



Solar Domestic Water Heating – AventaSolar

Aventa's system for solar heating of domestic hot water (DHW) is suited for new-built houses and for retrofit projects. The AventaSolar system consists of a special designed domestic hot water boiler, pipe system and solar controller which secure optimal operation and solar energy gain from solar heating system.

The AventaSolar collectors are designed for building integration and can be installed on a tilted roof or facade. The solar collector area is dimensioned on the basis of the available area on the building and the DHW demand, however it is also important to place the solar collectors so that a satisfying solutions from an architectural point of-view is obtained. The domestic hot water store has a standard volume of 331 litres - 270 litres domestic water and 61 litre drain-back volume with system water. The solar energy gain can typically cover 50-60% of the DHW demand and a built-in electric heating element provides back-up heating for DHW preparation.



Easy installation

The Aventa system is easy to install. The solar collectors are low-weight and part of a drain-back system. The solar collector loop contains water and is not pressurised. Hence the installation of the collectors can be performed by roof/facade installers.

The set-up and connection of the domestic hot water store to fresh water and electric power supply is comparable to conventional heat stores and has to be done by authorised installers.

System components

- **AventaSolar collector** - Polymer solar collector concept, light-weight, available in various collector lengths for easy building integration in roof and facades. Environmental friendly, using pure water and no chemical additives as heat carrier. Collector cover with UV protection. Solar Keymark certified.
- **AventaSolar 330** - Solar domestic hot water store of stainless steel with integrated drain-back tank and spiral heat exchanger for solar loop, all in one unit and prefabricated in factory.
- **Aventa uc:symphony** - complete solar controller for operation of the solar collector system. uc:symphony consists of the main controller (uc:) installed in the boiler room and the remote controller (rc:) with operating panel and graphical display for optional installation in the living area. Nemko certified.
- **Piping - PEX** - piping system for connecting AventaSolar collectors with AventaSolar 330 heat store (solar loop). Extra safety though pipe-in-pipe system. Tailor-made connectors to solar collector forward-/ return connections.

Contact

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