



Complete solutions
for your comfort

Hewalex a proven partner



Trust in more than 30 years of Hewalex's experience

HEWALEX is an entirely family-owned company, established in the 1990s and now managed by the second generation. It is currently the longest-established Polish company supplying complete systems using renewable energy sources (RES).



Environmentally friendly – invariably, since the company's launch

We made some of the first solar thermal collectors in the late 1980s. Even back then, we were driven by the need to respect natural resources in the future. Natural energy was, and still is, the foundation of our systems. In particular, this applies to solar thermal collectors, the most efficient equipment utilising up to 99% of the solar energy.



- Positioned as the country's leading supplier of complete solutions in the solar thermal technology, heat pumps and photovoltaics segment.
- A qualified 200-strong workforce, in-house facilities for, among other things, production, training, design and R&D, including for the implementation of non-standard projects.
- More than 1.55 million m² of solar collectors made and more than 250,000 RES installations operating in 50 countries around the world, in a variety of climatic conditions.
- Participation in international R&D projects related to the implementation of new RES technologies, e.g. cooling through solar energy.
- Certification of products to European standards since 1992 and Quality Management System to ISO 9001 standard.

Hewalex Comfort from nature

Hewalex



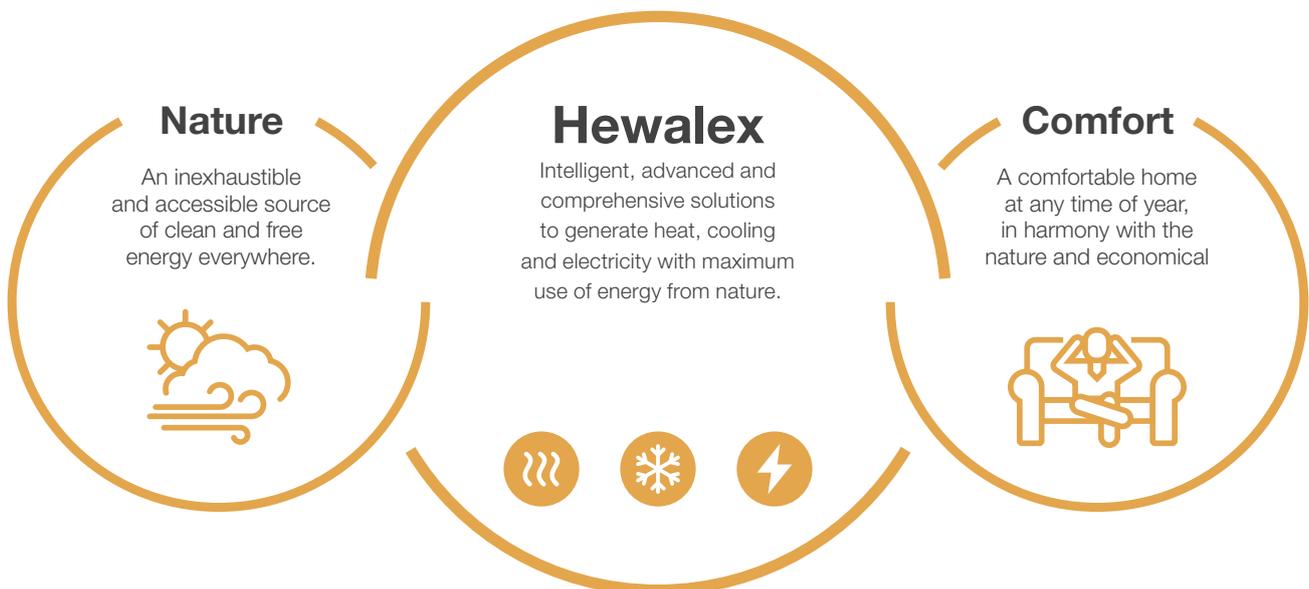
Comfort through energy from nature

One of the basic human needs is warmth. However, thermal comfort is much more than a feeling of warmth. It is also being pleasantly cool in the summer. It is also about the safety and convenience of operating technical equipment.

Energy from nature is found in our surroundings. It is inexhaustible, pure and free. It can be used to create a comfortable home environment whatever the season, with the least strain on the household budget.

In 30 years, we have helped create comfortable conditions in more than 250,000 buildings. Our state-of-the-art, end-to-end solutions generate heat, cooling or electricity with the highest efficiency. They use up to 99% of the energy from nature.

We are the essential link between nature and your comfort zone.



Comprehensive solutions

Hewalex's comprehensive solutions make it possible to supply any type of building with heat, cooling and electricity. The basis of their work is to maximise the use of energy from nature.

2 Heat pumps for heating and cooling buildings

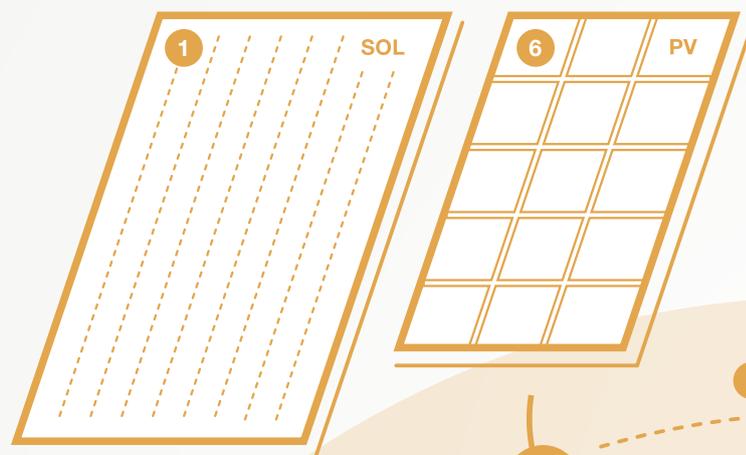
Monobloc air-to-water heat pumps for new builds and retrofits, capable of operating in outside temperature of -25°C. Highest efficiency class A+++/A++ (35/55°C).

