

The expert for solar technology.



SolarWIN – Heat with a future.

SolarWIN – Solar flat plate collector

High-quality flat plate collectors
for installation on roof,
integrated in roof or
freestanding on an 'A' frame.

An investment that pays off.

Energy free from the sun.

We owe all life on Earth to the sun as an inexhaustible source of energy. It supplies us with an abundance of light and warmth everyday. Within just three hours the sun emits as much energy to the Earth as is consumed by the entire population of the planet in one year. Due to the latest technology we are in a position to harness some of this free energy and make use of it to lower our demands on other less sustainable fuel.

Simple and clever – heating with solar energy.

There are many good reasons for bringing the sun's energy into your home:



To benefit the environment.

Maintaining an environment for our future generations is a task we all take to heart. Installing a solar thermal system means that you are actively making a positive contribution to reducing CO₂ emissions that is desperately needed and will also help conserve other less sustainable fuel resources.



Increased security and independence.

You can rely on solar energy. It is available in unlimited quantities and gives an independence and security of continued supply unlike fossil fuels.

- ✓ Independent of fuel price and tax increases.
- ✓ Independent of energy imports.
- ✓ Independent of political issues.
- ✓ Independent of shortages of raw materials.



Save heating costs.

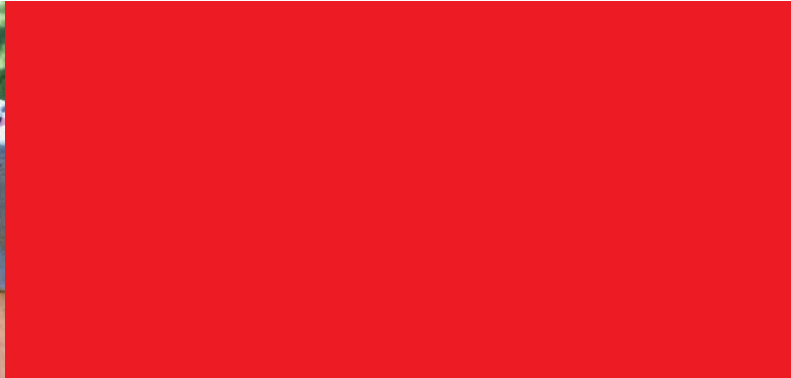
Rising oil and gas prices massively increase the running costs of your home. With a solar thermal system you can harness a proportion of the energy you require for heating and hot water demands from the sun and thus markedly reduce your heating costs:

- ✓ up to 60% of the costs for hot water, and
- ✓ up to 20% of the heating costs.



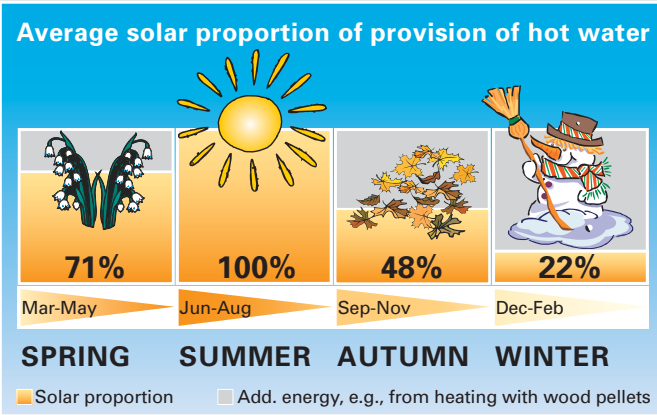
Financial support.

In addition there is grant funding available for installing a solar thermal system. Your local agent can advise on your best route to achieving these funds and help with your requirements so you are successful in your application.



Enough sun the whole year round.

During the summer months the solar thermal system will reach its optimum performance, harnessing enough energy to achieve 100% of your energy requirements to provide hot water. On average per annum your solar thermal system will harness 60% of the energy required for your hot water demand. Any short fall will be automatically achieved by your backup heating source. e.g. WINDHAGER wood pellet boiler, log boiler etc.



Source: Initiative solar heating Plus

How to harness the power of the sun.

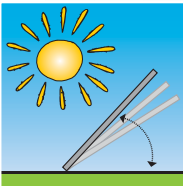
New build or retro fitting of solar thermal systems is possible to almost every home. A suitably installed hot water cylinder and solar thermal system can be linked into your existing system. System controls are then updated to maximise the benefits of the available energy. If you consider this at planning stage and ensure your house is installed ‘solar ready’ then is it very easy to retrofit the collectors and the rest of the system at a subsequent date.

Tips from the expert:



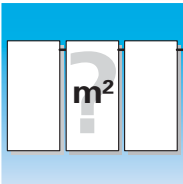
The alignment of the solar collectors.

The sun reaches its highest point in the south, so aligning the collectors to face south is optimal. In the case of roofs that are aligned east-west a split system can be installed on the east and west aspects to maximise system performance. Larger collector areas can be installed to compensate for partially shaded areas.



The angle of inclination.

