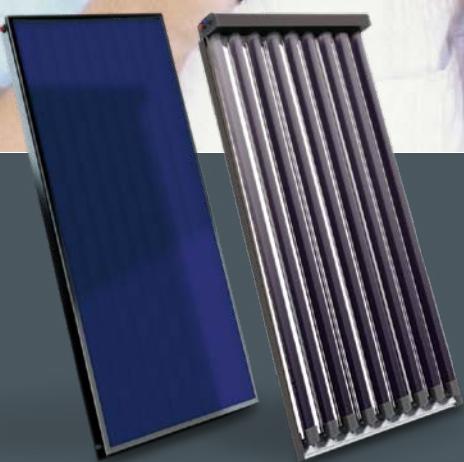




Product Catalogue





Choose life in SLOW mode!

● ENERGY /solar collectors/.....	2
● ERGONOMICS /solar sets/.....	6
● EASY FIT /fixing systems/	10
● EXPERT /solar accessories/	14
● WATT eSens SOLAR SETS	
S sets	18
CPC sets.....	19
DUO sets	21
VIP sets	22
● WATT eSens SOLAR COLLECTORS	
flat-plate collectors.....	29
vacuum collectors.....	32
● WATT eSens FIXING SYSTEMS	
flat-plate and vacuum collectors	34
● WATT eSens SOLAR SYSTEM ACCESSORIES	
flat-plate and vacuum collectors	36
● EXHIBITION COLLECTORS	45
● CONTACT	46



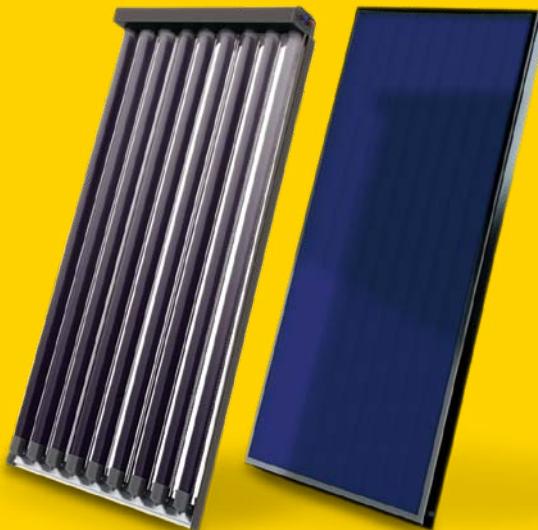
SOLAR COLLECTORS



Mr. Helius
on Facebook
Like it!

energy





Nature is an inexhaustible source of energy. It gives us power and joy of life and provides inspiration to creative thinking and search for new solutions. While examining the possibilities to use the potential energy of nature we created eSens solar systems, the essence of the solar technology.

Those, manufactured by Watt, eSens solar collectors represent one of the most valued solar technologies in Europe. They have been developed using a combination of broad knowledge and experience of the manufacturer. Watt constantly improve their products in a search for the best methods of practical use of the renewable energy resources.

The implementation of the innovative technology helped to create WATT 4020 S, one of the most efficient solar collectors in the world with the efficiency of 85%.

Flat-plate and vacuum collectors of eSens series ensure preparation of domestic hot water and support for central heating systems. They stand out for their precision of workmanship, enhanced durability and selection of materials used. High quality of eSens solar collectors is confirmed with numerous tests and certificates. All Watt collectors are Solar Keymark-approved which stands for a prestigious quality mark of solar energy products.

eSens solar systems are manufactured at the Watt plant equipped with an automated production line for flat-plate and vacuum collectors. Streamlined production process allows producing as many as 2500 m² of solar collectors daily.

Standardised product quality ensures high reliability and precision at each stage of the solar system production. It also translates into shorter production time and lower manufacturing costs. The introduction of an automated production line created perfect conditions for improvement of the efficiency of equipment. That concept is followed by the Research Laboratory of Watt which boasts a unique tool - a Sun Simulator which helps to refine our eSens solar systems to improve their efficiency and comfort of operation.





Which collector to choose?

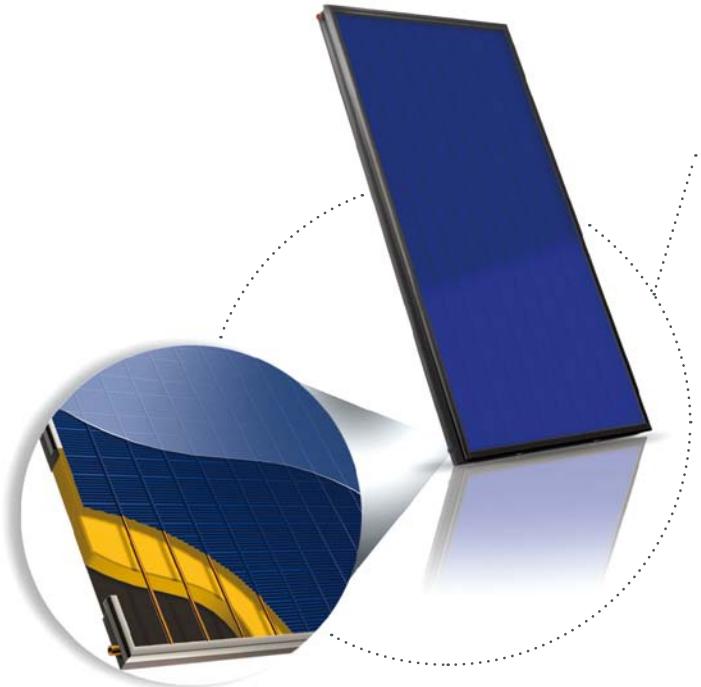
The eSens series comprises a broad selection of both flat-plate and vacuum solar collectors. When selecting a solar system the customers quite often wonder what is the difference between the two collector types. Generally speaking the difference between a flat-plate collector and a vacuum collector lies in design and intended use. Due to a large absorption area, short distance for the sunlight to reach the absorber, direct contact between the absorber and the solar liquid, the flat-plate collectors prove themselves in good weather conditions.

However, vacuum collectors which use the vacuum, the best available insulator, and incorporate a specially shaped mirror (CPC series WATT collectors) focusing diffuse radiation show better efficiency in autumn and winter seasons i.e. in the period of increased energy demand.

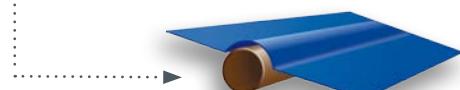
Therefore, when selecting a collector, whether the flat-plate or vacuum type, we should be aware when the solar system is going to be used and for what purpose. The diagram on the right showing the operation of a flat-plate and a vacuum collector throughout the year may be used as an aid in analysis of your needs.

Flat-plate solar collectors

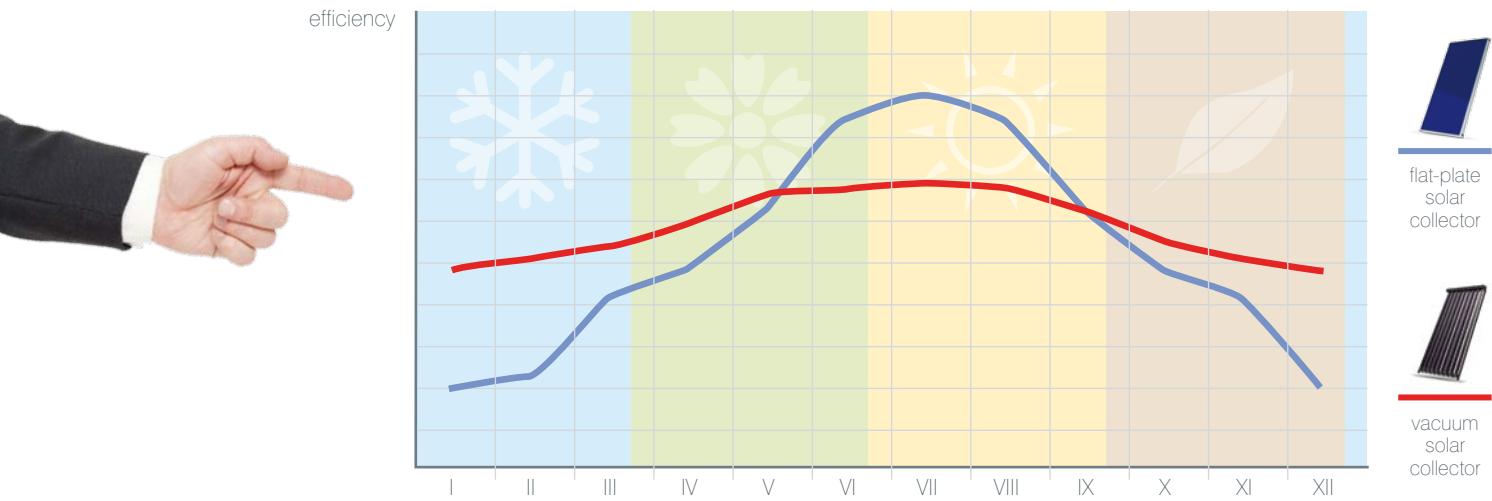
Flat-plate collectors are economical devices which enable the simple use of free solar energy. Flat-plate collectors WATT are used for effective heating of utility and pool water and for supporting low-temperature central heating systems. Watt collectors are characterized by durability, the premium quality and high performances, confirmed by many certificates.



- The elegant, solid and durable aluminum casting produced from one piece of aluminum sheet
- Resistant to hail, highly permeable solar glass
- Highly selective coating of copper absorber
- Suitable for installation on both – sloping and flat roof
- The possibility of in-roof fitting or installation in the garden
- The proper insulation thickness and insulation of side walls' casing reduces energy losses. The unique ventilation system increases its efficiency
- The enlarged surface of connection the absorber with copper pipes
- The patented method of connecting by streaming soldering accelerates and increases energy changes between the absorber and liquid in the system

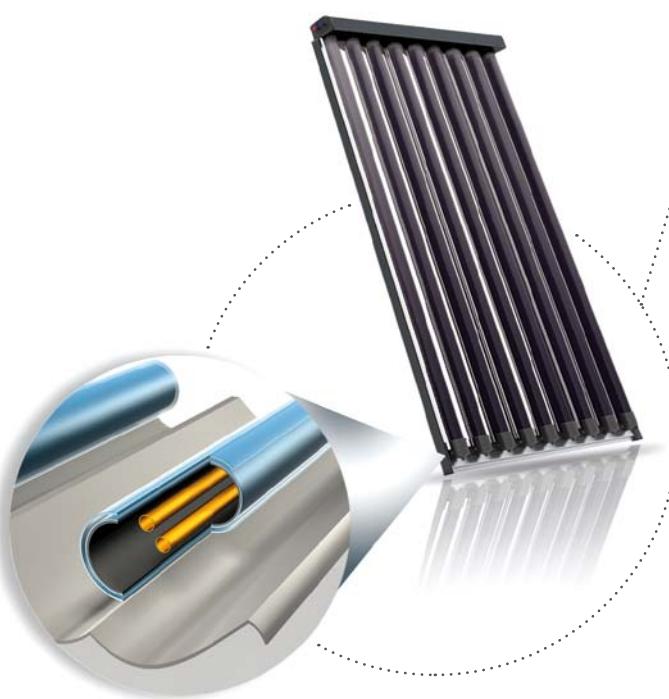


SOLAR COLLECTORS



Vacuum solar collectors

Vacuum solar collectors WATT CPC are equally effective and modern source of heat. They are used for heating utility water and supporting the central heating in: single- and multi-family houses, hotels, hostels, health-care facilities, sacred buildings, as well as heating pool water. The all-year-long high performance and energy efficiency place vacuum solar collectors on the top of mostly selected during solar investments in Poland and abroad. Watt CPC collectors are characterized by durability, the premium quality and high performances, confirmed by many certificates.



- Direct flow of working medium through copper pipes placed directly in glass vacuum tubes, enables the faster reaction of the collector
- Perfect insulation due to double-walled glass tubes with the vacuum between them
- Highly-reflective CPC parabolic mirror, absorbs the diffuse radiation coming from different angles
- High efficiency in the autumn and in the winter, despite low outside temperatures
- Certificates: DIN CERTCO Solar Keymark, EN-12 975
- 10-year guarantee



CPC parabolic mirror

SOLAR SETS

ergonomics



Add Mr. Helius
to your friends!





When designing eSens solar sets we focused mainly on the comfort of our users. Driven by convenience of the users we created complete solar sets which perfectly match various customers' needs.

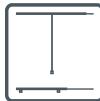
Ergonomics of the eSens sets is a result of optimum combination of the individual components which makes the system easy to install and functional and reduces the operating costs. Additionally, all Vip sets are equipped with titanium anodes to ensure a 10-year warranty for the tanks included in the sets.

Each system is controlled by multi-functional controllers and e360° controllers to guarantee reliable operation of the system for many years. Thanks to the wide measuring range and vast selection of available temperatures the controller can be used in various configurations. Our sets incorporate the highest quality tanks manufactured by Austria Email which are exclusively distributed by Watt in Poland. As the products are supplied directly by the manufacturer our customers can be assured of quick order processing and high quality of services.



