

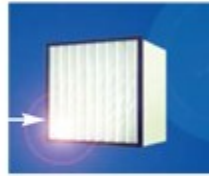
Welcome to SolaMate.



Air is drawn through the SolaMate panels and is converted to heat.



Warm air then passes through the fan unit and medical grade deep pleat filter.

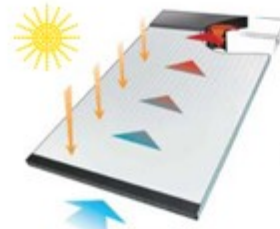


The filter is an F6 deep pleat filter effective at removing pollen, allergens and harmful dust down to 0.4 of a micron.



Via ducting, the warm purified air is gently circulated throughout the rooms of your home. A blessing for asthma, allergy and hayfever sufferers... SolaMate harmonises the temperatures in your home as well as purifying the air circulating through and refreshing your home.

The SolaMate smart digital controller, by HoneyWell, is easy to use and allows homeowners to simply 'set and forget'. Software algorithms are specifically designed to optimise the amount of energy harvested from your panels.



Daytime Heating

Cool fresh air enters the panel. The panel absorbs sunlight and converts it to heat. Warm fresh air enters your home via a fan, filter and ducting.

SolaMate simply delivers

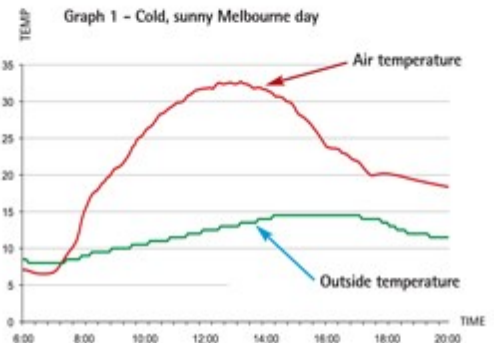
- Low emission winter air heating
- Low emission air cooling on summer nights
- Improved indoor air quality with filtered fresh air
- Creates savings by reducing the load on the existing heating and cooling systems in your home



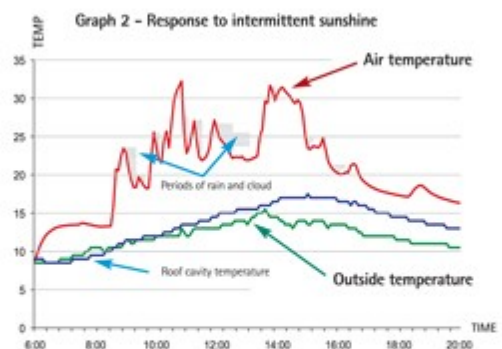
Summer Night Cooling

Cool fresh night air enters the panel. At night there is no ultra violet or infra red light to activate heating. Cool air is filtered and circulated through your home.

In Graph 1 the peak SolaMate power output was 3.3 kW and a total of 22 kWh was delivered to the home over the day. This is equivalent to running a large electric heater on full power for 9 hours. When heating, the amount of solar energy harvested by the SolaMate panels is independent of ambient temperature conditions, so even on very cold days the SolaMate panel can deliver large quantities of heat to your home.



On cloudy days Ultra Violet and near Infra Red light penetrate the clouds to heat the SolaMate panel. Even on rainy days there are often periods of intermittent sunshine. SolaMate responds instantly to this sunshine to harvest all the available solar energy as shown in Graph 2.



Air temperature from the SolaMate panel is typically:

- 30°C - 45°C on sunny spring and autumn days.
- 25°C - 30°C for sunny winter days.
- 20°C - 25°C for cold, cloudy winter days.



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FAQ's

How many panels will you need?

A single SolaMate panel kit will typically heat, cool, ventilate an area of 100 square meters of living space (assuming a standard 2.7m ceiling height). For an area of this size, the SolaMate fan will provide 2 complete fresh air changes per hour.

Is SolaMate expensive to run?

The SolaMate fan is incredibly efficient using just 80 Watts of power to provide a massive 540 cubic meters/hr of air flow. That means over a full 8hr day, the SolaMate fan consumes just 0.64 KWhrs of power and costs less than 10 cents to run (assuming 15c per KWhr for grid power). SolaMate panels come in two different shapes to suit most roof sizes. Both have the exact same solar collection area and provide the exact same performance results.

Each SolaMate panel produces almost 2000 Watts of heat under solar radiation conditions of 1000 Watts/M2, and can provide a massive 11 KWhrs of free heating over the course of a day.

Can you do it yourself?

Yes you can. Full installation instructions are supplied with each kit. Each SolaMate panel kit comes with its own dedicated fan, filter, and 3 duct outlets; therefore, a twin-panel kit comes standard with 6 outlets. The fan can be located up to 6m away from the SolaMate panel and each of the 3 duct outlets can be up to a further 6m away from the fan.

How effective are the filters?

Particles in the air carry pollutants, some of which can cause lung damage and allergic reactions when inhaled. Breathable particles are referred to as PM-10 (particle matter smaller than 10 micro meters). The SolaMate Filter is an F6 medical grade filter that removes particles as tiny as 0.4 micro meters which includes pollen, spores, bacteria, and most other lung-damaging particulates. The filters are user replaceable and usually last between 12-18 months.



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