1 Solar technology

Highly efficient solar thermal collectors, fixing systems, utility and heating water heaters, automation, pump groups and accessories also available as complete solar kits.

3 High-capacity heat pumps

High-capacity air-to-water heat pumps for generating heat and cooling for large-scale buildings. Increased supply temperatures of up to 60°C thanks to EVI technology.



ECONOMY • EFFICIENCY



4 Domestic hot water heat pumps

Modular or integrated air-to-water heat pumps. Domestic hot water heating on its own or in combination with another heat source. Highest efficiency class up to A+.

5 Swimming pool water heat pumps

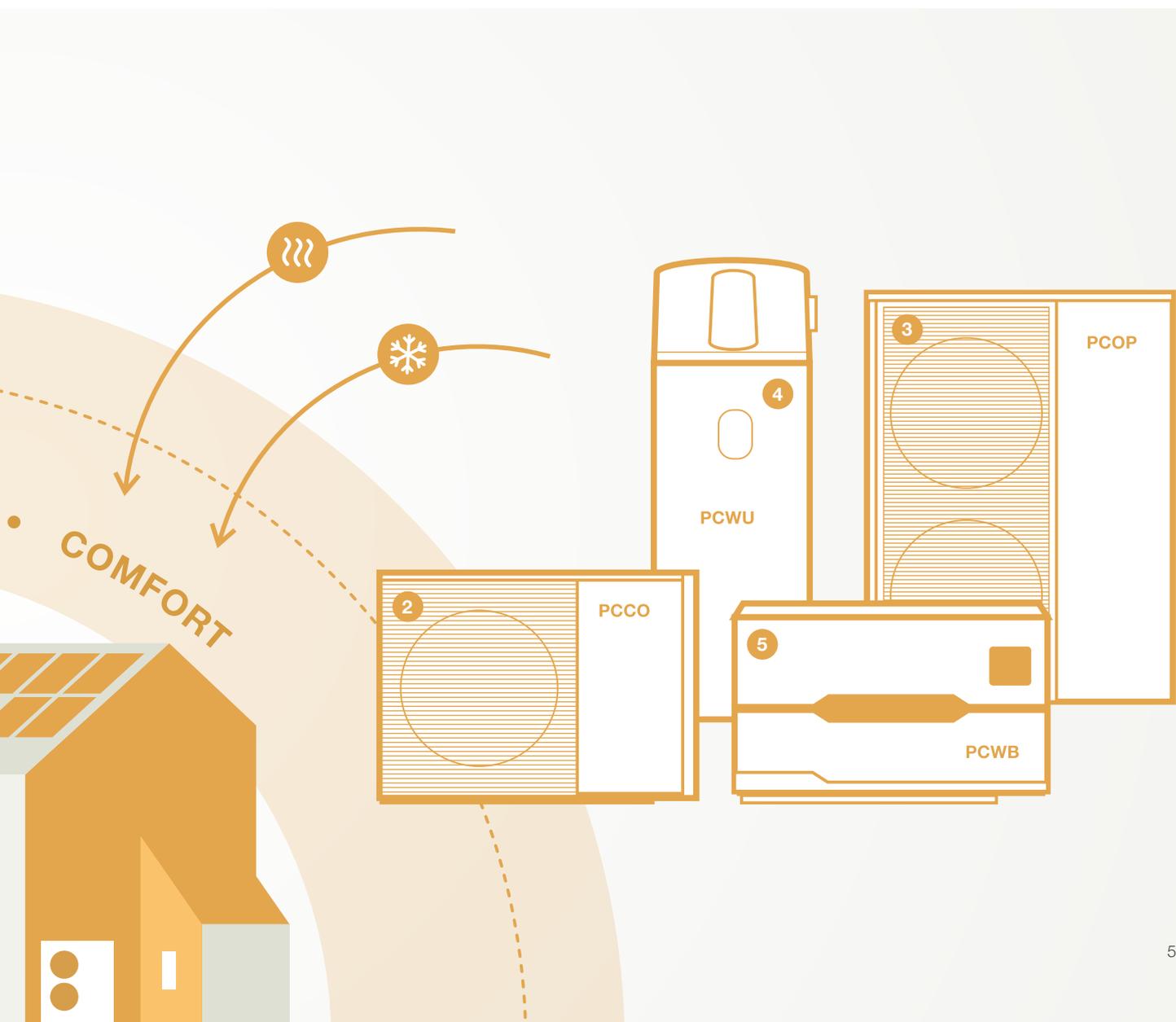
Air-to-water heat pumps for the direct heating of water in outdoor pools thanks to a special heat exchanger design made from titanium steel.

6 Photovoltaics

Photovoltaic panels, fixing systems, grid-tie inverters as well as hybrid inverters and energy storage enable a complete photovoltaic installation to be built that is tailored to the customer's needs and in line with the current economic conditions relating to, for example, rules of cooperating with the power grid.

7 OPTI-ENER - Energy management

An EMS-type system for the intelligent management of electrical equipment, taking into account the availability of its own free energy generated, for example, in the photovoltaic installation. An innovative system to increase the level of comfort and the cost-effectiveness of investments in one's own energy sources.



Solar thermal technology

The cheapest and most environmentally friendly heat

A heating system with solar collectors consumes a negligible amount of energy relative to the energy it produces. They therefore provide the lowest possible cost of heat generation, with no environmental impact.



Natural comfort through technology



High efficiency, the heat yield according to Solar Keymark is more than 1.000 kWh/year for 1 solar collector (Würzburg, 50°C).



Resistant to tough working conditions, tested to pressures of up to 2.400 Pa and to hail (Ø45 mm, ISO 9806).



Optimised design of the absorber pipework for efficient heat extraction and safe operation at high temperatures.



Subjected to strict endurance testing since 1995. Solar Keymark certificates or others according to national requirements.