Solar systems of eSens series stand out for their precise workmanship and refined details. High aesthetic level of the collectors, once installed on a roof, lends modern appearance to the building while the special fixing system effectively masks the structural parts. Appropriate insulation reduces heat losses or eliminates them fully in case of vacuum collectors. A suitable configuration provides our solar systems with better ergonomic properties, which allows reducing the operating costs.

Customers who decided to install eSens collectors may go for a long vacation without worrying of the system operation safety. Even when the residents are away the solar collectors are safe as they are protected by the controller responsible for a trouble-free operation of the system. Those electronic devices calculate and control the temperature and pressure inside the collectors and the tank on a continuous basis to allow maintenance-free operation of the system. In case of longer periods of absence the system can be switched to the safe vacation mode so that the heat stored in the tank will be given up automatically.



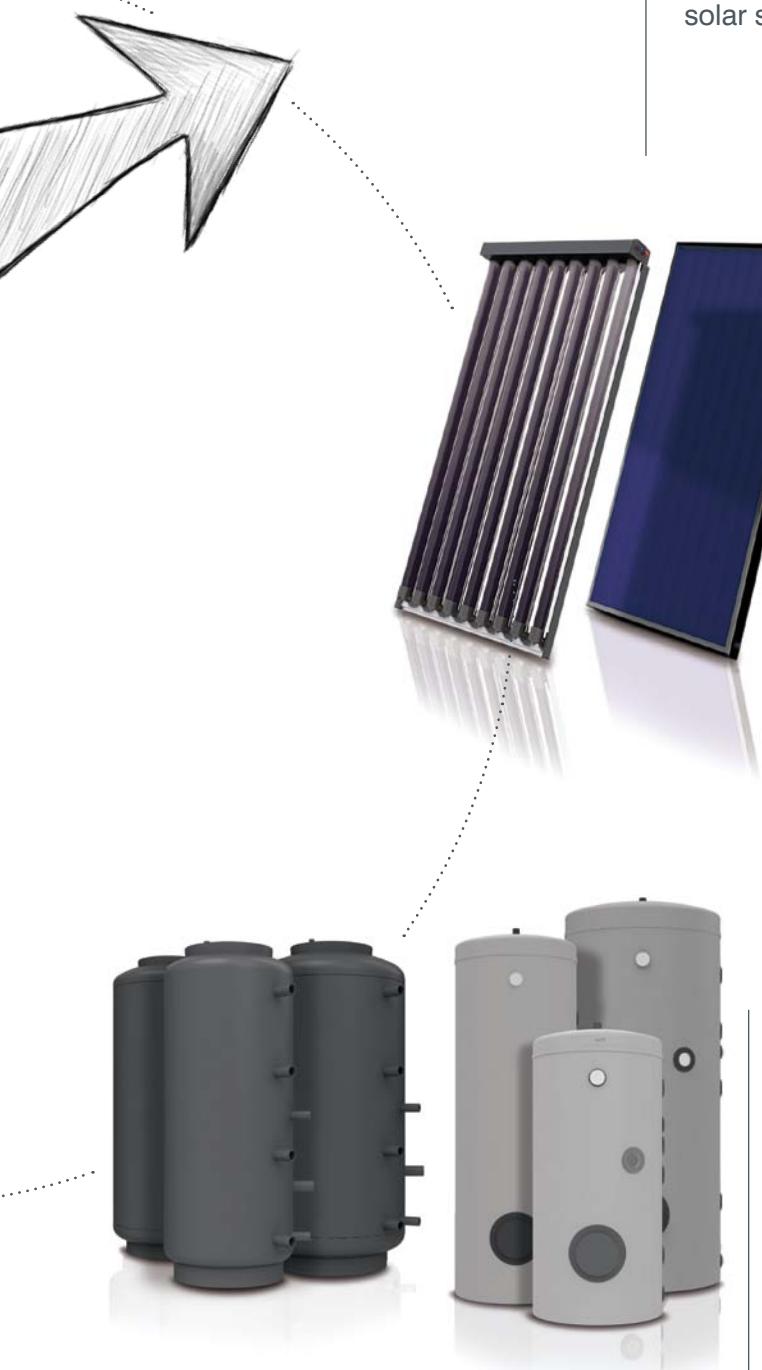
Select your best set and we will tell you how to install it. WATT fixing systems ensure quick, safe and reliable installation. Durable aluminum sections combined with stainless steel parts will fasten the collectors to any roof, facade or other surface. Roof fixings are suitable for any roofing type. Comfortable adjustment system allows precise setting of the desired angle. Up to five collectors in a row can be installed using a single, properly selected frame.



The sets include all the parts necessary for a proper operation of the solar system. They are all precisely selected and inspected. This is why the WATT sets are so easy to install and virtually failure-free. The solar accessories include: expansion vessel of the capacity corresponding to the number of the collectors used, solar group, solar controller, connecting sets, solar fluid and solar insulation for pipes connecting the collectors to the buffer.



e360°



Discover the multi-functional e360° controller. It is a touch control panel which enables control via phone. It incorporates a colour display and high quality graphics to facilitate programming. A large display and a user friendly icon system make the interface intuitive. The panel displays all system parameters and selects the optimum operation mode. The controller may control other heating devices in parallel with the solar system. The e360° controller stores the operating parameters, which allows unbiased evaluation of the solar system operation and the benefits it brings.

What to do with the collectors
when we go to vacation?



The flat-plate eSens collectors reach the efficiency of nearly 85%. A unique patented technology of stream soldering was employed during the manufacturing and the collectors incorporate highly selective BlueTec absorber, anti-reflective solar glass and top-class mineral wool insulation. The housing, made of a single aluminum sheet, is durable and corrosion resistant to ensure minimum heat losses and a lifetime of 25 years. The innovative vacuum collectors are equipped with a modern hydraulic system and durable mirrors with higher reflection coefficient. Both flat-plate and vacuum collectors are covered with a 10-year warranty.



The unique quality of eSens solar systems is a result of an expert combination of the collectors with the tanks. The reputable AUSTRIA EMAIL tanks provide effective storage of energy captured by the collectors to guarantee a supply of hot domestic water throughout the day and night. Tanks with two coils can be connected to any main boiler. Multi-functional SISS buffers are intended for use with solar systems which support the central heating systems. The capacity of tanks (ranging from 200 l to 5,000 l) is adapted to the needs of customers and the number of collectors included in the set. The heaters are available as enamelled or made of stainless steel with magnesium or titanium anode and a thermometer. The manufacturer provides a 7-year warranty.

FIXING SYSTEMS



Join the
Mr Helius Club!

éasy fit





From our experience we know that the customers expect solutions which are functional and customized. eSens solar systems boast a number of practical functions which make them perform well in varying operating conditions.

The fixing systems we offer show great flexibility in use which allows the solar collectors to be installed on different surfaces. Well thought-out construction of the roof fixings and free-standing constructions enable installation of solar collector virtually anywhere.

An "S+L" type fixing has been developed for durable and aesthetic installation for all types of roofing, covered with tiles, steel sheet, steel roof tiles or bituminous tiles. There is also an optimum solution for installing solar collectors on building walls.

When planning an installation of a solar collector on a flat surface or on the ground it is recommended to use a free-standing construction which additionally allows the angle of the load-bearing frame to be adjusted and, hence, to adapt the position of the collector to the angle of incidence of the sun rays.

The fixing systems are made of stainless steel which makes them durable and resistant to corrosion. Powder coating was used to even better protect the surfaces of the parts from varying weather conditions.



An important aspect of a trouble-free and safe operation of a solar system is the proper selection of the solar collector fixing system to the individual surface. Properly mounted roof fixings or free-standing constructions protect the system from damage, make it resistant to wind or snow load. The fixing systems of eSens series allow the collectors to be installed on various surface types including flat or sloping roof or even in-roof or on a building wall. The fixings distribute the load evenly and the sections stabilize the whole solar structure. Installation of the solar collectors on the ground with the use of a free-standing construction provides free access to the load-bearing frame to allow adjustment of the inclination angle in relation to the sun.

FIXING SYSTEMS - flat-plate solar collectors



The free-standing construction allows the collectors to be placed on any surface at the optimum angle of 45°. The construction is equipped with multi-purpose mounting feet to fasten the construction to the substrate, if necessary, also next to the building. Aluminum sections which form the frame modules and the connecting bolts are made of stainless steel and corrosion-resistant.



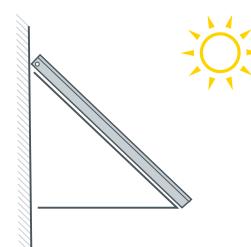
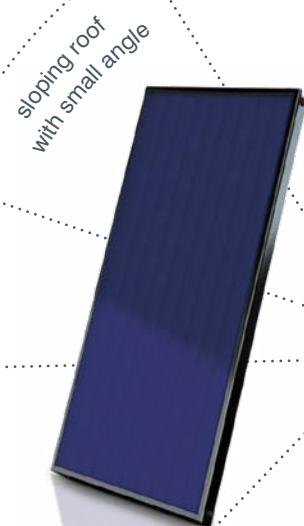
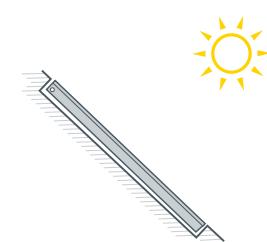
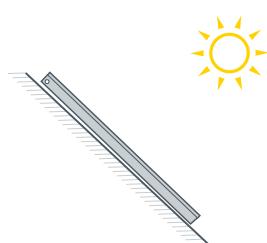
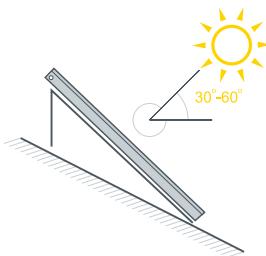
The collectors are installed in sections comprising 1 to 5 collectors in a multi-purpose frame which provides rigid support to facilitate installation and protects the equipment during operation. The frame is equipped with roof fixings "S+L" type attached to the frame.



The roof installation is facilitated by the robust and rigid design of the collectors. When using that installation method no additional structural parts are required. Tightness is ensured by a coated system flashing. Pipes connecting the collector to the buffer are fully covered by the roof surface.

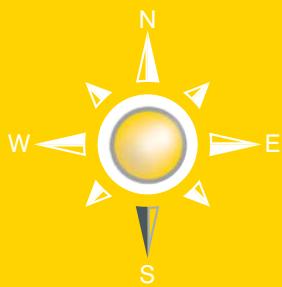


When installed on the building facades the collectors are fastened with the use of an inverted free-standing construction. This allows maintaining optimum inclination and perfect exposure to sunlight. Fixing to the wall is made by typical mounting feet with no need to apply additional reinforcement.

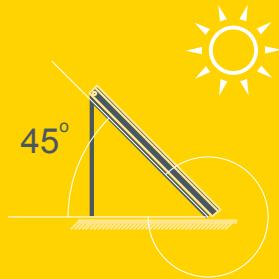


FIXING SYSTEMS

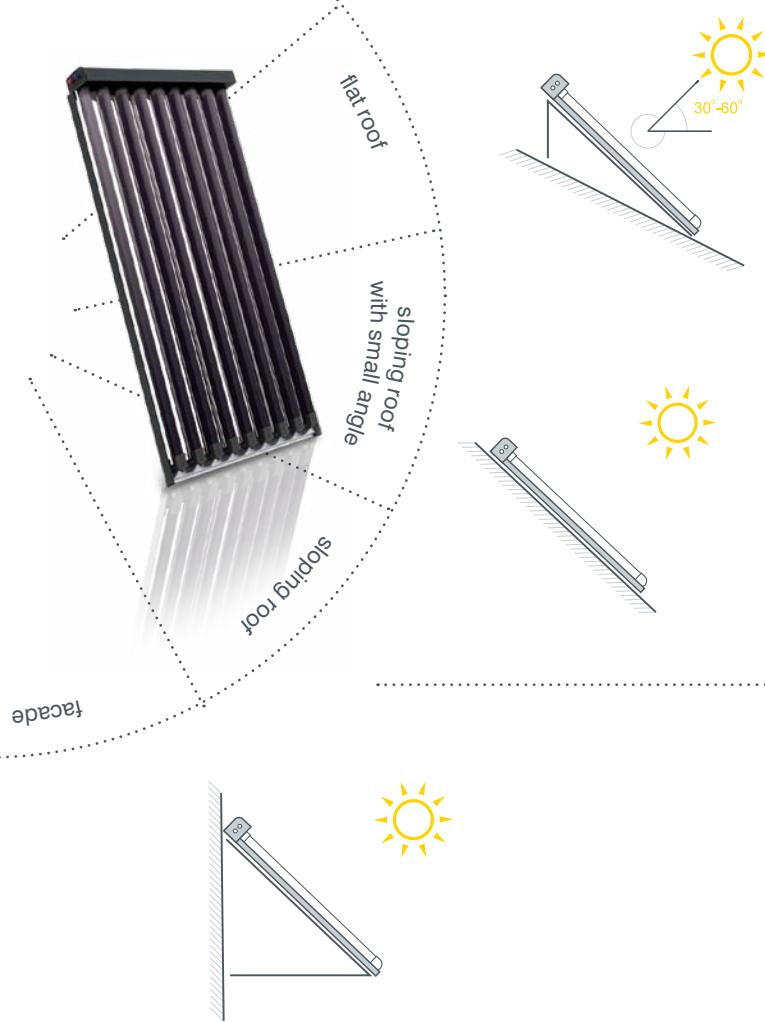
Solar collectors achieve full efficiency when directed to the sun. Optimum exposure is ensured when the panels face precisely due south. Any deviations from the axis or a west-east orientation will require additional installation parts to be used.



