

***Is your electricity bill too high?
and yet, you can't find a better ways of reducing
the consumptions for the comfort of your family.....***



Solar energy could be the solution....a significant portion of your home's energy bill can be offset by installing a solar thermal system.
Solar energy, the most abundant of the green alternative energies, has the ability to replace all of your water heating and electricity needs.

In light of the consistent rise in the cost of petroleum based energy, there's never been a better time to have a look at solar home energy possibilities.

No matter how you want to use it, we have savvy, cost saving strategies for bringing solar alternative energy into **your** house.

The well-thought-out implementation of the different types of solar will produce a comfortable home whose utility costs can be completely eliminated or dramatically reduced.

Vaillant...your comfort is our priority

By incorporating the most modern technology, Vaillant's unique Total Solar System Solution intelligently blends solar and conventional energy supplies to optimise domestic heating and domestic warm water efficiency for our environment and our customers.

Solar system auroSTEP plus

Modern technology for your independency

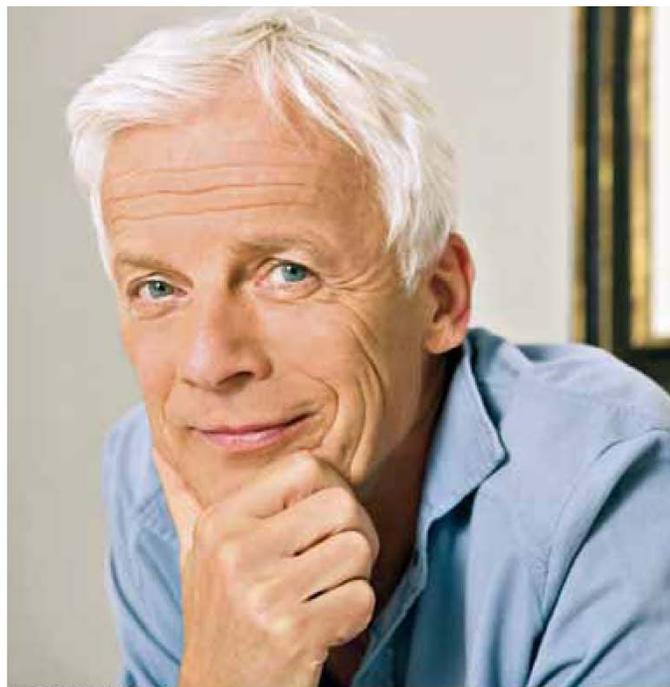


Solar system auroSTEP pro

proven concept in compact design

Solar system auroSTEP plus

Modern technology for your independency



Drainback system auroSTEP plus

The solar system auroSTEP plus offers the opportunity to use new solar thermal technology for the generation of warm water in your home without facing some regular disadvantages of solar systems. Herewith Vaillant presents a system that is easy to implement and offers calculable costs.

The solar system package auroSTEP plus contains a solar storage with a pre-mounted solar pump, an integrated solar control, a corresponding auroTHERM flat plate collector (or collectors – depending on the system) and the compatible installation accessories for the particular type of roof.

This is a well adjusted system for standard installations which does not require detailed planning. The auroSTEP plus storage is available with 150, 250 and 350 litres volume.

Drainback technology

When the auroSTEP plus system is switched off the solar liquid “drains back” to the bottom of the pipes– in the storage and in the upper pipes is remains nothing but air. The system is pre-mounted and pre-filled which makes the planning and its installation less complicated and thus less susceptible to errors. The system “plug’n flow” lets you enjoy your warm water heated by solar energy after a very short time.

auroSTEP plus at a glance:

- Well-adjusted pre-assembled and pre-filled drainback system for the generation of solar domestic hot water
- For one / two-family houses
- Tank volumes 150, 250 and 350 litres
- For loading charges of up to 12m
- High efficiency pump for energy savings
- Small planning effort
- Small installation and maintenance effort
- Protected from stagnation and frost damages
- Ideal solution especially for areas with high solar radiation

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Thermosyphon system auroSTEP pro

Vaillant's auroSTEP pro system contains a storage which is installed on the roof directly above the collector/s. Well crafted collectors, enamelled "tank-in-tank" storages and a coated mounting bracket give the system the known Vaillant quality.

The storages are available in the capacities of 150, 200 and 300 litres of domestic hot water.

When the solar earnings are not sufficient to cover the warm water demand, electrical backups of 2 or 3 kW can be added to the system. You get further warm water comfort without big installation efforts.

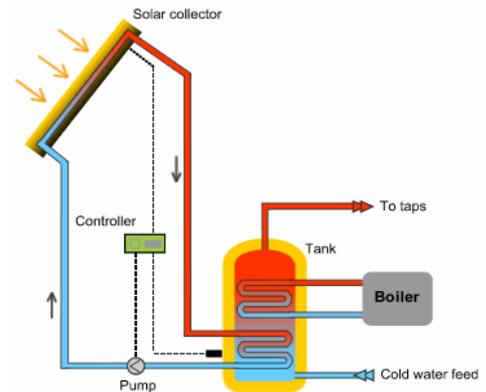
auroSTEP pro at a glance:

- For supply of domestic hot water in one-family houses
- Tank volumes 150, 200 and 300 litres
- No additional energy costs for the pump function
- Reduced maintenance costs
- Corrosion protection
- Electrical back-up can be added to the system

Indirect Forced System



Forced System Schematic Drawing



Feature of the forced system:

- Suitable for large-scale projects like hotels, hospitals, residential and commercial complex.



Construction of flat plate collector auroTHERM plus VFK 150V

Solar thermal collector auroTHERM VFK

Elegant efficiency made in Germany

auroTHERM VFK at a glance:

- Solar warm water generation, heating of swimming pools and/or support of central heating
- Compatible for on-roof installation, homogenous in-roof installation and for remote mounting on a flat roof or other area
- VFK 145 and VFK 150 available as versions for horizontal and vertical installation
- For solar earnings even on cloudy days or days with low irradiation
- Laser-welded serpentine absorber out of aluminium and copper assures an excellent warmth transmission
- Highly efficient insulation of rear panel

Solar thermal collector auroTHERM exclusive VTK

Best use of solar energy

auroTHERM exclusive VTK at a glance:

- Vacuum tube collectors with 6 or 12 tubes
- For application in systems for solar domestic hot water generation but also for solar-supported heating systems
- Fast and safe installation on tilt or flat roofs, beside each other or one above another
- Low weight and compact dimensions
- Easy-to-replace tubes
- For small but also for huge buildings



Vakuum auroTHERM exclusive VTK 1140: 12 vacuum tubes

new range of mounting accessories



Mounting bracket for on-roof installation

The fastest installation without any compromise to security: our new mounting brackets for on-roof installation. Delivered pre-assembled they are ready to fix the collectors in shortest time. No further tools than an usual Allen key is needed.



A-frame with gravel plates for flat roof installation

The pre-screwed A-frames just have to be swung open and fastened with two pins and sticks - all needed items are delivered as part of our installation package. United to the gravel plates a secure mounting of the collectors against all wind forces and other perturbances is built soonest. No other tools have to be available for the reliable fixing of your collectors. The flat-roof system is proven for regions with strong wind- and/or snow loads, too.



Hydraulic connection for collectors

Not more than some stainless steel connections are needed for the hydraulic connection between two collectors. With small efforts and in shortest time collectors can be linked to each other for a quick and proper installation of your solar thermal system, beside or one above the other.

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