

## SolaMate Kit Components

SolaMate is now available in a simple, easy to install kit meaning there is no need for trained installation specialists. This now means significant cost savings for anyone capable and qualified to do their own installation, or wishing to engage local tradespeople to do the installation on their behalf following our very simple instructions.

The SolaMate kit comprises of three basic groups of components:

### 1. SolaMate panel and mounting kit (On your Roof)



### 2. Air handling kit (In your Roof)



### 3. System control kit (In your Room)



## Solamate Kit Installation

- The panel is very slim (40mm) and light weight making it very quick and easy to mount on the roof. It also looks really neat once mounted.
- Mounting the panel to the roof takes less than an hour for a typical single panel installation.



- Most of the air handling components can be easily pre-connected at ground level before transferring them into the roof cavity.
- Once the fan and filter have been mounted in the roof cavity it is simply a case of connecting the insulated flexible ducting from the panel to the fan, and from the fan to the outlets in each room. Simply trim off the excess duct and fit the sleek cone centre ceiling diffusers to complete the job.
- Connecting all components and running the flexible ducting takes about 2 hrs for a typical single panel installation.

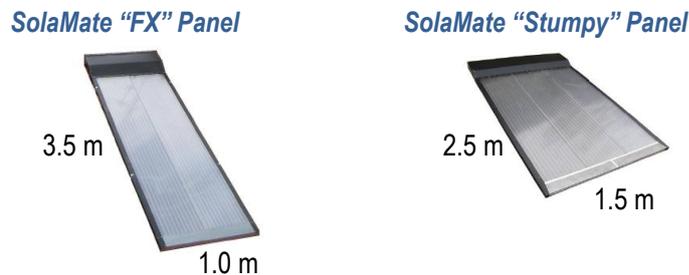


- The last step is to connect the system control kit components.
- The SolaMate thermostat controller is pre-programmed and simply needs to be mounted to the wall and plugged into Fan Control Box in the ceiling.
- The Fan Control Box is "plug-and play" and requires no mains electrical wiring. If you already have a mains power outlet in the ceiling, you simply plug it in and turn it on. The fan connects to the control box using a standard 3-pin plug.



## SolaMate Basic Facts & Figures

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 average solar radiation conditions of 1000 Watts/M<sup>2</sup>, and can provide a massive 11 KWhrs of free heating over the course of a day.

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).

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**.

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.

As many as **3 SolaMate systems** can be run from the same system control unit meaning the system is modular and additional SolaMate panels can simply be plugged in at a later date without the need for wiring.

The SolaMate system can **eliminate** the need for supplementary heating in spring and autumn and reduce the additional heating requirements in winter by 50% or more.

On cloudy days **Ultra Violet** and **near Infra Red** light penetrate the clouds to heat the SolaMate panel. The 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.

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.

SolaMate is a fully Australian designed, owned, and manufactured product and was the **2009 Housing Industry of Australia (HIA) GreenSmart Product of the Year**, as well as an Episode and People's Choice Award winner on the ABC's New Inventor's Program.