Selection of the inclination angle of the collectors in relation to the horizon has an impact on the collector efficiency throughout the year. It is recommended to install the collectors which are used in summer at the angle of 30 to 45°. Position of the sun in the winter requires the collectors to be set at an angle of 45 to 60 degrees.



FIXING SYSTEMS - vacuum solar collectors



Vacuum collectors with a parabolic mirror are bolted to the frame of the free-standing construction using easy-to-use bolts. The stable construction combines one to five collectors into sections. Thanks to the multi-purpose mounting feet the free-standing construction can be placed both on a flat roof or next to the building.



The load bearing frame combines one to five vacuum collectors into sections. The rigid construction is fastened by using "S+L" type (for sloped tile roofs) or "L" type clips (for roofs covered with sheet or roofing paper). Such an installation method prevents snow from accumulating on the roof.



Vacuum collectors installed on building facades can be fastened directly to the wall or with the use of an inverted free-standing construction. Standard mounting feet or "L" type clips should be used for installation purposes. This makes the solar system an aesthetic part of the modern architecture.

SOLAR ACCESSORIES



Take care of the
nature together
with Mr Helius

eXpert





Watt Academy *higher art installation*

As an expert in solar technologies we know that the proper selection of auxiliary parts is a prerequisite for smooth operation of the system. Solar accessories of eSens series is a set of accessories necessary to expand or modernize any solar system. The eSens catalogue includes a set of additional parts which help in construction of complex systems configured in line with the requirements of our customers.

We present a wide offer of compression and threaded brass unions, solar controllers, expansion vessels, heaters, magnesium anodes, solar covering and swimming pool heat exchangers. With a view to safe operation we have developed a safety group to the tank which comprises a complete set protecting the system from excessive pressure surge.

The use of the highest quality materials makes our products resistant to high temperatures and weather conditions. All parts of eSens solar systems have been designed so that the users could introduce changes into the original system structure. However, it is recommended that the installation of the solar accessories is carried out by experienced professionals from Watt Academy to be assured of proper operation. They can assist our customers in designing, expansion and improvement of their solar systems.

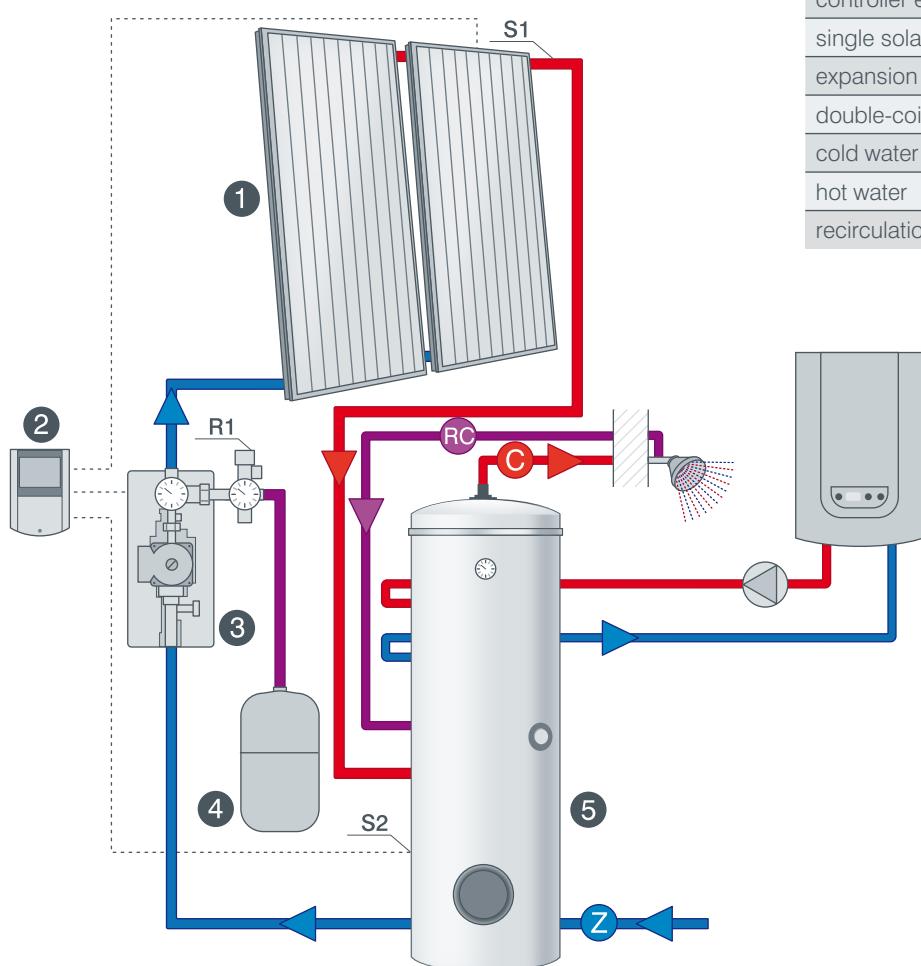


Familiarity with basic installation principles is required to properly select and install the solar collectors. Non-fulfilment of that condition may lead to reduced efficiency of the system or even cause permanent damage. Therefore, it is advised that the installation of the solar collectors is done by experienced professionals from Watt Academy to be assured of flawless operation of the collectors for many years. Watt Academy is an institution which educates professionals in installation of solar collectors. The comprehensive educational workshop-based programme provides the participants with important skills in selection, configuration and installation of solar systems. Services provided by our Watt Academy-certified installation technicians ensure trouble-free operation of the systems.

The diagram of the most popular system including two WATT 3020 S flat-plate collectors shows a proposal of utilizing solar energy to heat domestic water. A double-coil tank of the capacity of 300 litres is supplied with heat from two solar panels connected to the bottom coil. A single solar group with a separator and a rotameter ensures circulation of the heat transfer medium at the rate of 2 - 15 l/min. The thermometer (R1) indicates the inlet temperature on the collector. The expansion vessel with the 6 bar safety valve protects the system from an uncontrolled pressure surge. The system is controlled by a controller featuring the captured energy calculation function.

flat-plate collector installation diagram

solar collectors WATT 3020 S L	1
controller e360°	2
single solar group	3
expansion vessel	4
double-coil hot utility water heater 300 l	5
cold water	Z
hot water	C
recirculation	RC





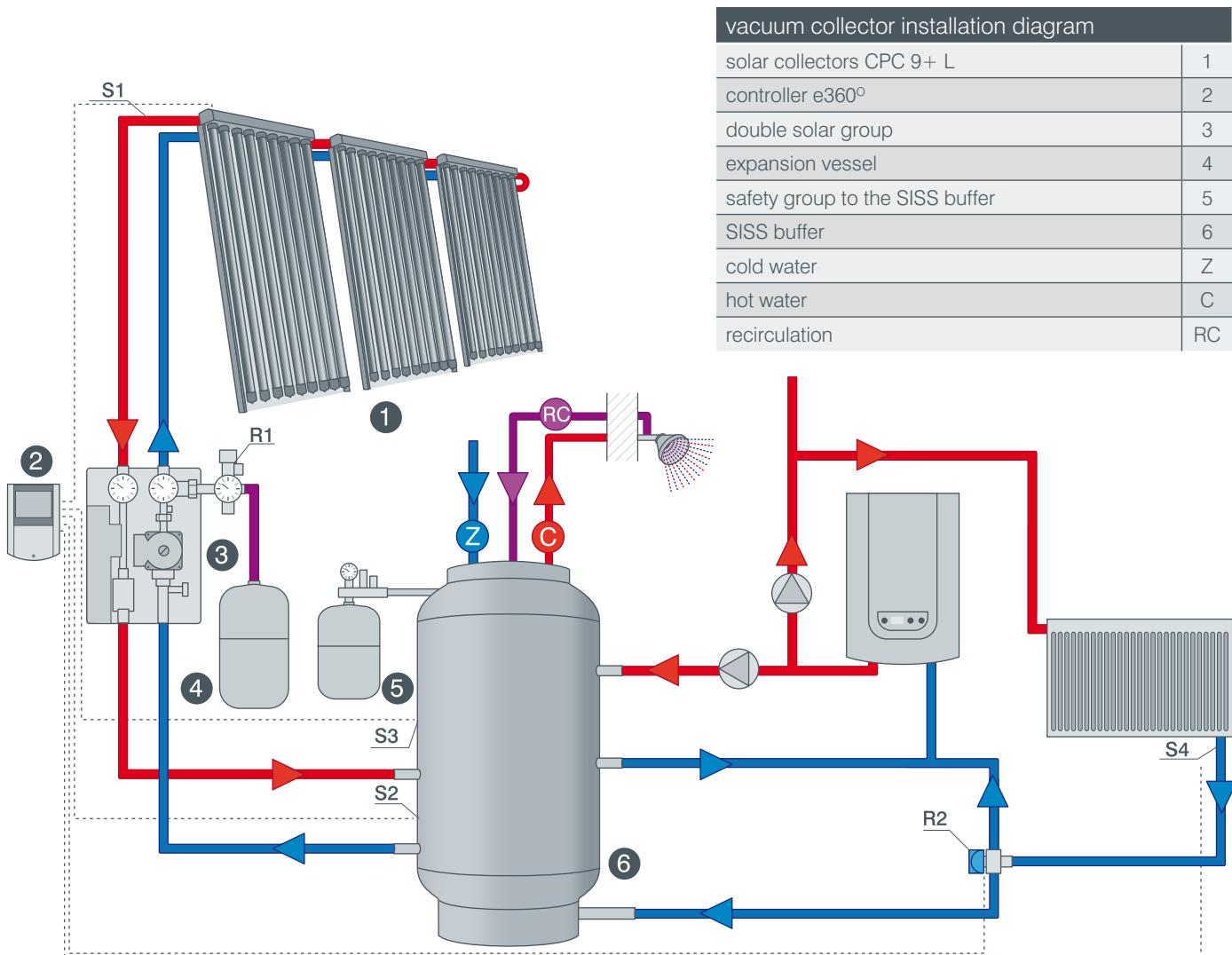
Participate! Sign up!

Join the Watt Academy and the best installers of solar systems in Poland. Log in to Watt Academy now, in order to get the full access to our service. The Academy is in Polish language.



www.akademia.watt.pl

Diagram of a solar system intended for heating the utility water and supporting the low-temperature central heating system. Three vacuum collectors intended for all-season use are connected to the bottom coil of the buffer of the „tank in tank” type. Circulation of the heated medium in the part related to the central heating system is controlled by 3-way valves. The SISS tank is equipped with its own safety group. The solar system incorporates a double solar group and an expansion vessel to guarantee proper circulation of the heat transfer medium. The controller serves as a system controller, working hour and energy balance counter and enables operation with a personal computer.



eWATT S 202 / code 00-0010

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT 3020 SL flat-plate solar collector	2 pcs	2 pcs	2 pcs
	double-coil hot domestic water heater HT 200 ERR	200 l	200 l	
	painted roof fixing	2 pcs		2 pcs
	painted free-standing construction		2 pcs	2 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT S 302 / code 00-0012

application:



components	configurations	
	Roof fixing and tank	Free-standing construction and tank
	WATT 3020 SL flat-plate solar collector	2 pcs
	double-coil hot domestic water heater HT 300 ERR	300 l
	painted roof fixing	2 pcs
	painted free-standing construction	2 pcs
	solar accessories /description: see table on pages 26-27	●

eWATT S 303 / code 00-0020

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT 3020 SL flat-plate solar collector	3 pcs	3 pcs	3 pcs
	double-coil hot domestic water heater HT 300 ERR	300 l	300 l	
	painted roof fixing	3 pcs		3 pcs
	painted free-standing construction		3 pcs	3 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

SOLAR SETS

eWATT S 404 / code 00-0024

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing contruction without tank
WATT 3020 SL flat-plate solar collector	4 pcs	4 pcs	4 pcs	4 pcs
double-coil hot domestic water heater HT 400 ERR	400 l	400 l		
painted roof fixing	4 pcs		4 pcs	
painted free-standing construction		4 pcs		4 pcs
solar accessories /description: see table on pages 26-27	●	●	●	●

eWATT S 505 / code 00-0030

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing contruction without tank
WATT 3020 SL flat-plate solar collector	5 pcs	5 pcs	5 pcs	5 pcs
double-coil hot domestic water heater HT 500 ERR	500 l	500 l		
painted roof fixing	5 pcs		5 pcs	
painted free-standing construction		5 pcs		5 pcs
solar accessories /description: see table on pages 26-27	●	●	●	●

eWATT CPC 202 / code 00-0110

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing contruction without tank
WATT CPC 9+ L vacuum solar collector	2 pcs	2 pcs	2 pcs	2 pcs
double-coil hot domestic water heater HT 200 ERR	200 l	200 l		
painted roof fixing	2 pcs		2 pcs	
painted free-standing construction		2 pcs		2 pcs
solar accessories /description: see table on pages 26-27	●	●	●	●

eWATT CPC 302 / code 00-0140

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9+ L vacuum solar collector	2 pcs	2 pcs	2 pcs
	double-coil hot domestic water heater HT 300 ERR	300 l	300 l	
	painted roof fixing	2 pcs		2 pcs
	painted free-standing construction		2 pcs	
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT CPC 303 / code 00-0120

