

THE NEW GENERATION OF MODERN SOLAR TECHNOLOGY

The concept is
heating with solar energy



WORLD EXCLUSIVE

PIK® HIGH PERFORMANCE COMBI SOLAR COLLECTORS

ALL IN ONE

Poly Solar Solutions AG develops, produces and sells technologies for the intelligent use of energy, energy optimisation and independent generation of energy. We see the sensible use of solar energy as the key to the future. This will be available for many thousands of years, without creating a burden for future generations. **Now, the technology we've been waiting for is here!**

PIK® Combi Solar Collectors offer comprehensive energy-technical solutions for the perfect harmony between energy, buildings, the environment and people for energy optimisation and independent energy usage. PIK® products and services can be used separately or together as they can be combined or expanded as a modular system at any time depending on requirements.

PIK® Combi Solar Collectors supply unprecedented levels of energy, as we have been able to jointly harvest electrical and thermal energy from the same areas. The existing water film throughout the heat exchanger gives the following system advantages:

- Optimum heat transfer from the PV element to the heat exchanger directly beneath it.
- The PV element can be cooled to an optimal temperature for the production of electricity using the heat exchanger. In this way, the PV element constantly produces electricity at maximum power (controlled energy generation).
- Through controlled energy generation, we are able to harvest thermal energy 24 hours a day. Very high volume flow rates are possible.
- Very high level of efficiency
- Thanks to the water circulation in the heat exchanger, the PV elements remain snow and condensate free
- Produces all the warm water needed for heating
- Our system does not need any support from other energy sources.



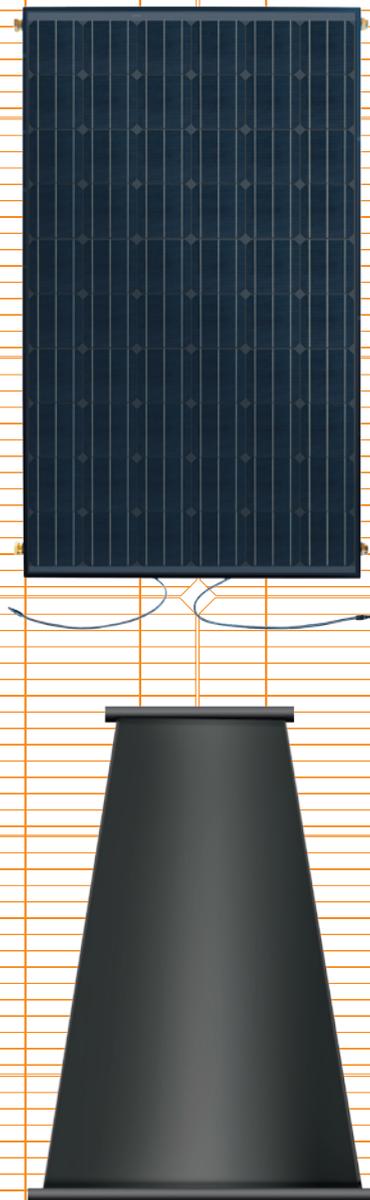
NEW, ENVIRONMENTALLY FRIENDLY - COMPLETE HEATING SOLUTION WITH SOLAR GLOBAL INNOVATION

PIK® Combi Solar Collectors produce electricity and hot water. We obtain all of the energy for hot water heating, hot industrial water and electricity for the heating pumps from the roof !

WHAT IS NEW AND DIFFERENT ?

- ☺ Extensive heat energy extraction through the patented heat exchanger
- ☺ Direct heat transfer
- ☺ High level of efficiency
- ☺ No overheating (direct cooling) of the PV elements through the system control
- ☺ Double area of heating energy per collector
- ☺ 24-hour energy harvesting for warm water
- ☺ The PIK® Combi Solar Collectors act as energy providers and pay for themselves
- ☺ No build-up of condensate
- ☺ No snow on the combi-collectors
- ☺ High volume flow rates
- ☺ No more energy expenses
- ☺ Use of high-quality materials
- ☺ Highly profitable for the use of hot water
- ☺ **Made in Switzerland**

- We provide you with a working concept, tailored to your needs with all the components, such as solar collectors, heating pumps, storage facilities, control systems etc.



PIK® Combi Solar Collector

Size

- Length: 1666 mm
- Width: 992 mm

Performance

- 245 electrical Wp
tolerance range (+3%/-0%)
- 300 - 600 thermal Wp
peak power ($T_{amb} = 30^{\circ}\text{C}$,
 $G = 1000 \text{ W/m}^2$) = 1038 W

PIK® Thermal Module

Size

- Length: 1560 mm
- Width: 475 mm

Performance

- 300 - 600 thermal WP
peak power ($T_{amb} = 30^{\circ}\text{C}$,
 $G = 1000 \text{ W/m}^2$) = 1038 W

Representative:



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