High-efficiency solar collectors

		KS2100F TLP AC	KS2600F TLP AC	KS2100F TLP ACR	KS2600F TLP ACR
Gross surface area	m ²	2,06	2,62	2,06	2,62
Optical efficiency		75,3%		79,1%	
Heat loss coefficient	a1 ,W/(m ² K)	3,168		3,342	
	a2 ,W/(m ² K ²)	0,012		0,014	
Heat yield (Würzburg, 50°),	kWh/year	1038	1320	1094	1392
Dimensions	mm	2022/1019/90	2022/1295/90	2022/1019/90	2022/1295/90

Hewalex solar sets

– a simple decision to save

Optimal sizing of the system is ensured by the wide range of HEWALEX solar sets. Here, the high-performance solar collectors are combined with a water heater of sufficient capacity and the modern, compact ALEX HX10 pump group, which is a perfect match for both traditional and modern architecture. Trouble-free operation, in turn, is guaranteed by an innovative system for venting the system. Available drivers

are responsible for optimum installation performance: MiniSOL - an innovative Plug&Play controller or GH26 controller, designed to handle extensive installations of various types and sizes. The sets are completed with a diaphragm vessel and heating medium. Original collector fixing systems and stainless steel solar tubes are offered separately.

Highly efficient flat solar thermal collectors made from high value environmentally friendly materials.

High-quality aluminium and stainless-steel fixing systems for all building conditions designed and manufactured by us.



Domestic hot water tank with a capacity of 200 to 500 litres, two coils, a circulation and electric heater connection.

MiniSOL or GH26 controller

ALEX HX10 pump group

Accessories

Solar kits – an overview of the range with example configurations.

Solar kits	Solar collectors	Water heater	Pump group	Controller	Accessories
Komfort HX00-2KS2100	2x KS2100F TLP AC (gross area of 4,12 m ²)	-	ALEX HX 10	MiniSOL	<ul style="list-style-type: none"> • Connection kit • Screwed connection KS3/4" • Expansion vessel • Glycol -25 °C
Komfort HX200-2KS2100		200 litres		MiniSOL	
KomfortPlus HX00-2KS2100		-		GH26	
KomfortPlus HX200-2KS2100		200 litres		GH26	
Komfort HX00-2KS2600	2x KS2600F TLP AC (gross floor area of 5,24 m ²)	-	ALEX HX 10	MiniSOL	<ul style="list-style-type: none"> • Connection set • Screwed connection KS3/4" • Expansion vessel • Glycol -25 °C
Komfort HX300-2KS2600		300 litres		MiniSOL	
KomfortPlus HX00-2KS2600		-		GH26	
KomfortPlus HX300-2KS2600		300 litres		GH26	
Komfort HX00-3KS2600	3x KS2600F TLP AC (gross floor area of 7,86 m ²)	-	ALEX HX 10	MiniSOL	<ul style="list-style-type: none"> • Connection kit • Screwed connection KS3/4" • Expansion vessel • Glycol -25 °C
Komfort HX400-3KS2600		400 litres		MiniSOL	
KomfortPlus HX00-3KS2600		-		GH26	
KomfortPlus HX400-3KS2600		400 litres		GH26	

Check out the full range of solar kits on our website → hewalex.eu

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Solar thermal technology

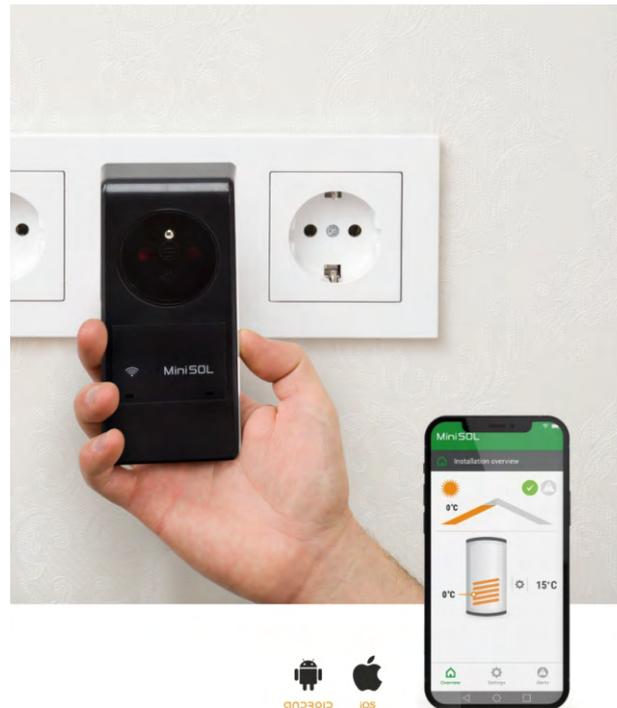
Controllers and pump groups

The efficient operation of any system requires many components to work together perfectly. Their quality plays a key role in guaranteeing continuous and safe operation. Hewalex has more than 30 years' experience in the design and manufacture of high-quality components for solar and other systems. These include pump groups, automation systems and fixing systems for solar heat collectors. The state-of-the-art product range is complemented by the EKONTROL monitoring and remote control system.

MiniSOL controller

It is an extremely convenient Plug&Play solution for controlling standard solar installations.

- Quick installation directly into an electrical socket.
- Automatic adaptation to the size of the solar plant – no need for presets.
- Constant adaptation to the changing operating conditions of the solar plant – self-learning functions.
- Operation with electronically controlled circulation pumps (PWM or iPWM).
- Protection functions: against overheating and freezing.
- Holiday function.
- Visual indication of emergency conditions.
- Operation via mobile device app (Android/iOS) in the following languages: EN, ES, DE, IT, PL.
- Three options for communicating with the controller: local connection, via WiFi or from anywhere via the Internet.
- Production and design as environmentally friendly as possible.



GH26 controller

It provides an enhanced solution with a range of functions. The controller can handle at least 19 types of solar installation schemes. It allows interactions with a wide range of control and measurement devices, as well as with the EKONTROL remote monitoring of operations.