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9+ L vacuum solar collector	3 pcs	3 pcs	3 pcs
	double-coil hot domestic water heater HT 300 ERR	300 l	300 l	
	painted roof fixing	3 pcs		3 pcs
	painted free-standing construction		3 pcs	
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT CPC 404 / code 00-0123

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9 L vacuum solar collector	4 pcs	4 pcs	4 pcs
	double-coil hot domestic water heater HT 400 ERR	400 l	400 l	
	painted roof fixing	4 pcs		4 pcs
	painted free-standing construction		4 pcs	
	solar accessories /description: see table on pages 26-27	●	●	●

SOLAR SETS

eWATT CPC 505 / Nr. Kat 00-0130

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9 L vacuum solar collector	5 pcs	5 pcs	5 pcs
	double-coil hot domestic water heater HT 500 ERR	500 l	500 l	
	painted roof fixing	5 pcs		5 pcs
	painted free-standing construction		5 pcs	5 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT DUO ECONOMY / code 00-0210

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9+ L vacuum solar collector	3 pcs	3 pcs	3 pcs
	SISS 350/100 double coil buffer	350/100 l	350/100 l	
	painted roof fixing	3 pcs		3 pcs
	painted free-standing construction		3 pcs	3 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT DUO MEDIUM / code 00-0220

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9 L vacuum solar collector	5 pcs	5 pcs	5 pcs
	SISS 500/150 double coil buffer	500/150 l	500/150 l	
	painted roof fixing	5 pcs		5 pcs
	painted free-standing construction		5 pcs	5 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT DUO BIG / code 00-0230

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 15 L vacuum solar collector	4 pcs	4 pcs	4 pcs
	SISS 750/150 double coil buffer	750/150 l	750/150 l	
	painted roof fixing	4 pcs		4 pcs
	painted free-standing construction		4 pcs	4 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT DUO MEGA / code 00-0240

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9 L vacuum solar collector	8 pcs	8 pcs	8 pcs
	SISS 900/200 double coil buffer	900/200 l	900/200 l	
	painted roof fixing	8 pcs		8 pcs
	painted free-standing construction		8 pcs	8 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT S 302 VIP / code 90-5002

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT 4020 SL flat-plate solar collector	2 pcs	2 pcs	2 pcs
	double-coil hot domestic water heater HT 300 ERR	300 l	300 l	
	painted roof fixing	2 pcs		2 pcs
	painted free-standing construction		2 pcs	2 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

SOLAR SETS

eWATT S 303 VIP / code 90-5003

application:



titanium anode
warranty
10
years
for tanks

components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
WATT 4020 SL flat-plate solar collector	3 pcs	3 pcs	3 pcs	3 pcs
double-coil hot domestic water heater HT 300 ERR	300 l	300 l		
painted roof fixing	3 pcs		3 pcs	
painted free-standing construction		3 pcs		3 pcs
solar accessories /description: see table on pages 26-27	●	●	●	●

eWATT S 404 VIP / code 90-5008

application:



titanium anode
warranty
10
years
for tanks

components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
WATT 4020 SL flat-plate solar collector	4 pcs	4 pcs	4 pcs	4 pcs
double-coil hot domestic water heater HT 400 ERR	400 l	400 l		
painted roof fixing	4 pcs		4 pcs	
painted free-standing construction		4 pcs		4 pcs
solar accessories /description: see table on pages 26-27	●	●	●	●

eWATT S 505 VIP / code 90-5006

application:



titanium anode
warranty
10
years
for tanks

components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
WATT 4020 SL flat-plate solar collector	5 pcs	5 pcs	5 pcs	5 pcs
double-coil hot domestic water heater HT 500 ERR	500 l	500 l		
painted roof fixing	5 pcs		5 pcs	
painted free-standing construction		5 pcs		5 pcs
solar accessories /description: see table on pages 26-27	●	●	●	●

eWATT CPC 302 VIP / code 90-5012

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9+ L vacuum solar collector	2 pcs	2 pcs	2 pcs
	double-coil hot domestic water heater HT 300 ERR	300 l	300 l	
	painted roof fixing	2 pcs		2 pcs
	painted free-standing construction		2 pcs	2 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT CPC 303 VIP / code 90-5013

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9+ L vacuum solar collector	3 pcs	3 pcs	3 pcs
	double-coil hot domestic water heater HT 300 ERR	300 l	300 l	
	painted roof fixing	3 pcs		3 pcs
	painted free-standing construction		3 pcs	3 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

eWATT CPC 404 VIP / code 90-5018

application:



components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
	WATT CPC 9 L vacuum solar collector	4 pcs	4 pcs	4 pcs
	double-coil hot domestic water heater HT 400 ERR	400 l	400 l	
	painted roof fixing	4 pcs		4 pcs
	painted free-standing construction		4 pcs	4 pcs
	solar accessories /description: see table on pages 26-27	●	●	●

SOLAR SETS

eWATT CPC 505 VIP / code 90-5016

application:



titanium
anode

warranty
10
years
for tanks

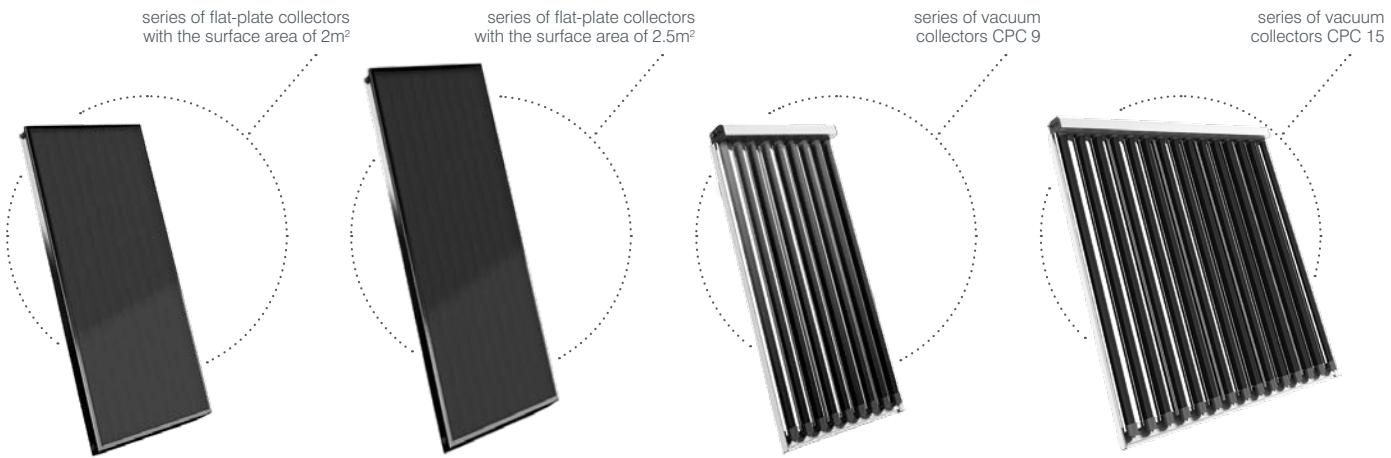
components	configurations			
	Roof fixing and tank	Free-standing construction and tank	Roof fixing without tank	Free-standing construction without tank
WATT CPC 9 L vacuum solar collector	5 pcs	5 pcs	5 pcs	5 pcs
double-coil hot domestic water heater HT 500 ERR	500 l	500 l		
painted roof fixing	5 pcs		5 pcs	
painted free-standing construction		5 pcs		5 pcs
solar accessories /description: see table on pages 26-27	●	●	●	●

The table includes information on the configuration of the solar accessories for a selected set of solar collectors.

		code												
		name of part												
code	name of set	installation set for 2 flat-plate collectors S	installation set for 3 flat-plate collectors S	installation set for 4 flat-plate collectors S	installation set for 5 flat-plate collectors S	liquid for collectors e` SOL 20 l	controller	single solar group	double solar group	set for connecting the single solar group with heater	set for connecting the single solar group with heater	set for connecting the double solar group with heater	set for connecting the double solar group with heater	set for connecting the double solar group with heater
00-0010	eWATT S 202	●				●	●			●				
00-0012	eWATT S 302	●				●	●			●				
00-0020	eWATT S 303		●			●	●	●		●				
00-0024	eWATT S 404			●		●	●	●			●			
00-0030	eWATT S 505				●	●	●	●			●			
00-0110	eWATT CPC 202					●	●		●			●		
00-0140	eWATT CPC 302					●	●		●			●		
00-0120	eWATT CPC 303					●	●		●				●	
00-0123	eWATT CPC 404					●	●	●	●					●
00-0130	eWATT CPC 505					●	●		●				●	
00-0210	eWATT DUO ECONOMY					●	●	●	●				●	
00-0220	eWATT DUO MEDIUM					●	●		●				●	
00-0230	eWATT DUO BIG					●	●		●				●	
00-0240	eWATT DUO MEGA					●	●		●				●	
90-5002	eWATT S 302 VIP	●				●	●	●	●	●				
90-5003	eWATT S 303 VIP		●			●	●	●		●				
90-5008	eWATT S 404 VIP			●		●	●	●	●	●				
90-5006	eWATT S 505 VIP				●	●	●	●				●		
90-5012	eWATT CPC 302 VIP					●	●		●	●			●	
90-5013	eWATT CPC 303 VIP					●	●		●	●			●	
90-5018	eWATT CPC 404 VIP					●	●	●	●	●			●	
90-5016	eWATT CPC 505 VIP					●	●		●	●			●	

SOLAR SETS

	vessel for collectors 18 l	06 - 0201
●	vessel for collectors 24 l	06 - 0202
●	vessel for collectors 35 l	06 - 0203
	vessel for collectors 50 l	06 - 0204
	vessel for collectors 80 l	06 - 0205
	vessel for collectors 100 l	06 - 0206
●	band for the vessel	06 - 0308
	expansion tank connection hose	06 - 0402
	coupling for the vessel $\frac{3}{4}$ "	06 - 0403
	solar covering for copper pipes 15mm	06 - 2001
	solar covering for copper pipes 18mm	06 - 2002
	solar covering for copper pipes 22mm	06 - 2003
	sleeve clamping coupling 15 mm	05 - 1010
	clamping lateral stopper 15/15 mm	05 - 1011
	plastic protection back plug	05 - 1020
	reducer 15 mm -18 mm	06 - 0001
	reducer 22 mm -15 mm	06 - 0002
	collector coupling covering	06 - 2101
	3-way switching valve	06 - 0611



Flat-plate and vacuum collectors of eSens series stand out for their high quality achieved with the new production methods which ensure durability and reliability of the entire system.

The table presents the specification of Watt flat-plate collectors according to their names.

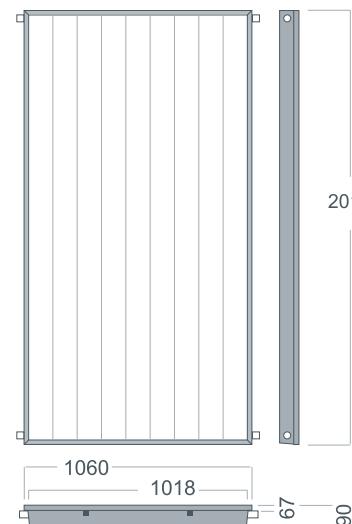
series	specification	warranty
20xx	laser welding, aluminum absorber BlueTec, copper coil (9 pipes), solar glass	10 years
30xx	soldering, copper absorber BlueTec, coppercoil (10 pipes), solar glass	15 years
40xx	soldering, copper absorber BlueTec, coppercoil (10 pipes), antireflective glass (3 mm)	15 years
50xx	soldering, copper absorber BlueTec, coppercoil (10 pipes), antireflective glass (4 mm)	15 years
70xx	soldering, copper absorber BlueTec, coppercoil (9 pipes), solar glass	10 years
xx20	means collector's surface 2 m ²	
xx25	means collector's surface 2,5 m ²	
xx51	means collector's surface 2,57 m ²	

The tables include specifications of essential parameters for flat-plate and vacuum collectors.

collector	width (mm)	height (mm)	depth (mm)	empty collector mass (kg)	transparent covering thickness (mm)	gross collector area (m ²)	efficiency coefficient (η_0)	absorber area (m ²)	agent flux through collector (l/min)	copper pipe system	warranty (years)	SOLAR KEYMARK	painted version	version for in-roof installation
WATT 2020 S	2018	1018	90	33,8	3	2,04	0,756	1,88	1	n/d	10	•	•	•
WATT 2251 S	2167	1187	90	41,8	3	2,57	0,753	2,39	1	n/d	10	•	•	n/d
WATT 3020 S	2018	1018	90	39	3	2,054	0,784	1,873	1	n/d	15	•	•	•
WATT 3025 S	2518	1018	90	45	3	2,556	0,785	2,354	1,5	n/d	15	•	•	•
WATT 4020 S	2018	1018	90	39	3	2,054	0,845	1,873	1,5	n/d	15	•	•	•
WATT 5020 S	2018	1018	90	47,5	4	2,05	0,816	1,9	2	n/d	15	•	•	•
WATT 5025 S	2518	1018	90	57	4	2,56	0,83	2,36	2	n/d	15	•	•	•
WATT 7020 S	2018	1018	90	36,6	3	2,057	0,755	1,852	1,1	n/d	10	•	•	•
WATT CPC 9	1930	1120	122	32	n/d	2,14	0,564	n/d	1	U pipe	10	•	•	n/d
WATT CPC 9+	1930	1120	122	31	n/d	2,038	0,611	n/d	1	U pipe	10	•	•	n/d
WATT CPC 15	1930	1835	122	51	n/d	3,544	0,573	n/d	1,5	U pipe	10	•	•	n/d
WATT CPC 15+	1930	1835	122	50,9	n/d	3,38	0,575	n/d	1,5	U pipe	10	•	•	n/d

SOLAR COLLECTORS

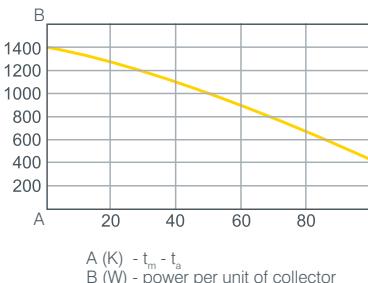
WATT 2020 S flat-plate solar collector



standards / certificates:

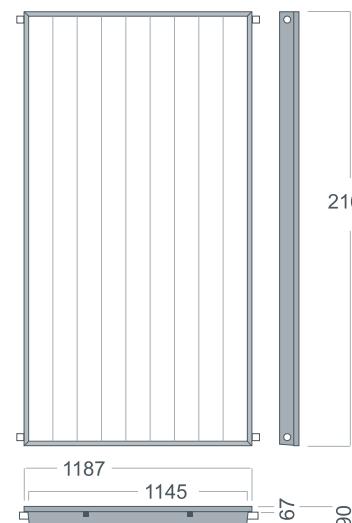
empty collector mass	33,8 kg
transparent covering thickness	3 mm
gross collector area	2,04 m ²
absorber area	1,88 m ²
absorber	ETA PLUS AL – BlueTec
absorption / emission	95% / 5%
absorber connection	laser
efficiency coefficient	$\eta_0 - 0,756$
agent flux through collector	1 l/min.
heat loss coefficient	3,545 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK



collector configurations	aluminum housing /S/	painted housing /SL/	version for in-roof installation /SRL/
code	01 - 3201	01 - 3251	01 - 3255

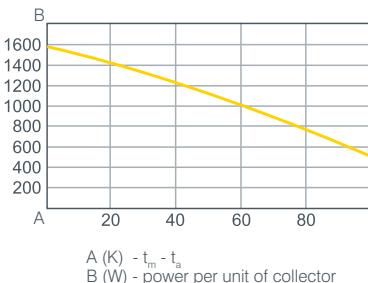
WATT 2251 S flat-plate solar collector



standards / certificates:

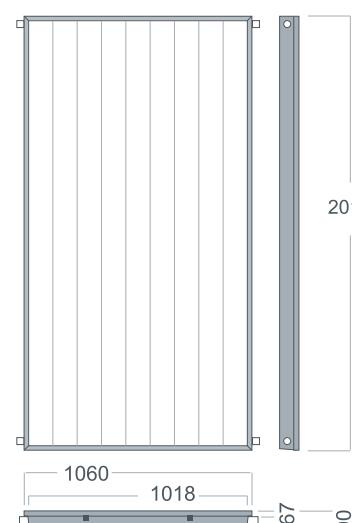
empty collector mass	41,8 kg
transparent covering thickness	3 mm
gross collector area	2,57 m ²
absorber area	2,39 m ²
absorber	ETA PLUS – BlueTec
absorption / emission	95% / 5%
absorber connection	laser
efficiency coefficient	$\eta_0 - 0,753$
agent flux through collector	1 l/min.
heat loss coefficient	3,396 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK



collector configurations	aluminum housing /S/	painted housing /SL/
code	01 - 3256	01 - 3257

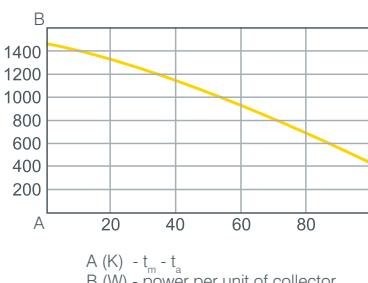
WATT 3020 S flat-plate solar collector



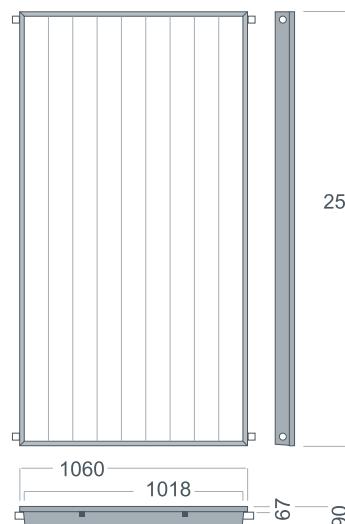
standards / certificates:

empty collector mass	39 kg
transparent covering thickness	3 mm
gross collector area	2,054 m ²
absorber area	1,873 m ²
absorber	ETA PLUS – BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$\eta_0 - 0,784$
agent flux through collector	1 l/min.
heat loss coefficient	3,64 W/(m ² K)
casing	aluminum
life	25 years
warranty	1 years

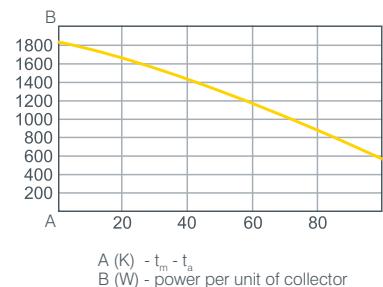
EN 12975 / SOLAR KEYMARK



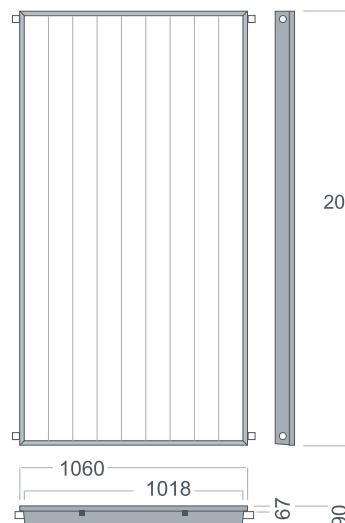
collector configurations	aluminum housing /S/	painted housing /SL/	version for in-roof installation /SRL/
code	01 - 3301	01 - 3351	01 - 3355

WATT 3025 S flat-plate solar collector

standards / certificates:

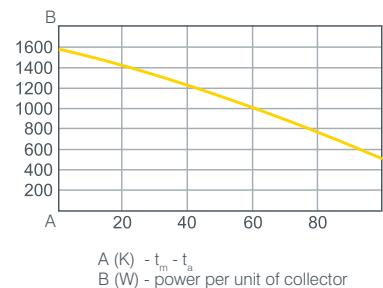
empty collector mass	45 kg
transparent covering thickness	3 mm
gross collector area	2,556 m ²
absorber area	2,354 m ²
absorber	ETA PLUS – BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$n_0 - 0,785$
agent flux through collector	1,5 l/min.
heat loss coefficient	3,66 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK


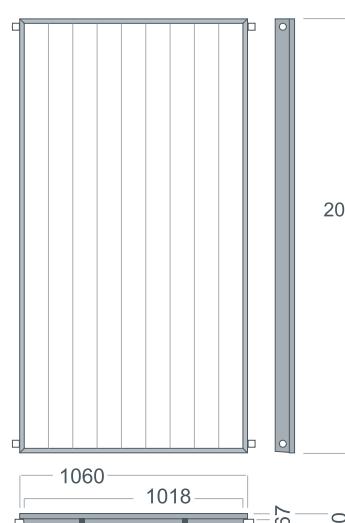
collector configurations	aluminum housing /S/	painted housing /SL/	version for in-roof installation /SRL/
code	01 - 3316	01 - 3366	01 - 3369

WATT 4020 S flat-plate solar collector

standards / certificates:

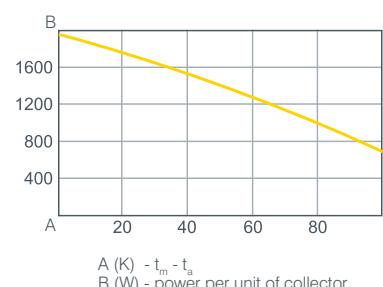
empty collector mass	39 kg
transparent covering thickness	3 mm
gross collector area	2,054 m ²
absorber area	1,873 m ²
absorber	ETA PLUS – BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$n_0 - 0,845$
agent flux through collector	2 l/min.
heat loss coefficient	4,10 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK


collector configurations	aluminum housing /S/	painted housing /SL/	version for in-roof installation /SRL/
code	01 - 3401	01 - 3451	01 - 3455

WATT 5020 S flat-plate solar collector

standards / certificates:

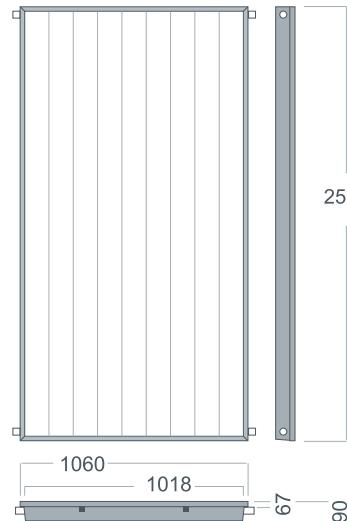
empty collector mass	47,47 kg
transparent covering thickness	4 mm
gross collector area	2,05 m ²
absorber area	1,9 m ²
absorber	1 plyta ETA PLUS – BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$n_0 - 0,816$
agent flux through collector	2 l/min.
heat loss coefficient	4,203 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK


collector configurations	aluminum housing /S/	painted housing /SL/
code	01 - 3501	01-3551

SOLAR COLLECTORS

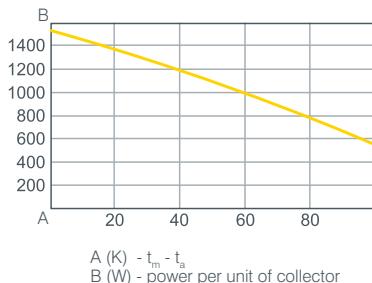
WATT 5025 S flat-plate solar collector



standards / certificates:

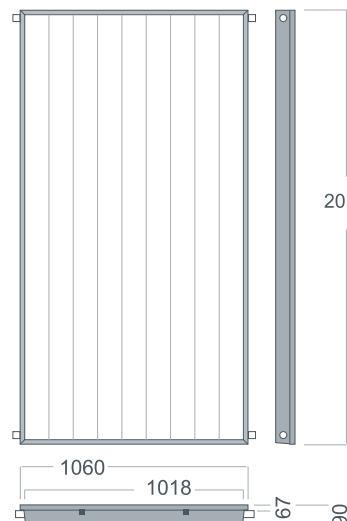
empty collector mass	57
transparent covering thickness	4 mm
gross collector area	2,56 m ²
absorber area	2,36 m ²
absorber	1 plyta ETA PLUS – BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$\eta_0 - 0,83$
agent flux through collector	2 l/min.
heat loss coefficient	3,933 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK



collector configurations		aluminum housing /S/		painted housing /SL/
code	01 - 3516		01-3566	

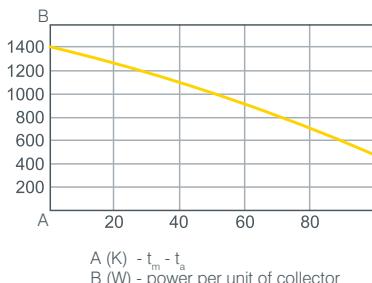
WATT 7020 S flat-plate solar collector



standards / certificates:

empty collector mass	36,6 kg
transparent covering thickness	3 mm
gross collector area	2,057 m ²
absorber area	1,852 m ²
absorber	ETA PLUS-BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$\eta_0 - 0,755$
agent flux through collector	1,1 l/min.
heat loss coefficient	3,38 W/ (m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK



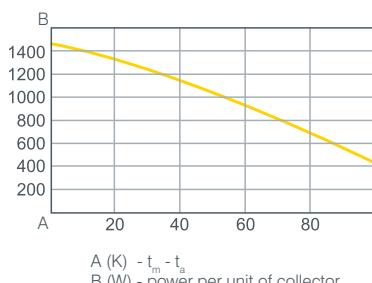
collector configurations		aluminum housing /S/		painted housing /SL/
code	01 - 3701		01-3751	

WATT 3020 S (P) horizontal flat-plate solar collector standards / certificates:



empty collector mass	39 kg
transparent covering thickness	3 mm
gross collector area	2,054 m ²
absorber area	1,873 m ²
absorber	ETA PLUS-BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$\eta_0 - 0,784$
agent flux through collector	1,1 l/min.
heat loss coefficient	3,64 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