A roof pitch of between 25° to 60° is ideal. The collectors can be installed on the roof (roof mounted) or integrated into the roof covering (in roof). For flat roof installations the solar collectors are mounted on an ‘A’ frame to provide the optimum angle and orientation towards the sun.



Sizing of collectors.

The collector area depends on many design criteria and it is also necessary to take into account the water consumption and number of occupants living in the property.

In safe hands.

Match the solution to the problem.

Do you want to upgrade an existing system with solar technology? Or perhaps incorporate additional heat sources later on? No problem! WINDHAGER ZENTRALHEIZUNG offers you individual complete solutions to meet all needs through customised solar thermal packages. From a simple standard system up to complex heating combinations with various heat sources.



AquaWIN
Solar indirect coil heating tank

SolarWIN hot water package

Sit back and relax, and enjoy solar produced hot water. The SolarWIN hotwater package ensures a maximum degree of comfort for you.

SolarWIN hot water package				
	Package	W03	W04	W05
	For persons	2–3	4–5	5–6
	Collector area gross – m²	4,5	6,75	9,0



AquaWIN
Solar indirect coil heating tank

CaloWIN
Accumulator tank

SolarWIN heating package

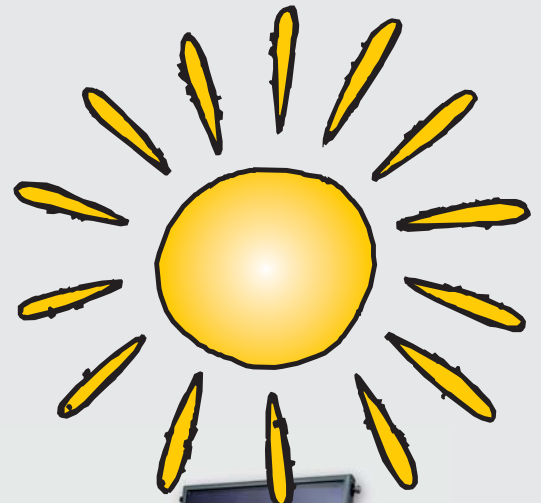
Space heating and solar hot water. Add the feel good factor of helping the environment and reducing your energy costs. With the SolarWIN heating package you can, in addition to your hot water, supplement your central heating system.

SolarWIN heating package					
	Package	P08	P10	K20	K15
	For persons	3–4	4–5	3–4	5–6
	Collector area gross – m²	13,5	15,75	15,75	18,0



Specialist for system solutions.

The key to using solar thermal systems efficiently is to combine all the components of the system effectively. Hot water storage cylinders, buffer tanks, boiler and controls all play an important role. **WINDHAGER ZENTRALHEIZUNG** can provide everything you need, for a one stop shop. This means that not only do you have to deal with just one company but also have the security of knowing that all the components have been designed to work together perfectly. With the potential to easily upgrade your heating system at a later date and future proofing your investment.



Additional heat generators
(e.g., a FireWIN stove using wood pellets) can be incorporated without any problems into the system solutions of WINDHAGER.



CaloWIN
Accumulator tank



SolarWIN
Solar flat plate collector



System distributor
Can be used variably for radiator, underfloor and hot water circuits. Can be extended as required due to modular design



AquaWIN
Solar twin coil indirect hot water storage cylinder

Guaranteed to work.

System technology is one of the many strengths of WINDHAGER ZENTRALHEIZUNG. All the heating components – from the solar collector to the controller – are checked on the basis of the strictest quality control and are perfectly matched to one another. This ensures the maximum absorption of energy possible from the start. Guaranteed!

SolarWIN – using the sun efficiently.

Solar technology that you will enjoy for a long time.

WINDHAGER ZENTRALHEIZUNG offer high quality, robust solar technology in the form of the SolarWIN solar collectors. The elegant flat plate collectors permit exceptionally good absorption of the available energy and also look good on any roof.

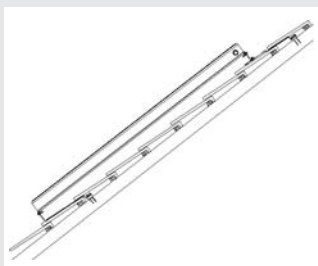


Its advantages:

- ✓ **Maximum absorption of the energy.**
Through the black surface and copper collector with highly selective coating.
- ✓ **Long working life.**
Due to hardened, hail-proof, 4 mm thick solar glass with high radiation permeability.
- ✓ **Flexible options for use.**
The SolarWIN is available for installation in roof, on roof or as an 'A' frame mounted unit.

Installation options for on the roof.