- Limiting the operation of a heat source, such as a gas boiler.*
- Timer programmes for the operation of circulating pumps.
- Intermittent function of the utility water circulation pump.
- Hygienic function for drinking water.
- Protection functions: against overheating and freezing.
- Holiday function.
- Monitoring of overheating conditions (> 135°C).
- Instantaneous power meter.
- Extensive heat yield statistics over time.*
- Electricity meter (in the EKONTROL system).
- Visual and audible indication of faults in the installation.
- Choice of one of 22 language versions.
- Operated by the EKONTROL system.



*functions available in combination with electronic flow meter or rotameter

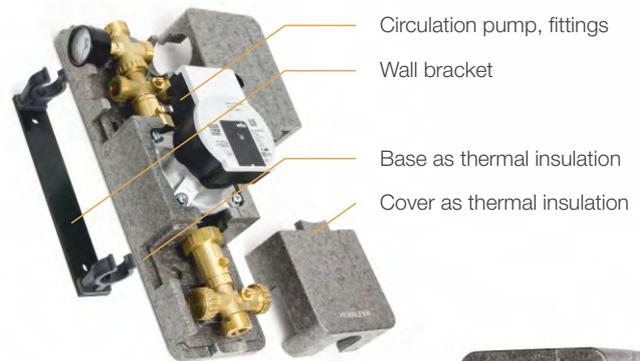
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ALEX HX10 pump group

The new-generation ALEX HX10 pump group was designed on the basis of ongoing collaboration with professionals. Maximum levels of comfort and functionality were a priority, from installation to use and servicing of the unit.

- Designed for the operation of small solar thermal installations with a collector surface area of up to 12 m².
- Modular design, fast and convenient installation with only two connections.
- Compact size and universal installation in relation to the water heater.
- Minimal energy consumption with high-performance electronic circulating pump.
- Operation with any solar controller supporting PWM or iPWM signals.
- Innovative way of venting the system to ensure maximum efficiency and reliability of operation.

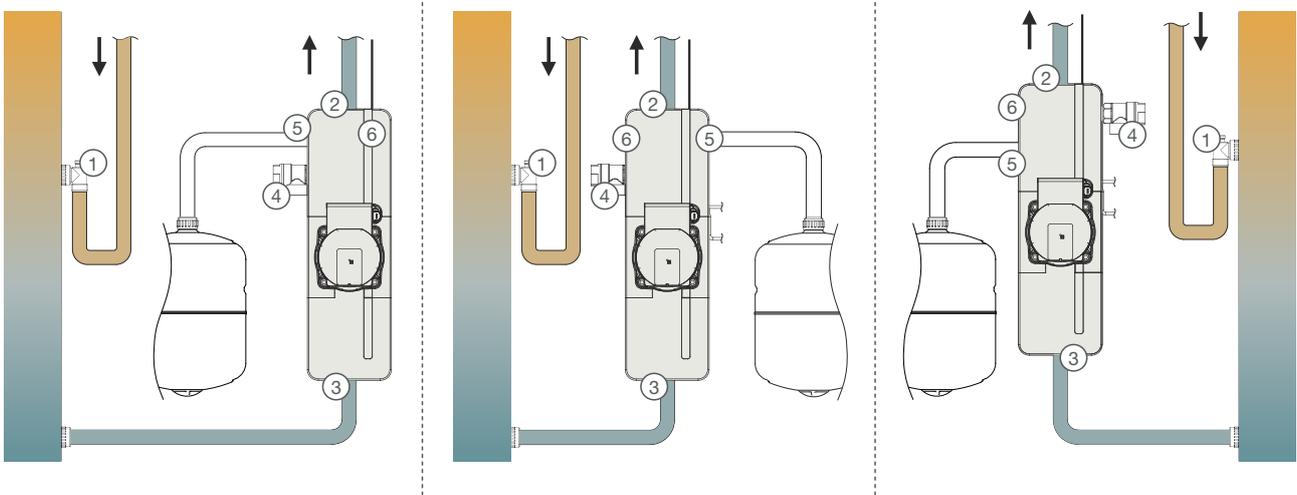


> Our recommended option:

ALEX HX10 pump unit in cooperation with MiniSOL controller

ALEX HX10 pump groups allows any connection to be made depending on the positioning of the water heater and the required direction of pipework. The supply from the solar thermal collectors is connected via a tee with a vent (1). The return to the solar thermal collectors should be connected to

one of the upper connections of the unit (2) and the return from the coil to one of the lower connections (3). The safety valve (4), as well as the expansion vessel connection (5) and pressure gauge (6), can be connected to the unit depending on its location in relation to the water heater.



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Heat pumps for heating and cooling



Heating, cooling and domestic hot water with a monobloc heat pump

The PCCO MONO heat pump is an extremely user-friendly heat source for installation and operation. The highest efficiency class A+++/A++ (35/55°C) and the ability to operate down to an outdoor temperature of -25°C. It has a built-in PZ HX Protection Module – an innovative solution that simplifies the installation and operation of the monobloc heat pumps, reduces investment and operating costs and provides the maximum level of protection in the event of power cuts (-25°C/48h).



Natural comfort through technology



Highest efficiency class A+++ (35°C), capable of operating down to -25°C. Maximum flow temperature up to 58°C (at -15°C).

AntiFreeze



-25°C | 48h

PZ HX Protection Module - an innovative solution for protecting the monobloc heat pump that eliminates glycol from the circuit and increases operating efficiency.



Environmentally friendly R32 refrigerant used in reduced quantities thanks to the design of the hermetic heat pump system.



EKONTROL system for remote monitoring of operations and maintenance. Automatic diagnostics introduce a new dimension of user comfort and safety.



EHPA-Q European Quality Label for Heat Pumps for high efficiency, low operating noise and maintenance of customer service standards.

Build a complete system tailored to your needs.

Fan coils, water heaters, heat buffers and accessories



- High level of comfort, high heating and cooling capacity due to forced air movement. Circulating air filtration.
- A timeless, subdued, universal design adapted to different types of rooms.
- Securing comfort needs – the required amount of hot water, taking into account the requirements for efficient heat pump operation.
- Ensure stable, safe operating conditions for the air-to-water heat pump.

Monobloc heat pumps – an overview of the range

			PCCO MONO 6	PCCO MONO 9	PCCO MONO 11	PCCO MONO 15	PCCO MONO 18
Efficiency class (35°C/55°C)			A+++/A++	A+++/A++	A+++/A++	A+++/A+++	A+++/A++
Heating power/electricity /COP	(A7/W35)	kW/kW/-	6,33/1,40/4,53	9,22/1,89/4,88	11,60/2,37/4,90	15,00/3,13/4,80	15,58/3,53/4,41
	(A7/W55)	kW/kW/-	6,10/2,25/2,71	8,50/3,15/2,70	10,00/3,70/2,70	12,90/4,30/3,00	17,50/5,96/2,94
Heating power/electricity /COP	(A2/W35)	kW/kW/-	6,13/1,61/3,81	7,88/2,04/3,87	10,17/2,61/3,90	13,83/3,27/4,23	18,53/4,14/4,48
	(A2/W55)	kW/kW/-	4,72/2,12/2,23	6,85/3,01/2,28	8,62/3,77/2,29	11,55/4,81/2,40	14,54/5,91/2,46
Cooling/electric power/EER	(A35/W12-7)	kW/kW/-	4,50/1,69/2,67	6,95/2,32/3,14	6,56/2,44/3,70	13,09/4,23/3,30	15,81/5,38/3,10
Additional electric heater		kW	3 or 6	3 or 6	3 or 6	3 or 6	3 or 6
Power supply		V/Hz	230/50	230/50	230/50	400/50	400/50
Sound power level of indoor/outdoor unit		dB(A)	44/51	44/53	44/52	44/59	44/60
Supply temperature at -15°C		°C	58				
Dimensions of the indoor unit		mm	500/720/267				
Dimensions of the outdoor unit		mm	1008/728/417	1170/876/417	1170/876/417	1095/1475/435	1095/1475/435
Weight of indoor/outdoor unit		kg	43/65	43/78	43/78	43/122	43/122

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Heat pumps for heating and cooling

PZ HX Protection Module

The PZ HX Protection Module is Hewalex's own innovative solution, put into production in 2019 and thus proven in a wide range of monobloc heat pump applications. Among other things, it implements the AntiFreeze function, which protects the heat pump condenser for 48 hours in the event of a power failure, with outdoor temperatures as low as -25°C. Unlike standard monobloc heat pumps, PCCO MONO and PCOP MONO heat pumps can operate with water in the internal circuit instead of glycol, while maintaining the terms of the manufacturer's warranty.



-25°C | 48 h
SAFETY

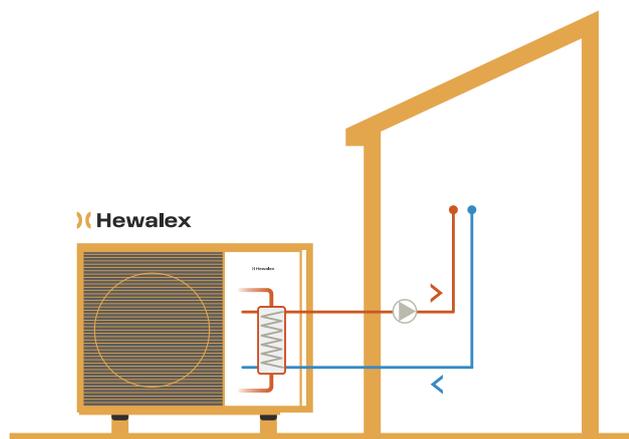


+15 %
EFFICIENCY



H₂O
ENVIRONMENT

HEWALEX PCCO MONO – HEATING WATER SYSTEM

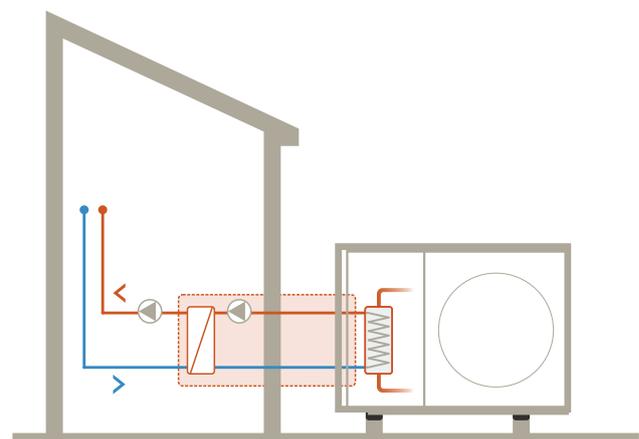


PZ HX Protection Module integrated in the heat pump indoor unit.

Direct heating water connection to the outdoor unit – without any heat exchanger, intermediate circulating pumps or glycol.

The system is automatically tested and all event messages are emailed or texted to mobile phones.

STANDARD HEAT PUMP – GLYCOL SYSTEM



Needs an anti-freezing heat transfer medium (usually glycol), an additional heat exchanger, and an intermediate circulating pump.

Additional installation labour and a larger installation footprint required.

Requires a higher heating water temperature to take off heat from glycol.

Economic and technical benefits of the PZ HX Protection Module

- Reduces the costs of accessories by approx. 500 EUR in comparison to a standard monobloc heat pump
- Lower electricity consumption by eliminating the intermediate circulating pump (in the glycol circuit).
- Approximately 15% higher efficiency (higher COP) due to a lower heating water temperature at the heat pump supply side with the preset heating water temperature maintained in the system.
- Less complex hydraulic installation for better reliability.
- Measuring functions such as electricity consumption and, if a pulse flow meter is connected: heating power and COP.
- Reduced time and costs of installation, maintenance, and repairs in subsequent years of operation

Heat pumps for heating and cooling

EKONTROL – remote monitoring and diagnostics

The EKONTROL system is a multifunctional solution designed for cooperation with RES systems, fulfilling specific functions related to remote supervision, operation, analysis and management, or automatic diagnostics. Successive generations of the EKONTROL system have been used in tens of thousands of installations since 2015.



