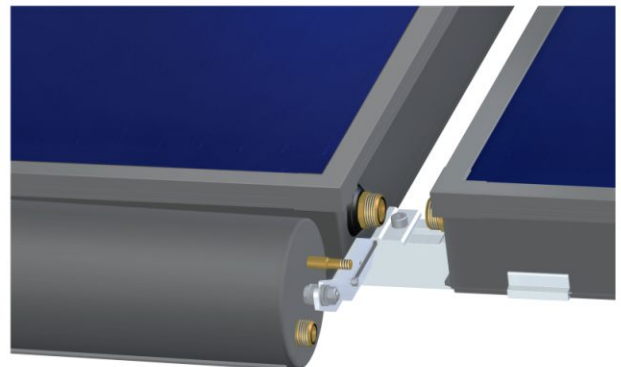
KS2600F TLP AC - 2 pcs. (5,24 m²)

- 10-year guarantee
- reliability for over 20 years
- made in Poland
- complies with Solar Keymark certification requirements



Drain Back System Tank

The additional Drain Back System tank is a unique solution from Hewalex. Mounting the tank directly under the collector allows the use of a circulation pump identical to that for a classic solar system. With a capacity of 5.6 litres and a weight of 4.5kg, the tank has been made to work with two KS2600F TLP AC collectors and a 300-litre heater, ensuring comfort for a family of three or four and covering up to 60% of the annual DHW demand.



Solar pump SHIMGE APM20-8-130T

- Control via PWM2 signal
- Reading the flow rate of a solar plant through a feedback signal
- Possibility to operate manually
- Electronics can be replaced without removing the pump from the system
- 2-year warranty

MiniSOL controller

- Innovative plug & play solution
- Fully automatic operation of the selected solar pump thanks to factory settings
- Operating the controller via a mobile app (app available for Android and IOS)

A drain-back system works in the same way as standard solar thermal panels, collecting sunlight and converting it into heat, which should be transferred to a heat exchanger inside a heater tank. The heated water is stored in the tank and can be used for domestic hot water or space heating.

ALEX HX10 MS

This latest solution combines two proven Hewalex products – the ALEX HX10 pump unit and the MiniSOL solar controller. Their factory integration during production significantly streamlines installation work, speeds up system startup, and ensures reliable operation.

Factory preassembled for **maximum benefits**

For the User:

- ✓ **Reliable performance** – factory pre-connected pump group and controller ensure seamless operation.
- ✓ **Space-saving design** – compact components optimize boiler room layout.
- ✓ **Smart control** – convenient app access from anywhere with an internet connection.
- ✓ **Modern interface** – intuitive smartphone-like screen replaces outdated LCD controllers.

For the Installer:

- ✓ **Quick & easy installation** – preassembled components save time.
- ✓ **No additional electrical work** – reduces complexity and installation errors.
- ✓ **Minimized risk of incorrect connections** – ensures reliable performance.
- ✓ **Compact design** – makes installation easier in tight spaces.
- ✓ **Low maintenance** – factory-tested, high-quality components for long-term reliability.

Effortless installation in three simple steps:

1 Connect the plumbing system



2 Wire the sensors



3 Plug it in and start the system



MiniSOL App

With the MiniSOL app, you can:

- ✓ **Monitor your solar system in real time** – keep track of its performance anytime, anywhere.
- ✓ **Adjust water heating temperature** – set your desired temperature with ease.
- ✓ **Activate additional functions** – enable vacation mode or overheating protection as needed.
- ✓ **Receive instant notifications** – stay informed about any system issues.

ZPS 18E-01 ECO

– Efficient all-in-one pump group

The **ZPS 18E-01 ECO** pump group combines a high-performance pumping system with advanced control automation, ensuring optimal operation of solar collector installations and additional heating system components. This all-in-one solution is designed for **maximum comfort and functionality**, from installation to daily use and maintenance.

Equipped with a **pressure control sensor**, the ZPS 18E-01 ECO enables early detection of pressure drops, ensuring system reliability and efficiency.



Key Features:

- ✓ **High efficiency** – engineered for maximum energy savings and performance.
- ✓ **Preassembled & ready to install** – simplifies the installation process, reducing labor time.
- ✓ **Compact design** – space-saving construction ideal for modern installations.
- ✓ **Integrated safety features** – protects against overheating and pressure fluctuations.
- ✓ **Smart control compatibility** – works seamlessly with Hewalex controllers for remote monitoring and adjustments.

Ideal for:

- ✓ Residential and commercial solar thermal systems.
- ✓ Users looking for a plug-and-play solution with minimal maintenance.
- ✓ Installers seeking a preconfigured, time-saving system.
- ✓ With ZPS18, you get a high-quality, factory-tested pump group that guarantees optimal solar system efficiency and long-term reliability.

PUMP GROUP ZPS 18E-01 ECO – Integrated control automation (G422 Series)

An universal and reliable solar controller for precise management of solar collector systems and additional devices.

