

Solar air collectors with high reliable performance

SolarVenti Ltd. has 27 years of experience in the development, production and professional servicing of solar air collectors

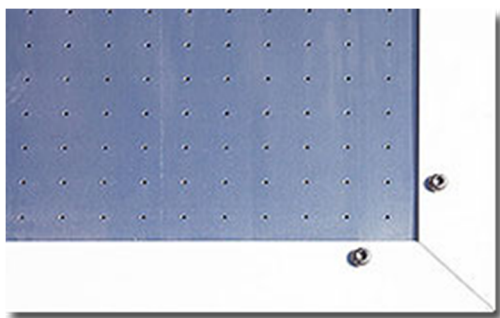
Today, we are market leaders, with almost 60,000 SolarVenti systems operating with satisfied customers in large parts of the world. SolarVenti's solar air collectors are all using our own patent. This gives SolarVenti models numerous advantages in terms of performance, reliability and maintenance...



About the patent and construction

SolarVenti's patented technology is – simply explained – a particular intake of fresh air to the panel through many hundreds of small holes on the backside of the panel. The intake is important for the construction overall.

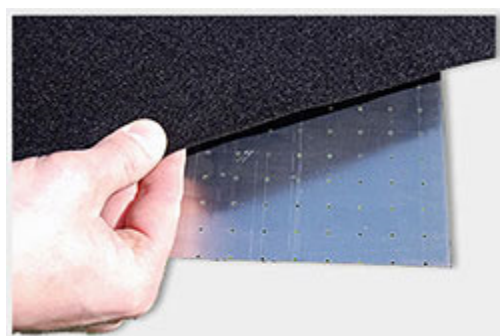
The particular intake is, among other things, important for the high efficiency and the operational security of the systems.



The very large filter, which is stretched out across the whole inside of the particular intake back panel of the SolarVenti means that the systems are always kept clean and maintenance-free, also in the long term. The felt stops particles larger than 0.08 mm (80 Micron). When the fan is off – in sunshine, the temperature in the felt exceeds 75 degrees C. Germs and other particles are dried out and expelled.

Maintenance-free filter

The filter in a SolarVenti is huge and takes up the whole surface of the back panel. It is maintenance-free and will under normal circumstances never get blocked. This is what increases air quality.



This means that the user will avoid problems of non-cooling of the solar cell and ventilator inside the panel, caused by a blocked filter, which then causes a weakened flow and performance of the panel.

Maximal use of heat from wall to roof

Since the SolarVenti 'breathes' into the filter through the many hundreds of holes distributed across the aluminum back plate of the panel, the intake has no 'vacuum effect'. The air is drawn in passively through a large surface towards the small holes, therefore only draws minimal dust into the rear of the filter mat. This dust being organic and will dissipate with heat. The air stream drawn towards the many intake holes in the panel further means that heat from surrounding wall and roof surfaces are drawn in to a large extent and are used inside the solar air heater.

Durability, Distributors and Service

SolarVenti has experience with almost 60,000 systems in the field. We have units in extreme snow and cold countries as far north as Greenland and Lapland. We also have units in Southern Europe and Australia – New Zealand with the toughest solar conditions.

Our solar air collector systems hold up. And we know that they hold up for a long time. Most systems produced and mounted back in 1986 are still running without problems, maintaining ventilation, heating and a high indoor air quality.

Our well-extended net of distributors ensures that SolarVenti owners always have access to qualified help, installation advice and service.

Measurements and performance numbers

Measurements and performance numbers for solar air collectors can be used and abused to manipulate the reader. See more under: [Facts and Hot Air](#)

SolarVenti performance has also been independently measured by the **DELTA Centre of Test Excellence**, one of four sub centers under **DANETV** (Danish Centre for Verification of Climate and Environmental Technologies).