REMOTE MONITORING AND OPERATION

Solar installations, PCCO, PCWU heat pumps



The system allows remote setting of operating parameters, viewing operating statuses and receiving alarm signals. Archived data allows statistics to be performed and heat pump operations to be optimised to maximise the use of renewable energy.



OPTI-ENER

Electricity consumption management

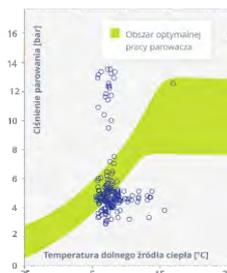


EMS-type system for energy balance management. Its role is to control the operation of equipment according to set priorities. The aim is to maximise self-consumption of energy to increase the profitability of the in-house power plant. The tool gives access to a range of statistics and information. Allows the reading of the amount of energy released and stored (more on page 20-21).



EKONTROL DIAGNOSTICS

PCCO heat pumps



The innovative solution provides ongoing support by analysing 54 PCCO heat pump measurement data. Automatically generated reports are provided to the user. A technical service provider can respond in advance to any malfunctions. As a result, no maintenance is required during the 5-year warranty period.

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High-capacity heat pumps

Warmth and cooling for increased needs.

The High-capacity PCOP MONO heat pumps are designed for use in larger facilities, e.g. industrial, service, offices, tourism, residential, etc. In heating mode, they can operate down to an outdoor temperature of -30°C. In summer, it is also possible to use the units for active cooling of the building.

Safety of use

An innovative feature is the ability to work directly with the heating water. This is made possible by the special condenser design and Hewalex's proprietary solution – the PZ HX Protection Module with AntiFreeze function. It provides double protection against freezing in the event of a power failure. The use of water significantly reduces investment and operating costs and is additionally environmentally friendly.



Natural comfort through technology.



High efficiency class A+ (35/55°C) in the high power heat pump segment. Capable of operating down to -30°C. Maximum supply temperature up to 60°C (HX25 EVI).



The compressor with EVI (Enhanced Vapour Injection) technology increases COP efficiency by up to 10% and thermal efficiency by up to 25% compared to standard solutions.



A large-surface evaporator and powerful fans allow efficient heat extraction even at low temperatures (operation down to -30°C).



The special design of the condenser and the PZ HX Safety Module eliminates the risk of freezing during power failure at -25°C for up to 48 hours.



Advanced controller with 5" touch screen. The Modbus RTU communication protocol allows interaction with the building's integrated automation system (BMS).

Build a complete system tailored to your needs

Fan coils, water heaters, controllers and accessories.

Multifunctional, intuitive controller. Features include simple selection of one of five operating modes, clear overview of current operating parameters, detailed diagnostics and operating fault history. The Modbus communication protocol provides stable communication between systems in a building for the management and control of their operation. The WarmLink application allows remote access to controller

parameters and settings heat pumps. For complex systems, e.g. cascade systems, freely programmable controllers are available. The PZ HX Protection Module with AntiFreeze function has been specifically designed to ensure the highest level of safety. This provides protection for the heat pump in the event of a power failure for 48 hours at -25°C outside.



High-capacity heat pumps - an overview of the range.

			PCOP MONO HX25 EVI	PCOP MONO HX38 EVI	PCOP MONO HX77 EVI
Efficiency class			A+/A+	A+/A+	A+/A+
Heating power/electricity /COP	(A7/W35)	kW/kW/-	24,0/6,0/4,0	42,0/10,0/4,2	84,0/20,0/4,2
	(A7/W55)	kW/kW/-	22,6/8,9/2,5	43,0/14,5/3,0	86,0/29,0/3,0
Cooling/electric power/EER	(A35/W12-7)	kW/kW/-	17,0/7,8/2,2	27,3/10,6/2,6	59,0/21,9/2,7
Type and number of compressors	szt.		2x Higly EVI rotary	1x Copeland EVI scroll	2x Copeland EVI scroll
Power supply		V/Hz	400/50	400/50	400/50
Type and quantity of refrigerant		kg	R410A/2x 2,6	R410A/9,0	R410A/2x 9,0
Supply temperature at -20°C		°C	60	55	55
Unit dimensions		mm	1172/400/1588	1414/854/1911	2182/1078/2100
Device weight		kg	215	430	778

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Domestic hot water pumps



Hot water – comfortably and economically

The utility water heat pump provides high hot water comfort at very low running costs. They should be around 3-4 times lower compared to traditional electric heaters.

An additional benefit is the cost-effective cooling of the house in summer using the cooled air removed from the heat pump. This is done at no additional cost, during normal operation of the unit. Complete ventilation kits are offered for this purpose.



Natural comfort through technology.



The highest efficiency class A+ in the utility water heat pump segment enables low operating costs.



Made using proven technology, the rotary compressor is characterised by its uncomplicated design and therefore reliability.



Proven traditional solution with an increased thickness of up to 3 mm for the steel tank covered with a ceramic enamel layer (200eK/300eK).



Choose between a version with a controller with an extended range of functions (G426) or one with maximum ease of operation to the extent necessary (HW100).



The innovative EKONTROL remote monitoring and operation system allows full remote control of the heat pump operation (with the G426 controller).

For every need

– a heat pump with a modular design
or with an integrated domestic hot water heater

The PCWU 3.0kW modular heat pump is the ideal solution for retrofit systems. The design allows direct connection to an existing water heater (recommended capacity 200-500 litres). The 200eK or 300eK heat pump with integrated 200 or 300 litre heater can be a stand-alone unit or connected in addition

to a gas or other boiler. The choice of heating output of 1,8 or 2,5 kW can be made depending on the number of users and comfort requirements. In addition, a built-in 1,5 kW electric heater provides a periodic increase in hot water output.