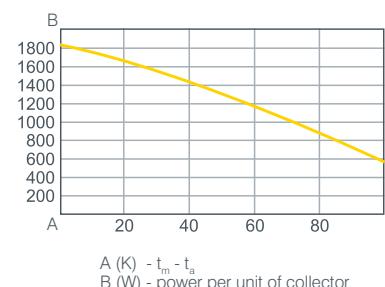
EN 12975 / SOLAR KEYMARK



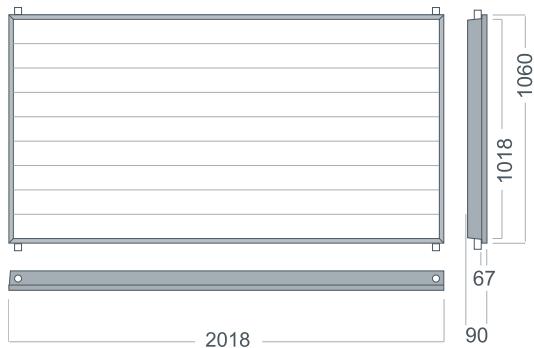
collector configurations		aluminum housing /S/		painted housing /SL/
code	01 - 3313		01-3363	

WATT 3025 S (P) horizontal flat-plate solar collector standards / certificates:

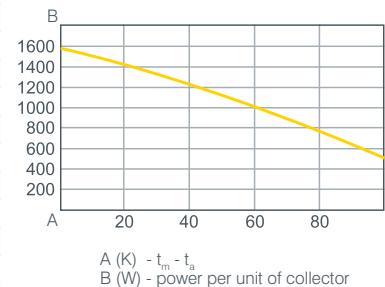

empty collector mass	45 kg
transparent covering thickness	3 mm
gross collector area	2,556 m ²
absorber area	2,354 m ²
absorber	ETA PLUS-BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$n_0 - 0,785$
agent flux through collector	1,5 l/min.
heat loss coefficient	3,66 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK


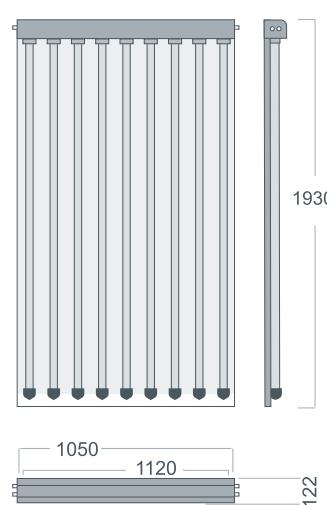
collector configurations		aluminum housing /S/		painted housing /SL/
code		01 - 3325		01-3375

WATT 4020 S (P) horizontal flat-plate solar collector standards / certificates:


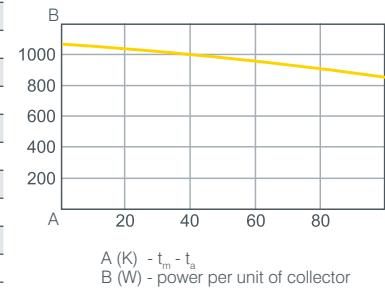
empty collector mass	39 kg
transparent covering thickness	3 mm
gross collector area	2,054 m ²
absorber area	1,873 m ²
absorber	ETA PLUS-BlueTec
absorption / emission	95% / 5%
absorber connection	solder
efficiency coefficient	$n_0 - 0,845$
agent flux through collector	1,1 l/min.
heat loss coefficient	4,10 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK


collector configurations		aluminum housing /S/		painted housing /SL/
code		01 - 3413		01-3475

WATT CPC 9 vacuum solar collector
standards / certificates:


empty collector mass	32 kg
vacuum glass tube	borosilicate glass 3.3
gross collector area	2,14 m ²
absorber area	1,897 m ²
absorber	aluminium nitrite 95% / 5%
copper pipe system	U-pipe
insulation	Vacuum / Isover
efficiency coefficient	$n_0 - 0,564$
agent flux through collector	1 l/min
heat loss coefficient	0,86 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

EN 12975 / SOLAR KEYMARK


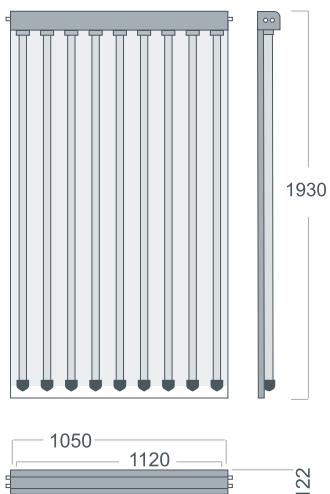
collector configurations		aluminum housing		painted housing /L/
code		01 - 8201		01-8203

SOLAR COLLECTORS

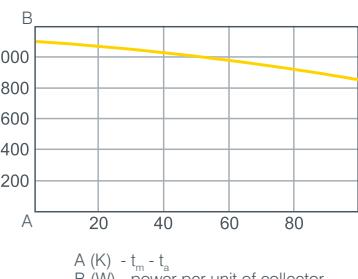
WATT CPC 9+ vacuum solar collector

standards / certficates:

EN 12975 / SOLAR KEYMARK



empty collector mass	31 kg
vacuum glass tube	borosilicate glass 3.3
gross collector area	2,038 m ²
absorber area	1,805 m ²
absorber	aluminium nitrite 95% / 5%
copper pipe system	U-pipe
insulation	Vacuum / Isover
efficiency coefficient	$n_0 - 0,611$
agent flux through collector	1 l/min
heat loss coefficient	0,84 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

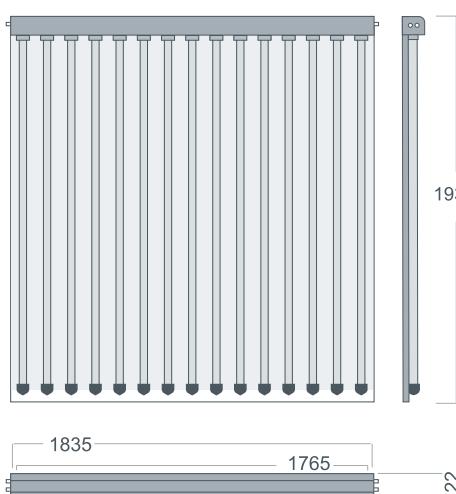


collector configurations	aluminum housing	painted housing
code	01 - 8401	01 - 8403

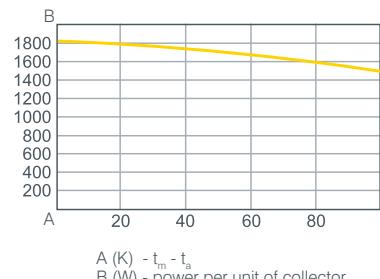
WATT CPC 15 vacuum solar collector

standards / certficates:

EN 12975 / SOLAR KEYMARK



empty collector mass	51 kg
vacuum glass tube	borosilicate glass 3.3
gross collector area	3,544 m ²
absorber area	3,174 m ²
absorber	aluminium nitrite 95% / 5%
copper pipe system	U-pipe
insulation	Vacuum / Isover
efficiency coefficient	$n_0 - 0,573$
agent flux through collector	1,5 l/min
heat loss coefficient	0,40 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years

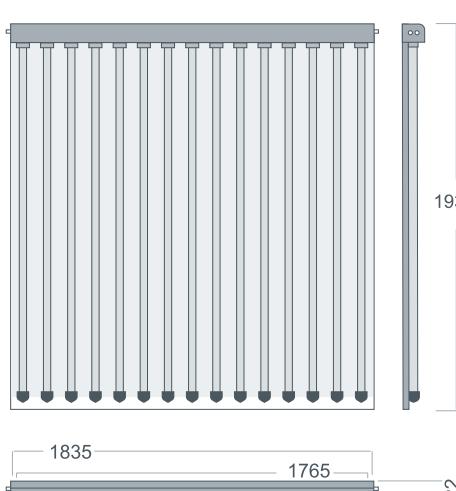


collector configurations	aluminum housing	painted housing
code	01 - 8202	01 - 8204

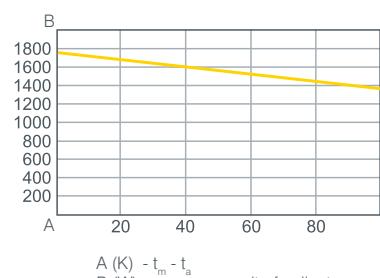
WATT CPC 15+ vacuum solar collector

standards / certficates:

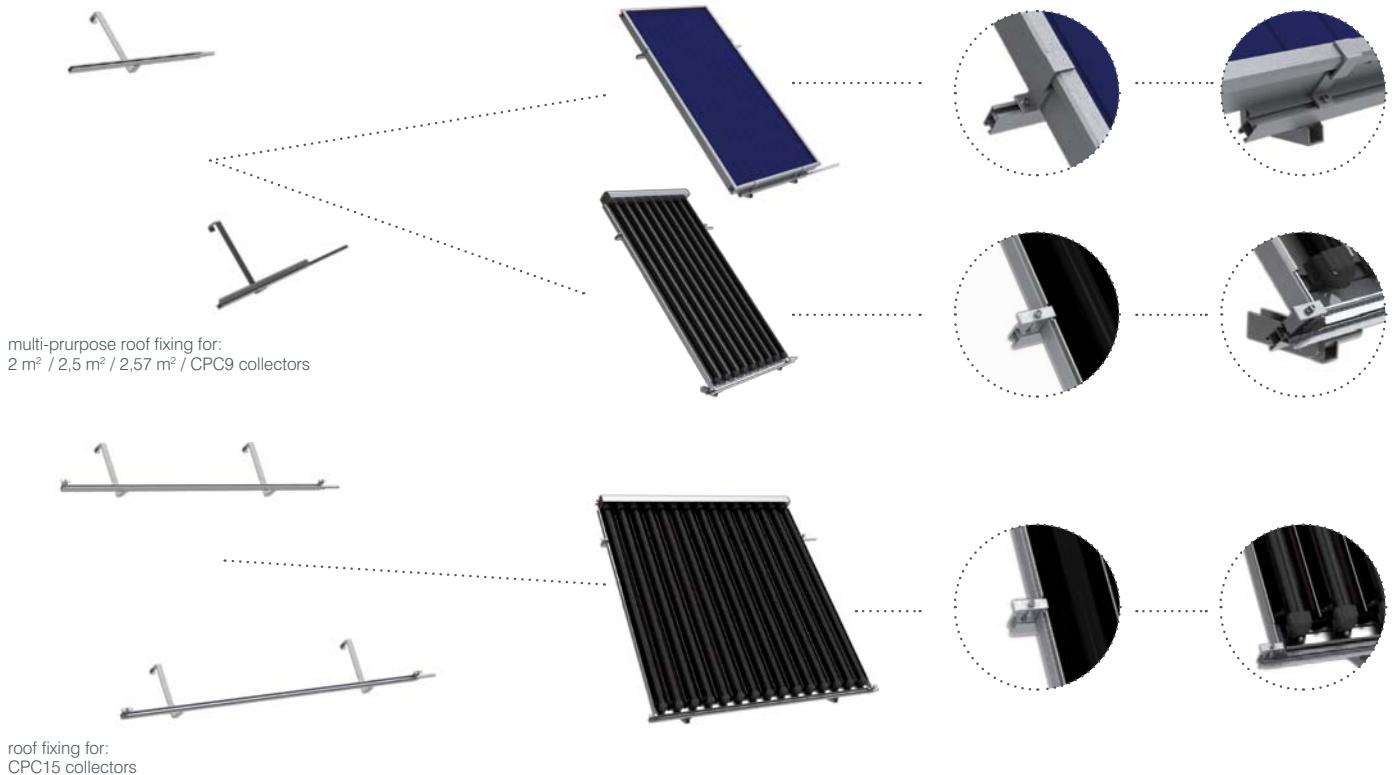
EN 12975 / SOLAR KEYMARK



empty collector mass	50,9 kg
vacuum glass tube	borosilicate glass 3.3
gross collector area	3,38 m ²
absorber area	3,05 m ²
absorber	aluminium nitrite 95% / 5%
copper pipe system	U-pipe
insulation	Vacuum / Isover
efficiency coefficient	$n_0 - 0,575$
agent flux through collector	1,5 l/min
heat loss coefficient	1,286 W/(m ² K)
casing	aluminum
life	25 years
warranty	10 years



collector configurations	aluminum housing	painted housing
code	01 - 8402	01 - 8404



The multi-purpose roof fixing for flat-plate collectors and vacuum collectors CPC9 is formed of robust aluminum sections. Frames to be used for fixing collectors with the area of 2.5 m² and collectors CPC15 are correspondingly larger. The fixings are also available as painted.

multi-purpose roof fixing					
fixing type	collector series	number of collectors	aluminum		painted
			code	code	code
multi-purpose	2 m ²	1	02 - 1041		02 - 1141
	2,5 m ²	1	02 - 1042		02 - 1142
	2,57 m ²	1	02 - 1043		02 - 1143
	CPC 9	1	02 - 1044		02 - 1144
	CPC 9 +	1	02 - 1045		02 - 1145
	CPC 15	1	02 - 1046		02 - 1146
	CPC 15 +	1	02 - 1047		02 - 1147