Features:

- Intuitive operation with a large LCD display
- Pump selection: Fixed-speed or electronic

Connection options:

- 6 NTC10k temperature sensors
- 3 circulation pumps and/or control valves
- 2 electronic pumps (PWM)
- 2 impulse flow meters
- Pressure switch for solar system monitoring
- UPS backup for the solar circuit pump
- Supports 19+ system configurations, including heating assistance and pool water heating

Pump unit designed and manufactured by HEWALEX

ALEX HX10

Alex HX10 is an innovative pump unit which ensures the following:

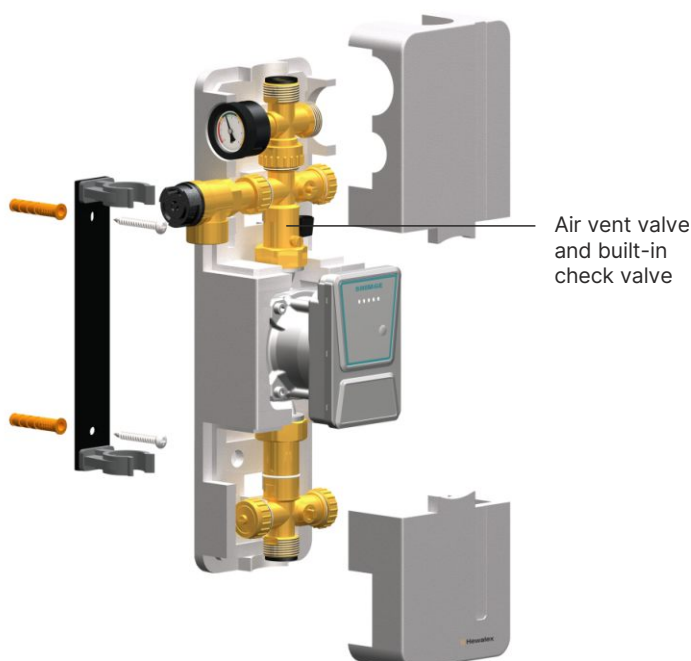
- **operational reliability** through careful selection and limiting the fittings used to the required minimum,
- **compact structure** facilitating installation in situations where space for installation is limited,
- **modular design** allowing the installer to choose the location of the pressure gauge, safety valve and connections of the solar pipe and expansion vessel and ensuring,
- **easy, quick and convenient installation,**
- **simple filling and reliable venting/bleeding** of the installation,
- **easy servicing**, limited to the replacement of only the damaged element,
- high level **aesthetics and minimalist form**,
- **minimising the negative impact on the natural environment** by reducing energy consumption at the production stage and the possibility of recycling the materials used.



Alex HX10 is a pump unit:

- designed to operate solar installations with a collector area of **up to 16 m²**,
- having **compact dimensions** (37.5x11.5 x13 cm),
- with the option to configure connection fittings, which shortens the assembly time, **improves the aesthetics of workmanship and shortens the required length of pipes**,
- **equipped with a SHIMGE pump** dedicated to solar systems, with the ability to service the electronics without dismantling the pump and interfering with the hydraulic system,
- **compatible with any solar controllers available on the market**, however the innovative **MiniSOL** controller, a product of Hewalex, is particularly **recommended**.

ALEX HX10 construction



MiniSOL controller

The MiniSOL controller is a PLUG & PLAY solution designed to control the operation of an installation in which solar collectors are connected to a single heat receiver. The controller cooperates with a circulation pump controlled by the PWMIn signal and uses the PWMout feedback signal to read the pump operating status and the current flow value.

Creating an account allows you to use driver software updates, e.g. when the manufacturer introduces new functionalities.



Via the mobile application in the MiniSOL controller you can activate:

- **holiday function** - turning off the heating during your absence and switching to the protection mode against collector overheating,
- **protection of collectors against overheating,**
- **protection of collectors against freezing** when the installation is filled with water.

For users who do not want to use the application, the operating status of the circulation pump and the flow value can be read based on the signals sent by the red and green diodes visible on the controller housing.

In the case of the MiniSOL controller, the method of installation and switching on by directly inserting it into a standard 230V power socket is also innovative.

The MiniSOL controller has been designed in a simple form and is limited in structure to only the necessary elements, primarily with ecology in mind, just as the offered ALEX HX10 pump group, which we recommend to use along with the MiniSOL controller.

The application is available for Android and iOS systems in the following languages: **EN, ES, DE, IT, PL.**

GH26 Controller

– Versatile and advanced solar control

The GH26 controller is a highly advanced solution designed to manage virtually any type of solar installation, from large-scale systems to compact setups. It efficiently supports not only domestic hot water (DHW) heating but also central heating (CH) assistance and pool water heating.

Additionally, the GH26 can integrate with external heat sources, such as boilers, water heaters, or electric heating elements. For enhanced functionality, it also allows for the connection of a pressure sensor to monitor the solar system's performance.

For the Highest Demands – Trusted Worldwide

With its advanced capabilities, the GH26 controller is designed to meet the highest operational requirements - both for solar systems and their owners and technical staff.



Used in various countries and climates, it adapts to different technical needs and offers multi-language support, allowing users to choose from 22 languages for seamless operation.

HEWALEX Sp. z o.o. Sp.k. is implementing the project "Export sales development" as part of the task "Export vouchers" implemented as part of the project "InterGlobal" – internationalization of SME sector enterprises from the Silesian Voivodeship". Project funding from the EU: PLN 161,156.88. The project is co-financed by the European Union under the European Funds for Silesia 2021-2027 program. The activity is implemented with the support of the following institutions and programs:



Fundusze Europejskie
dla Śląskiego



Rzeczpospolita
Polska

Dofinansowane przez
Unię Europejską



Województwo
Śląskie

Hewalex Sp. z o.o. Sp. K.

Słowackiego 33

43-502 Czechowice-Dziedzice

POLAND

phone: +48 32 214 17 10

export@hewalex.pl

hewalex@hewalex.pl

www.hewalex.pl