PCWU 3,0kW



PCWU 200eK/300eK

Heat pumps for domestic hot water – an overview of the range.

		PCWU 3,0kW	PCWU 200ek-1,8kW	PCWU 300ek-1,8kW	PCWU 200ek-2,5kW	PCWU 300ek-2,5kW
Energy rating		A+	A+	A+	A+	A+
Heating power/electricity/COP (A20/W10-55 EN 16147):	kW/kW/-	3,0/0,72/3,03	1,80/0,55/3,57	1,80/0,55/3,72	2,50/0,82/3,67	2,50/0,82/3,75
Additional electric heater	kW	-	1,5	1,5	1,5	1,5
Water heater capacity	dm ³	-	200	300	200	300
Coil surface	m ²	-	1,0	1,0	1,0	1,0
Controller type/extended functions		G426/yes	HW100/no	HW100/no	G426/yes	G426/yes
Unit dimensions	mm	720/600/490	560/1773	640/1892	560/1767	640/1875
Device weight	kg	46	112	135	120	149

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Photovoltaics

Own electricity through free solar energy

Photovoltaics as a source of electricity using solar energy has been a natural focus for Hewalex for many years. We are a supplier of a range of complete solutions for facilities of all sizes and purposes. These include both grid and hybrid systems.

OPTI-ENER – Innovation in building energy management

The new generation of the OPTI-ENER system, which is a Hewalex proprietary solution, introduces new possibilities among the well-known EMS-type systems on the market. It is specifically designed to manage the operation of electrical appliances in conjunction with an owned energy source such as photovoltaics. This has the effect of increasing self-consumption of energy and increasing the profitability of investments.

→ For further information on OPTI-ENER: pages 20-21.



Natural comfort through technology



Photovoltaic panels from the world's leading manufacturers according to the TIER 1 list. High efficiency and resistance to harsh working conditions.



High-performance, reliable convection-cooled inverters. Airtightness and resilience that also allows installation outdoors.



Innovative OPTI-ENER system to manage the operation of electrical equipment to maximise the use of its own energy.



State-of-the-art modular energy storage units made using LiFePO technology with improved service life and performance.



Extended warranty periods for key components, e.g. 12 years for photovoltaic panels and 10 years for inverters and energy storage.

Complete Hewalex photovoltaic systems

– for every type of building according to national legal and economic conditions

We recommend that the choice of solution for the type and size of photovoltaic system should be made according to the requirements of the investor and the current legal and economic conditions in the country concerned. We equip grid-connected (on-grid) systems with the innovative OPTI-ENER

solution. This provides up-to-date information on the amount of energy generated, released and stored on the grid (more on pages 20-21). For hybrid systems, we offer on-grid and off-grid inverters. This makes it possible to economically and technically optimise the size of the energy storage facility.

High-quality aluminium and stainless-steel fixing systems for all building conditions designed and manufactured by us.

High-efficiency PV panels (min. 20.4%)

Accessories



Components for the on-grid system



On-grid inverters up to 75 kWp



OPTI-ENER energy management system

Components for a hybrid system



Hybrid inverters up to 9,6 kWp



Modular energy storage with a capacity of up to 14,2 kWh

Complete Hewalex photovoltaic systems - suitable for all types of climate, including non-standard conditions

For our systems, we have selected components that meet stringent requirements such as resistance to low and high ambient temperatures, e.g. for inverters -25 to +60°C (tests in desert and arctic climates), or resistance to the presence of salt or ammonia in the air as in the case of photovoltaic panels. This ensures the versatility of our solutions in terms of climate and building conditions.



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OPTI-ENER – intelligent software for energy management (EMS)



Control your energy

OPTI-ENER is an intelligent system that helps to manage the energy balance in the household, company or apartment. OPTI-ENER allows for energy consumption monitoring and provides full control through automatic, manual and timed switching on and off of the devices. It also helps to maximize the self-consumption of energy produced by an additional source, such as photovoltaic system. The controller is operated through EKONTROL system by using a dedicated mobile application or via ekontrol.pl website.

Basing on current and voltage measurements, the system calculates the amount of energy consumed, generated and transferred to the grid. OPTI-ENER enables automatic activation of electrical devices in accordance with the given priorities, taking into account a better energy price tariff or surplus energy produced by the additional energy generator. The collected data allow to determine, among others, the level of self-consumption, which increases profitability of the investment.

Adapted to
SG Ready



Natural comfort through technology



Management of electricity consumption for 4 devices or electrical circuits. Possibility of turning on and off individual devices or circuits depending on the given priority and amount of surplus energy.



Energy balance management - measurement of the power generated, consumed and transferred. Balancing electricity consumption on each of the 4 measuring inputs.



Decrease energy costs by increasing the level of self-consumption of energy produced by an alternative source, such as home photovoltaics system.