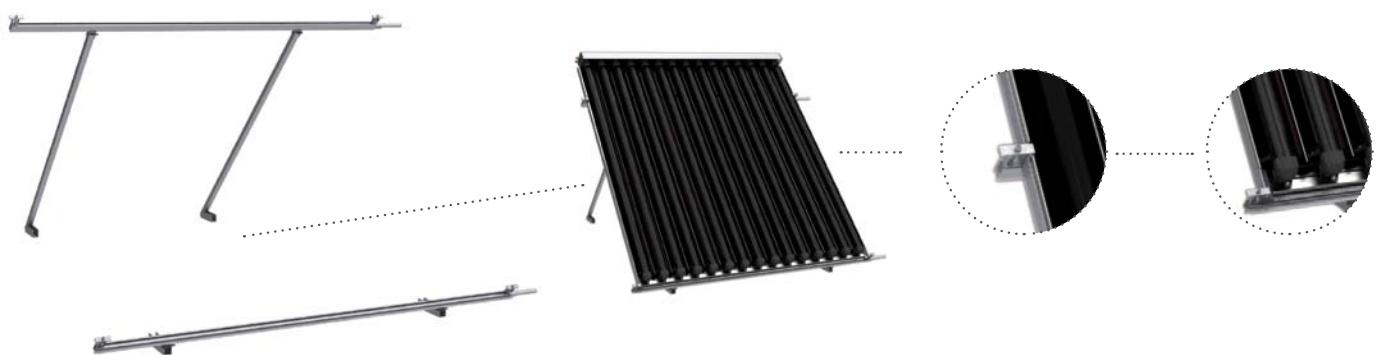
The set for in-roof installation enables the proper fixing of the flat-plate collectors. It is composed of a universal frame and dedicated fixings to fix the panels at a specific height above the roof surface.

set for in-roof installation				
fixing type	collector series	number of collectors	aluminum	painted
			code	
basic set for in-roof installation of a single collector	2m ²	1		02 - 3501
	2,5m ²	1		02 - 3502
supplementary set for in-roof installation of a next collector	2m ²	1 - kolejny		02 - 3506
	2,5m ²	1 - kolejny		02 - 3507

COLLECTOR INSTALLATION SYSTEMS /flat-plate and vacuum types/



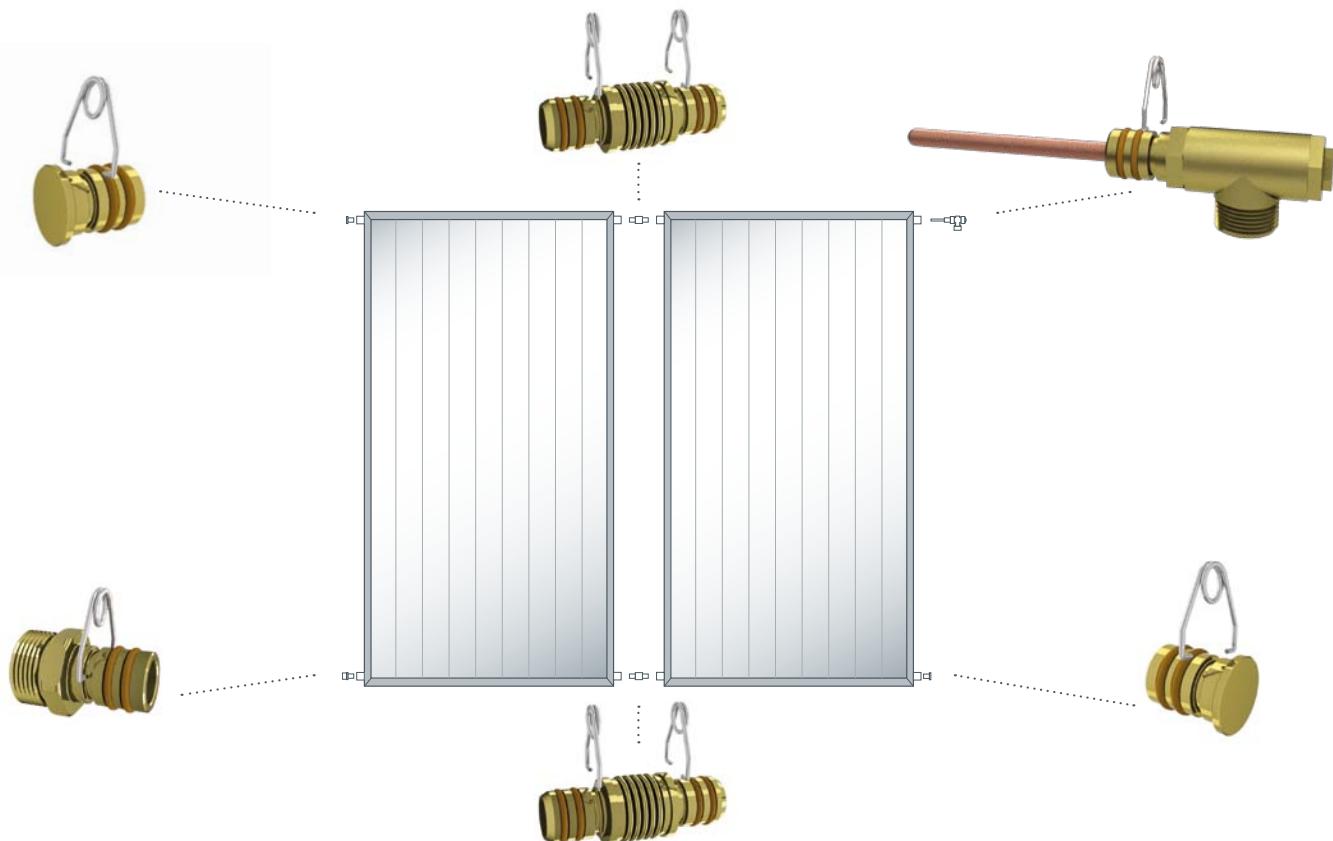
free-standing construction: 2 m² / 2,5 m² / 2,57 m² / CPC9 series



free-standing construction: CPC15 series

Free-standing construction enable safe installation of collectors in sections comprising one to five flat-plate or vacuum collectors. Each collector series has a corresponding free-standing structure adapted to it which allows adjustment of the inclination angle. Reinforced aluminum frame section is also available as painted.

free-standing construction						
fixing type	collector series	number of collectors		aluminum		painted
			code	code	code	code
multi-purpose	2 m ²	1		02 - 1051		02 - 1151
	2,5 m ²	1		02 - 1052		02 - 1152
	2,57 m ²	1		02 - 1053		02 - 1153
	CPC9	1		02 - 1054		02 - 1154
	CPC9 +	1		02 - 1055		02 - 1155
	CPC15	1		02 - 1056		02 - 1156
	CPC15 +	1		02 - 1057		02 - 1157



flat-plate collector connection set

collector type	installation type	number of collectors	code
"S" type flat-plate collector (quick-release coupling)	15 mm	2	04 - 0211
	18 mm	3	04 - 0212
	18 mm	4	04 - 0213
	22 mm	5	04 - 0214
"S" type flat-plate collector (quick-release coupling)	INOX 3/4"	2	04 - 0216
	INOX 3/4"	3	04 - 0217
	INOX 3/4"	4	04 - 0218
	INOX 3/4"	5	04 - 0219
"S" type flat-plate collector	15 mm	2	04 - 0101
	18 mm	3	04 - 0102
	18 mm	4	04 - 0103
	22 mm	5	04 - 0104
	INOX 3/4"	2	04 - 0181
	INOX 3/4"	3	04 - 0182
	INOX 3/4"	4	04 - 0183
	INOX 3/4"	5	04 - 0184
"S" type flat-plate collector for the in-roof installation	15 mm	2	04 - 0011
	18 mm	3	04 - 0012
	18 mm	4	04 - 0013
	22 mm	5	04 - 0014
	INOX 3/4"	2	04 - 0031
	INOX 3/4"	3	04 - 0032
	INOX 3/4"	4	04 - 0033
	INOX 3/4"	5	04 - 0034

flat-plate horizontal collector connection set

"S" type flat-plate collector	15 mm	1	04 - 0140
	15 mm	2	04 - 0141
	18 mm	3	04 - 0142

SOLAR SYSTEM ACCESSORIES /flat-plate and vacuum collectors/



controller e360°

	code
	06 - 0080
Module e360 Ethernet	06 - 0085
Module e360 GSM	06 - 0086

New! A multi-functional e360° controller with a touch control panel and a colour display to control two pumps, 4 temperature sensors and 10 operation programmes. Large, clear display to ensure easy operation, an intuitive icon-based interface, a number of predefined operation programmes, storage of parameters on a micro-SD card.

Optional connection of GSM or WAN module.

Menu languages: Polish, German, English, Dutch, Slovak, Czech, French, Italian, Hungarian, Turkish.



controller

type	code
ReSolWATT 2	06 - 0030
ReSolWATT Plus	06 - 0031
ReSolWATT ES	06 - 0032
ReSolWATT M	06 - 0035
ReSolWATT E	06 - 0036
SorelWATT 1	06 - 0070

Design of ResolWatt enables the connection of different heating systems. All models have sensor inputs and semi-conductor inputs in appropriate number and feature various options of operation programmes. Additionally, the devices are equipped with counters of working hours to control the system operating time.



WATT GSO solar group 2 - 15 l/min

type	code
single solar group with rotameter	06 - 0117
double solar group with rotameter	06 - 0112

Single WATT GSO solar group with a rotameter 2 - 15 l/min including Grundfos 25/60 pump, 6 bar safety valve, manometer, and thermometer.

Double WATT GSO solar group with a separator and a rotameter 2 - 15 l/min including Grundfos 25/60 pump, 6 bar safety valve, manometer, 2 thermometers, air separator, equipped with filling valve and draining valve.



set for filling, venting and cleaning solar systems

code
06 - 0119

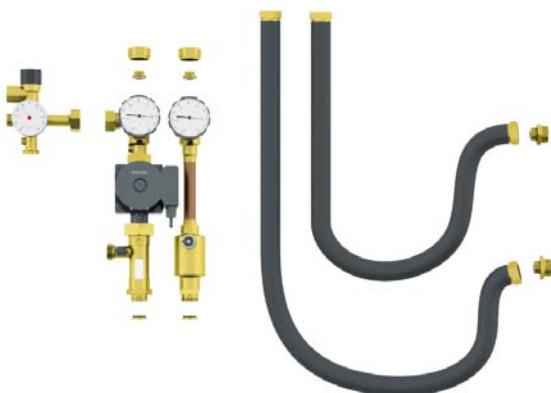
Solar system filling, venting and cleaning set. Very efficient pump of the following parameters: Qmax = 47 l/min and Hmax = 52 allow filling and venting of large solar systems.



single GSO solar group and tank connection set

installation type	code
15 mm	06 - 0141
18 mm	06 - 0142
22 mm	06 - 0143
AE for installation with hose INOX 3/4"	06 - 0162

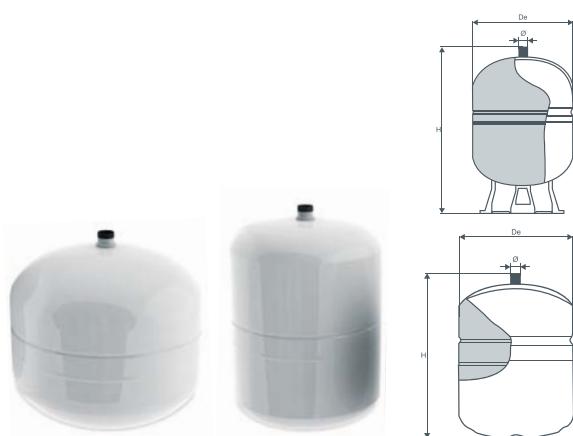
Single RegusolWATT solar group and tank connection set including stainless steel covered hose 1.5 m, flat face sealing insert and Regusol nipple, brass reducers and compression unions to connect the tank to the system.



double GSO solar group and tank connection set

installation type	code
15 mm	06 - 0145
18 mm	06 - 0146
22 mm	06 - 0147
AE for installation with hose INOX 3/4"	06 - 0165

Double RegusolWATT solar group and tank connection set including stainless steel covered hoses 1.5 m and 1 m, flat face sealing insert and Regusol nipple, brass reducers and compression unions to connect the tank to the system.



collector expansion vessels

capacity	\varnothing	De	H	code
18 l	3/4"	270 mm	410 mm	06 - 0201
24 l	3/4"	320 mm	355 mm	06 - 0202
35 l	3/4"	400 mm	390 mm	06 - 0203
50 l	3/4"	400 mm	500 mm	06 - 0204
80 l	3/4"	400 mm	840 mm	06 - 0205
100 l	3/4"	500 mm	795 mm	06 - 0206

Collector expansion vessels are available in capacities ranging from 18 to 100 litres. Individual models can be optionally equipped with a band.

safety group for SISS tanks

capacity	code
350 l	06 - 0301
500 l	06 - 0302
750 l	06 - 0303
900 l	06 - 0304



Safety group fastening console for SISS tanks. Equipped with manometer, vent, 3 bar safety valve and expansion vessel connector.

SOLAR SYSTEM ACCESSORIES /flat-plate and vacuum collectors/



safety group fastening console for SISS tanks

code
06 - 0307



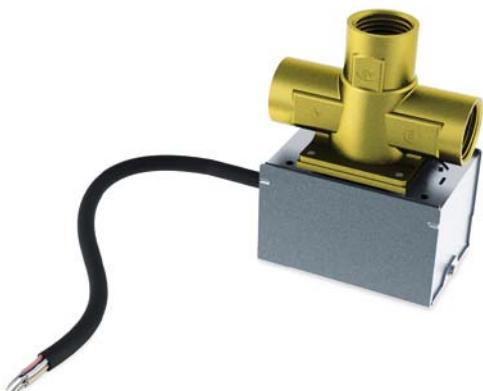
double insulated solar conduit
including electrical cable, nuts, seals and deforming bolt

type	length	code
DN 16	15 m	06 - 0540
DN 16	20 m	06 - 0541
DN 20	15 m	06 - 0545
DN 20	20 m	06 - 0546

Stainless steel conduit, type AISI 316L ensuring necessary flexibility and mechanical and chemical strength. EPDM insulation 13 mm thick to allow use in temperature between -40 and +175 degrees. A pcsV film coating provides protection from humidity, mechanical damage and UV radiation.

3-way GW switching valve

\varnothing	code
$3/4"$	06 - 0611
1"	06 - 0612



3-way GW switching valve for use in systems with two tanks and supporting a central heating system with control voltage of 230V AC, 50 Hz.

anti-burn valve 38°C-65°C 3/4" GW

code
06 - 0621



Anti-burn valve 38 - 65°C, $\varnothing 3/4"$ GW which allows maintaining the preset temperature within the range of 38 to 65 C and provides protection from burns.

double-thread bolt M8 x 120


amount	code
1	06 - 3026
4	06 - 3027

Four pieces of M8 x 120 mm double thread bolts to fasten a roof fixing or a free-standing construction to roof surface, providing tight connection.

clamp for flat plate collectors


type	code
aluminum	06 - 3016
painted	06 - 3017



The clamp for flat-plate collectors is used for installation of the flat-plate collector to the roof fixing or to the free standing construction.

stainless steel fixing


type	code
S+L	06 - 3005
universal	06 - 3006
S+	06 - 3007
new S+L	06 - 3020

Stainless steel fixing of „S+L” type to be used as 1 x „S” or 2 x „L” if cut.

Multi-purpose stainless steel roof fixing to provide adjustability in several ranges.

Stainless steel fixing of „S+” type to be used for connection to the free-standing construction (angle adjustment). For use on tile roofs

clamp type „T” for vacuum collectors

type	code
aluminum	06 - 3018
painted	06 - 3019



The clamp „T” type enables the installation of CPC collector to the roof fixing or to the free standing construction.

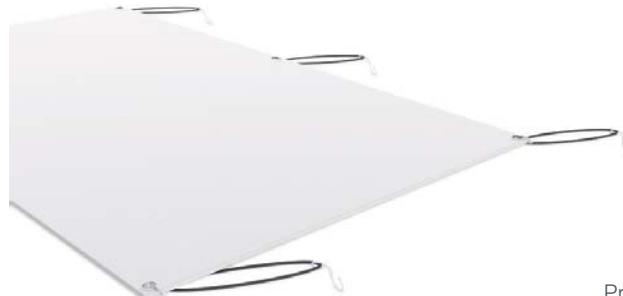
SOLAR SYSTEM ACCESSORIES /flat-plate and vacuum collectors/



solar insulation

size	code
9 x 15	06 - 2001
9 x 18	06 - 2002
9 x 22	06 - 2003
19 x 15	06 - 2008
19 x 18	06 - 2009
19 x 22	06 - 2010

Copper pipe solar insulation, 9 or 19 mm thick, available in 3 sizes.



protective cover

series	code
2 x / 2,5 x / CPC 9	06 - 2111
CPC 15	06 - 2112

Protective sun cover for WATT CPC 9, WATT 3020, and WATT 4020 collectors. Provides protection from overheating during absence of the occupants, installation or power failure.



twisted coupling REGUSOL

Ø	code
15 mm	06 - 3045
18 mm	06 - 3046
22 mm	06 - 3047

Regusol twisted clamp coupling used for fitting solar groups in installation.



refractometer

code
06 - 3050

Refractometer for testing the resistance of solar fluids to freezing.

code		
04 - 0203		collectors coupling 22 mm
04 - 0304		plug of temperature sensor 3/4"
04 - 0311		four way coupling with vent and cut-off valve
04 - 0312		three way coupling with vent and cut-off valve
04 - 0313		plug 22 mm
06 - 0130		liquid e`SOL - 20 l - for flat-plate and vacuum collectors
06 - 0132		liquid e`SOL - 10 l - for flat-plate and vacuum collectors
06 - 0134		liquid e`SOL - 5 l - for flat-plate and vacuum collectors
05 - 0599		air separator, 18°C 16bar, 15mm
05 - 0600		air separator, 18°C 16bar, 18mm
05 - 0601		air separator, 18°C 16bar, 22mm
05 - 0605		vent solar 15°C for 15mm pipe with ball valve and T-pipe
05 - 1010		sleeve clamping coupling 15mm
05 - 1011		clamping lateral stopper 15mm/15mm
05 - 1020		plastic protection lateral plug
05 - 1101		vacuum glass tube 1800mm for WATT CPC collectors
06 - 0001		reducer 18 mm - 15 mm
06 - 0002		reducer 22 mm - 15 mm
06 - 0003		reducer 22 mm - 18 mm
06 - 0004		reducer 22 mm - 28 mm
06 - 0006		coupling 3/4" male - 18 mm
06 - 0015		coupling 3/4" male - 15 mm wide forehead (for preisolated inox tubes)
06 - 0017		coupling 3/4" male - 22 mm wide forehead (for preisolated inox tubes)

SOLAR SYSTEM ACCESSORIES /flat-plate and vacuum collectors/

code		
06 - 0040		temperature sensor FKP6 (to the collector)
06 - 0041		temperature sensor FRP6 (to the tank)
06 - 0042		SP1 - overvoltage protection ReSolWATT
06 - 0043		4,0A ReSolWATT fuse
06 - 0045		ReSolWATT V40-15 rotameter
06 - 0046		ReSolWATT diagnostic software
06 - 0047		solar pump set for refilling, cleaning and vent solar systems
06 - 0118		safety group for RegusolWATT
06 - 0125		control valve with rotameter Ø ¾" / 2 - 7 l/min
06 - 0126		control valve with rotameter Ø ¾" / 7 - 28 l/min
06 - 0127		control valve with rotameter Ø 1" / 10 - 40 l/min
06 - 0128		connection RegusolWATT to ¾" inox hose
06 - 0305		set for connecting safety group for SISS tanks
06 - 0308		band for the vessel
06 - 0402		expansion tank connection hose 0,5m
06 - 0405		expansion tank connection hose 1,5 m (for the vessel bigger than 35 l.)
06 - 0403		coupling for the vessel Ø ¾"
06 - 0404		coupling for the vessel 1"
06 - 0510		solar single coated hose on metres - DN 16 - (length to 60m)
06 - 0509		solar single coated hose on metres - DN 20 - (length to 60m)

code		
06 - 0511		brass nut to hose DN 16
06 - 0516		brass nut to hose DN 20
06 - 0512		half rings to hose DN 16 (2 pieces)
06 - 0517		half rings to hose DN 20 (2 pieces)
06 - 0513		solar seal 3/4"
06 - 0518		solar seal 1"
06 - 0514		steel deformation bolt 3/4" male
06 - 0519		steel deformation bolt 1" male
06 - 0521		angle coupling 3/4" male - 22mm
06 - 3030		aluminum profiles joiner
06 - 3101		strengthen sleeve for copper pipes Ø 15 mm
06 - 3102		strengthen sleeve for copper pipes Ø 18 mm
06 - 3103		strengthen sleeve for copper pipes Ø 22 mm
06 - 3040		coupling 1"male - 3/4" male under tanks gasket
06 - 3021		locking screw stainless steel 25 mm
06 - 2101		collector coupling covering (between collectors) - 15 mm
06 - 2102		collector coupling covering (between collectors) - 22 mm
06 - 3043		nipple 3/4"male - 3/4"male with wide forehead
06 - 1002		oring coupling 22-15
06 - 1003		oring coupling 22-18
06 - 1004		oring coupling 22-22
06 - 1005		oring coupling 22-28
06 - 1007		oring coupling 22-3/4" GZ
06 - 1008		elbow oring coupling 22-15
06 - 1009		elbow oring coupling 22-18
06 - 1010		elbow oring coupling 22-28
06 - 1011		elbow oring coupling 22-3/4"GZ

SOLAR SYSTEM ACCESSORIES /flat-plate and vacuum collectors/

code		
06 - 1030		three way coupling with pocket for temperature sensor
06 - 1031		oring plug Q22
06 - 1032		oring
06 - 1033		compensation coupling
06 - 1034		pin

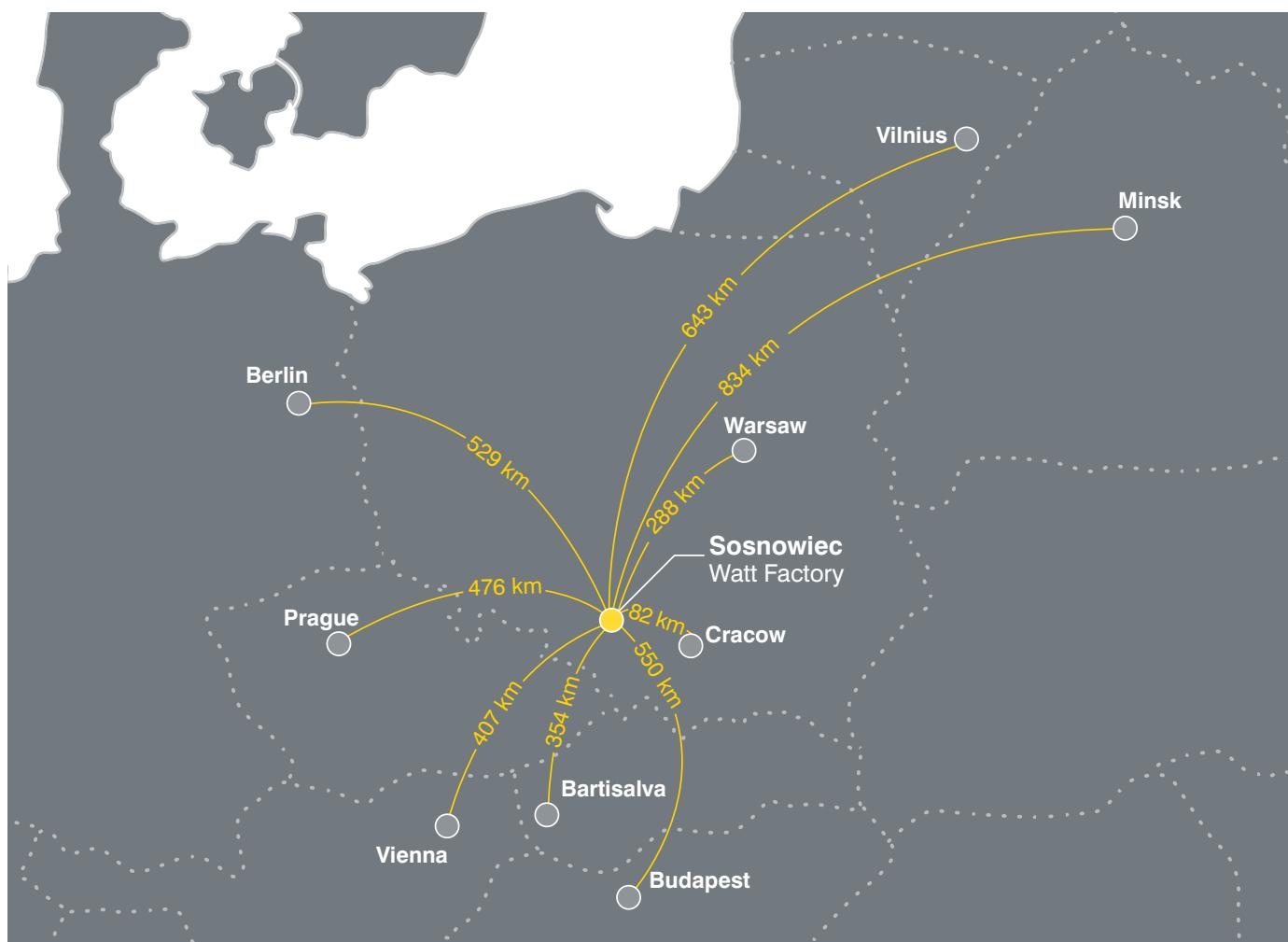


exhibition materials

model	code
exhibition solar collector WATT SW	13 - 1002
exhibition solar collector WATT SW L (painted)	13 - 1001
exhibition solar collector WATT SUW	13 - 2003
exhibition solar collector WATT SUW L (painted)	02 - 2013
exhibition solar collector WATT CPC 3 MINI	13 - 1013
free-standing aluminum construction - I MINI exhibition	13 - 1014

Small exhibition collectors of both flat-plate and vacuum types, painted. The collectors facilitate presentation of the model and principle of operation during fair or talks with customers.

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