Fastening systems of aluminium and stainless steel, perfectly matched to the product and the various installation options:



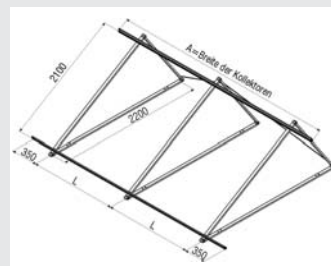
Tiled roof
attached with retaining brackets
directly on the roof tiles



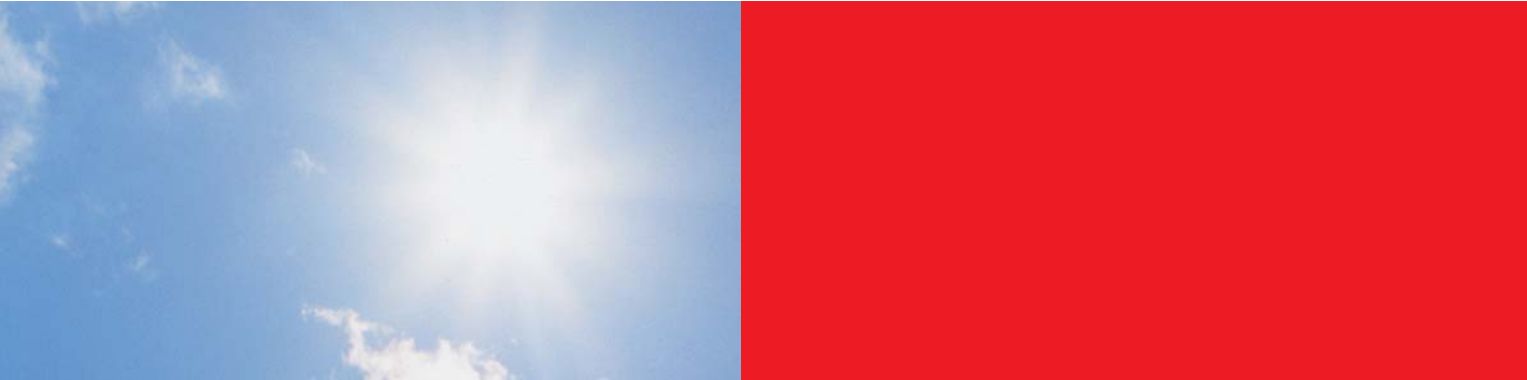
Sheet metal roof
with interlocking clamps



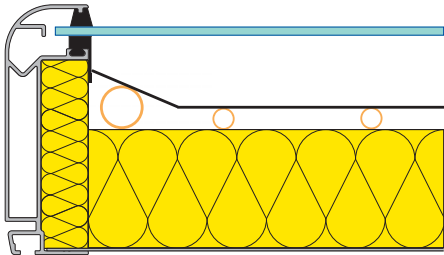
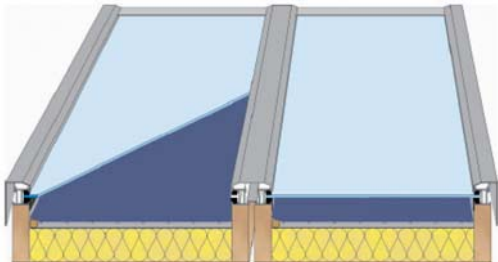
Set screws
with screws directly
into the rafters



Installation frame 45°
made of aluminium, suitable for
all versions



Design

	SWA – on the roof	SWI – in the roof
Cross-section		
Glass	Hardened, hail-proof and low reflection 4 mm solar glass with high radiation permeability due to a low iron content	
Absorber	Copper full area absorber with highly selective coating: Absorption 95%; emission 4%	
Frame	Double-walled, powder-coated aluminium profile sections with built-in glass holder, welded mitre joints.	Environmentally-friendly wooden frame.
Rear wall	Seawater-resistant aluminium sheet, 1 mm	Plywood panel with water-resistant glue
Insulation	Rock wool that does not emit vapours Rear wall: 50 mm; side: 20 mm	Rock wool that does not emit vapours Rear wall: 50 mm
Glass seal	3-lip EPDM rubber seal	4-lip EPDM rubber seal
Covering system		Covering system with aluminium clip profile section without visible screws ensures complete sealing and a perfect appearance. Easy access if required.

Technical data

SolarWIN flat collector		SWA 225	SWI 225
Installation type		On the roof	In the roof
Dimensions H x W x D	mm	2,100 x 1,070 x 105	2,100 x 1,050 x 125
Gross area	m ²	2.25	
Light inlet area	m ²	2.02	
Absorber area	m ²	2.01	
Weight without heat medium	kg	52	49.5
Filling volume	l	1.95	1.8
Max. operating pressure/test pressure	bar	10/15	
Setup angle	°	15 to 70	

www.windhager.com

Windhager provides more than first class products.

Quality consulting from our expert partners.

You can obtain WINDHAGER ZENTRALHEIZUNG products from our expert PARTNERS. Our partners are experienced heating specialists who work in close professional cooperation with WINDHAGER ZENTRALHEIZUNG to achieve the best results for our customers.

Professional customer service network.

Perfect customer service is one of the mainstays of WINDHAGER's success. Our professional customer service network guarantees the best customer care every day. Our customer service technicians are experienced professionals who work quickly and reliably.



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