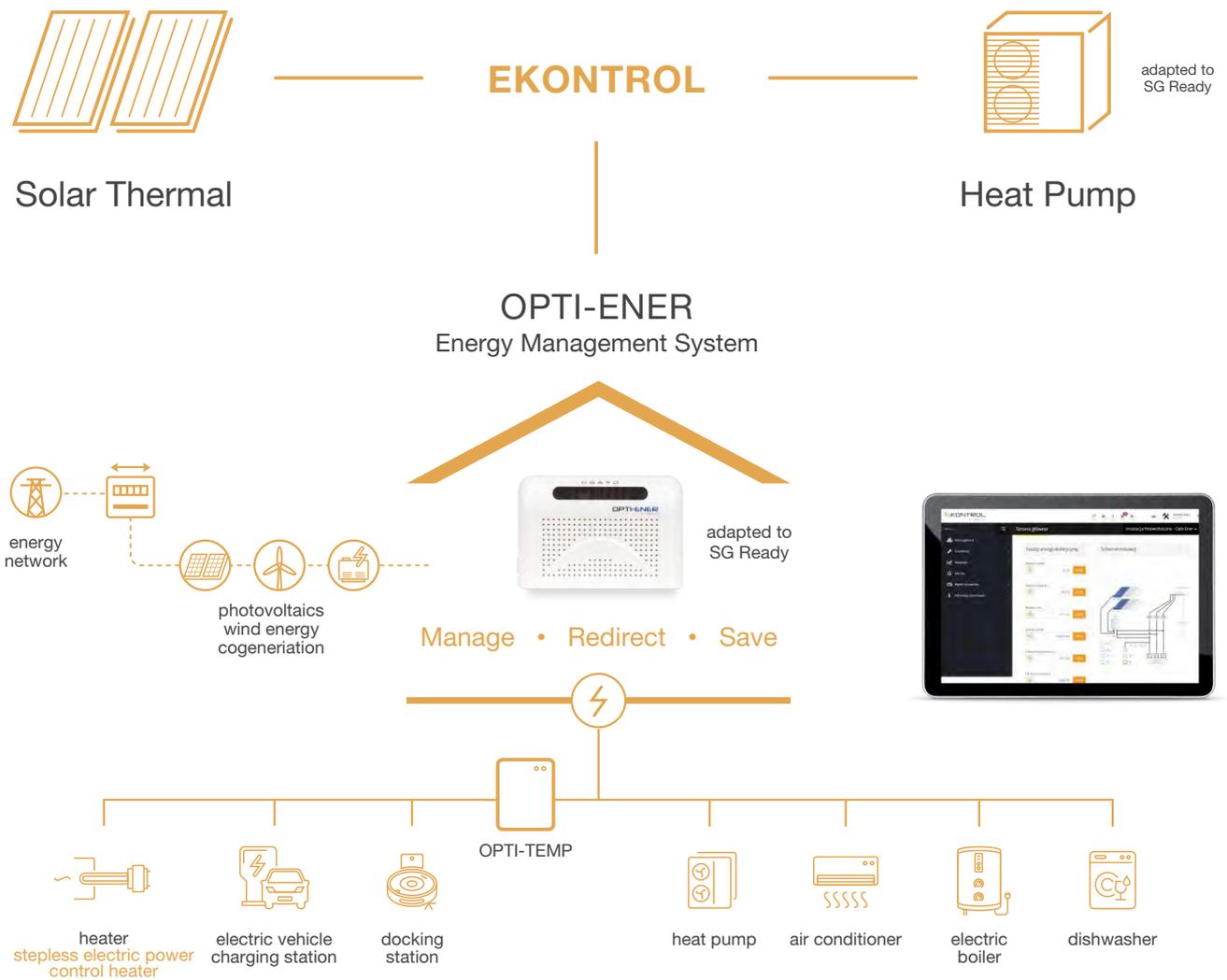
Easy and convenient status notifications informing about the alarms in the form of push/SMS/mail notifications.

→ Check the full functionality of the system on our website.

OPTI-ENER

– adapted to modern demand, compliant smart grid standards (SG-Ready)

OPTI-ENER is designed to connect electrical appliances with the smart power grid. It allows to control the operation of connected devices or circuits according to operating statuses demanded by the current grid load.



OPTI-TEMP – to further take advantage of the system, we offer an additional module which allows for convenient regulation of power of electric heater (from 0-2000W) in the DHW water heater. It enables further consumption of surplus electricity generated by an additional source, such as photovoltaic system.

Visit us for details
(hewalex.eu)





Scale of investments using Hewalex solutions 1990-2022

- More than 250,000 working RES installations with Hewalex solutions in residential, commercial, office, sports, education, healthcare, manufacturing and other facilities.
- Solar collector area produced – more than 1.550.000 m².
- More than 26.000 heat pumps of all types in operation.
- Delivered in at least 50 countries in various climate zones.

Single-family buildings

- More than 220.000 single-family buildings equipped with Hewalex solutions.
- Providing comprehensive solutions for more than 60 regional investments, within the framework of e.g. emissions reduction programmes – a total of more than 70.000 buildings.

Photo House modernisation with 4 solar thermal collectors for domestic water heating and heating support, 11 kWp photovoltaic installation, 15 kW monoblock heat pump for heating and cooling (Poland).



Multifamily buildings

- More than 1.200 implementations in multi-family buildings, in particular the construction of large-scale installations with solar thermal collectors to support heating and hot water.
- Projects delivered in collective housing facilities such as dormitories, guest houses, hotels, etc.

Photo Solar collectors with a total area of 508 m² for domestic water heating and heating support, built on the roofs and facades of multi-family buildings (Norway).



Office buildings

- More than 600 implementations in office and similar buildings, using high-power heat pumps, photovoltaic installations and solar thermal collectors.
- Generation of heat, cooling and electricity with management by an EMS-type system (Hewalex OPTI-ENER).

Photo Ronald McDonald Foundation Centre. Usable area of 2.000 m², 25 families. Cascade of 4 heat pumps with a heating capacity of 120 kW. 30 kWp photovoltaic installation (Warsaw, Poland).



Sports facilities

- Over 800 projects delivered in sports, tourism, hotel facilities, etc.
- Solutions for facilities with higher hot water consumption, based mainly on solar collectors and heat pumps.

Photo Large-scale installation with solar panels at the city sports centre. 128 flat-plate collectors with a total surface area of 330 m² for heating pool and utility water. Non-standard conditions for solar collectors (Sosnowiec, Poland).



Industrial and healthcare facilities

- Nearly 1.000 industrial and healthcare facilities equipped with Hewalex solutions.
- Solutions for district heating plants, sewage treatment plants, production plants, hospitals, clinics, as well as historic buildings.

Photo Large installation with 82 m² of solar panels at a hospital. Historic building in a coastal area with special architectural requirements (Sopot, Poland).





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30 years
in renewable
energy market