

# Fresh warm air and water with: *SolarVenti SV30 Hybrid*

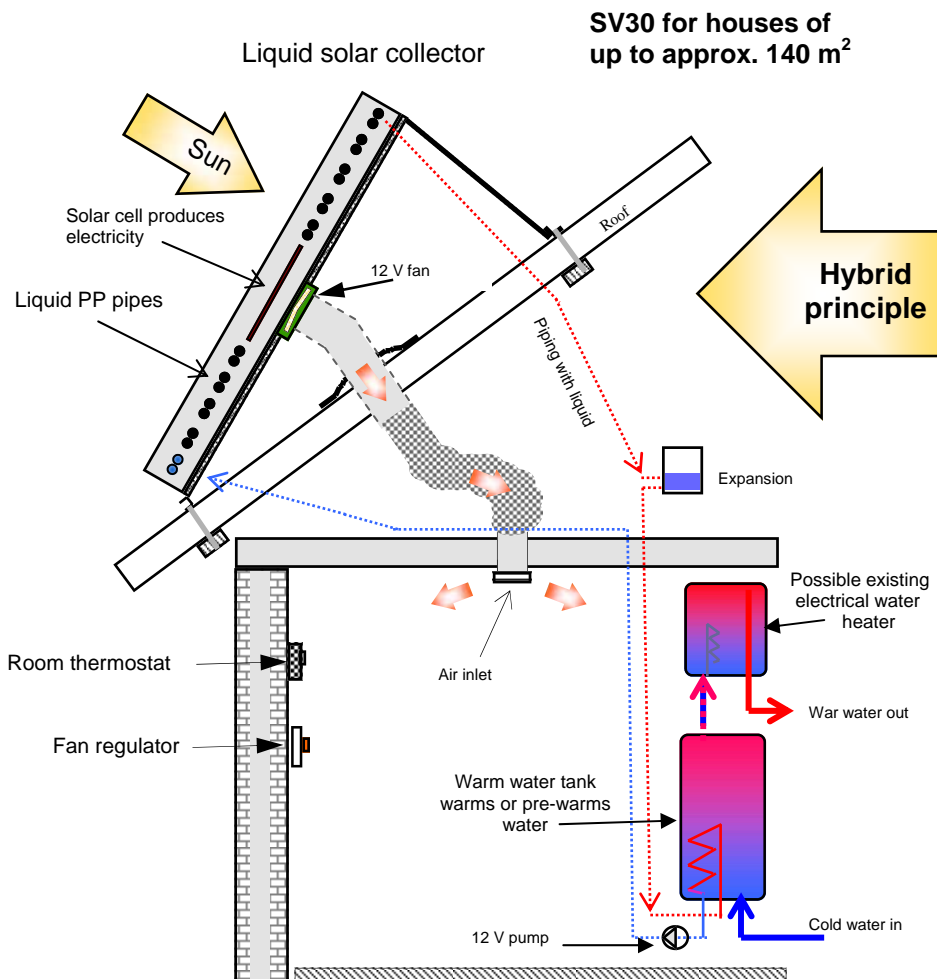
## For larger leisure homes, cottages, houses etc.

A **SolarVenti** which also supplies you with warm water for a big part of the year - for free. A special **SolarVenti** hybrid version does a perfect job of keeping the house fresh and dry all the year round and supplying you with large quantities of warm water for the kitchen and the bathroom in the summertime.

An SV30 Hybrid warms approximately 120 m<sup>3</sup> air per hour at 20 - 30 Degrees C above the outdoor temperature, according to the position of the sun – similar to the standard SolarVenti. As well as the fresh warm air an SV30 Hybrid also delivers approximately 100-200 litres of warm water on days when the sun shines. The air exchange is vital to rid the house of the stale and smelly air.

In pool houses SolarVenti will help to minimise the smell of chlorine and will also save on electricity for dehumidification.

During most of the summer you do not need to warm the air, which allows SolarVenti to work constantly on warming the water. In this way, the effect of the solar collector is optimized throughout the year.



SolarVenti is a Danish invention, which is patented in relevant countries. Danish patent no. PR 174935 . European patent no 1448937

From the side this is how a system may look. The solar collector is angled at 60 Degrees.

The air supply is connected exactly like an ordinary SolarVenti, while the water heating component has its own circuit which may be connected later.

The system runs at 12 volt, so you can make all connections yourself at no risk. When the fan is switched off, natural cooling of the collector starts, which is designed to prevent overheating. Any risk of boiling is heavily reduced, as only the upper part of the liquid circuit may get near to 100<sup>o</sup> C when both pump and fan are stopped.

### How is the system controlled?

The system is primarily controlled by the sun. The more the sun shines, the more warm air and warm water.

The fan and the heating fluid pump are both driven by the built-in solar cells. A room thermostat must be installed in the major room of the house.

Set the thermostat at 23<sup>o</sup> C. When the temperature in the house exceeds 23<sup>o</sup> C, the fan will stop, while the pump continues at heightened speed, as there is now more power and heat to get from the solar cells.

The fan speed can also be adjusted by the regulator. Reducing the amount of incoming air means higher temperature.

If the house is left unoccupied for some time, the regulator should be set at the highest fan speed. You will get the highest performance from the SV30 Hybrid when both air and liquid circuits are running.

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## Technical data:

Produced by:	SolarVenti A/S Denmark
Measurements:	300 x 102 x 10 cm
Weight:	32 kg
Frame:	Solid aluminium profile
Front plate:	Shockproof polycarbonate
Absorber (air)	2 mm felt
Absorber (liquid)	16 mm PP pipes
Colours:	Aluminium, black, white
Regulator:	12V Danotech
Thermostat:	Room thermostat, Schlüter
Fan:	12 V - 6,8 W. Sunon 125 mm
Pump:	12 V Laing, 1 - 2,5 l/min
Expansion:	10 l open expansion
Piping:	16 mm PP pipes with insulation
Hot water cylinder:	100 l Atlantic with maintenance-free anode
Solar cell:	Producer: SolarCells Croatia
Output:	24 Watt (can be increased)

The SV30 Hybrid is supplied with both a regulator and a room thermostat. The solar cells are installed through the short frame side of the solar collector. The fan component can be dismantled from the outside.

Rights to make alterations reserved.

## SV30 Hybrid special advantages:

- 1) Can produce both warm water and warm dry air as required.
- 2) Completely independent of any mains electricity supply.
- 3) Self cooling counteracts boiling when the pump is stopped.
- 4) Relatively simple do-it-yourself installation.
- 5) Low cost system, as solar system control is not needed.



SV30 Hybrid weighs only 32 kg and can easily be carried onto the roof. You can also install it on a wall with full sunshine, like a big window.

Producer:

**SolarVenti A/S**  
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 www.solarventi.dk aidt@aidt.dk

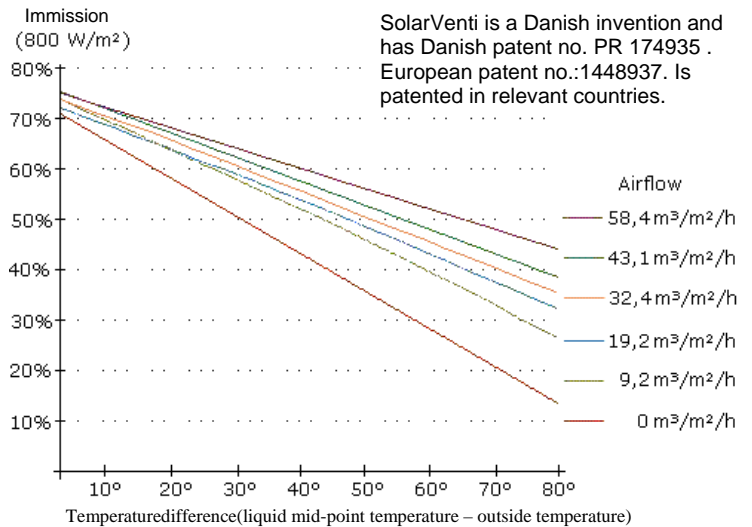
**SolarVenti®**



12 V pump

100 l hot water cylinder with heat exchanger and electronic anode.

The SV30 Hybrid contains an extra water heating component constructed of PP material. Shown here without front plate.



## High performance:

A 3 m<sup>2</sup> hybrid air solar collector which was sold for many years by SolarVenti A/S (then Aidt Miljø A/S) was analysed by Denmark's Technical University, and a report on these figures exists. This solar collector displayed a very high performance, when both the liquid and air circuits were running.

Dealer: