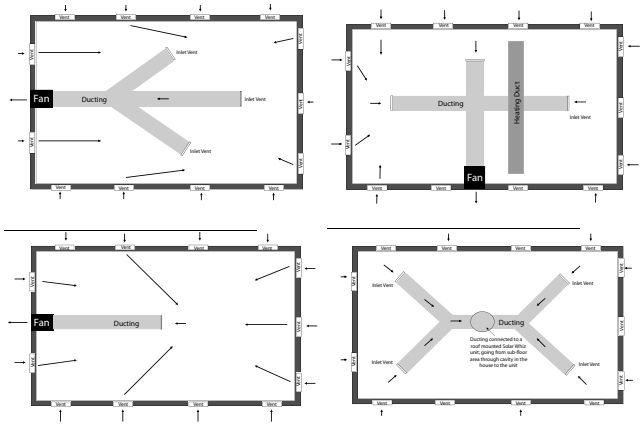
Installation

Our range of solar powered subfloor fans and systems are flexible and suitable for a range of applications and ideal for DIY activities with all wiring and fitting instructions available.

Alternatively you may contact your local dealer to organise a quote, inspection or installation.

Below are a few examples of how our solar fans may be installed to accommodate standard scenarios requiring sub floor ventilation.

Subfloor Ventilation System Ducting Options



Benefits of our systems

- Unlike powered, timer operated systems our systems run when the sun is out and therefore generally deliver fresh and dry air optimising the effect of your subfloor ventilation.

- The solar powered operation ensures optimum timing, fan speed as well as quiet operation without power consumption.

- Besides protecting the structural integrity of your house; effective sub floor ventilation will normally also result in improved air quality inside the house and reduced the risk of asthma symptoms and respiratory problems assisting in preserving your health as well as that of your house.

Mould on ceiling as a result of poor ventilation.

Call us: 1300 AIR DRY (247 379)

Email us: mail@solair.com.au

Solair

Visit our showroom at:

Unit 1/2-4 Bonnal Rd Erina NSW 2250

Or contact your local dealer:

SOLAIR .com.au

Warranty

Our subfloor fans are designed and developed for Australian conditions based on many years experience with various other solar ventilation systems.
We offer a 10 year warranty on PV panels and a 2 year warranty on all other components. Extended warranty is available upon request. An extended warranty is also available on request.

Delivery available Australia wide

Disclaimer: Solair does not accept any responsibility for events that result from the use of this product or the information provided in this brochure.

SolarWhiz
Sustainable Ventilation

Solar Subfloor Ventilation

Is moisture in your subfloor causing dampness and condensation throughout the house?

Is it causing mould, mustiness or rotting floor boards?

Make these problems a thing of the past!
Our Solar powered Subfloor Ventilation system is the solution!

www.solair.com.au

Importance of subfloor ventilation

Effective ventilation of the subfloor area is essential to the health and longevity of any building with a subfloor area.

Constant high moisture levels may cause irreversible damage to the structure of the house, as well as high humidity and poor indoor air quality.

Condensation on windows is normally a strong indicator of high humidity levels in your home – and will often enable mould to develop.

This is not only unsightly but also poses many health risks such as asthma, irritations and allergies.

Damage caused by poor ventilation in subfloor areas

High humidity levels under houses result in a damp sub/underfloor. This causes mould and other fungi to thrive, and may result in rotting floor boards and stumps as well as trigger odours and musty smells throughout the house.

Major damage is also likely in the subfloor areas due to the moist conditions creating ideal breeding grounds for termites, white ants and wood borers.
Moisture in the subfloor can make its way into the house causing serious damage to both internal walls as well as any painted surfaces (rising damp).

Importance of subfloor ventilation

The ideal situation for a subfloor area is to have effective cross flow ventilation under the house.

Some of the main reasons for lack of ventilation include:

- Heating ducts blocking air flow
- Few or no vents
- Small or blocked vents
- Having vents only on one side of the subfloor area

Fan assisted ventilation can aid in these situations. For optimum results locating fans and inlets to achieve cross-ventilation is of utmost importance. It is most effective to run fans during the day as the replacement for the air removed air is dryer and warmer. Running sub floor ventilation systems during wet weather will normally increase the moisture levels.

If you wish to run your fan/s on a timer or at night, we offer 12 volt power supplies and day/night packs which can be powered via a regular 240V power point.

Prevention of subfloor issues

Over the past several years, we have successfully solved severe damp problems for many of our customers using a unique approach that involves the creation of a ventilation "system" by combining a number of our products eg Solar Whiz & SolarVenti.

Solar Whiz

The Solar Whiz gable fan is due to its unique design extremely effective for extracting air from the subfloor and may, depending on the situation, be used with or without ducting for addressing damp issues. and bringing fresh replacement air in to the affected subfloor area.

SolarVenti

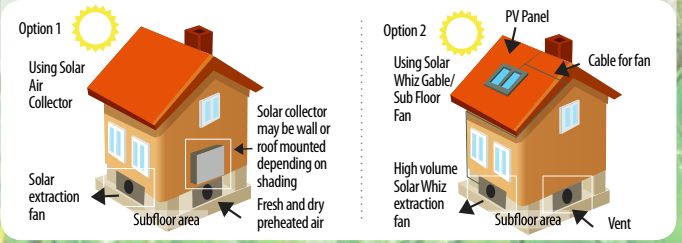
A SolarVenti may be installed to address particularly difficult/wet areas to supply warm dry air into problem areas, which will increase the evaporation rate and increase the drying effect. A second fan will then be installed on the opposite side of the house to ensure the moisture is removed.

Inline Fans

When there is less than 500 mm clearance for mounting the fans, we offer a range of medium and high volume solar powered fans available in 8, 16 (150mm) or 25 Watts (330mm); offering a space effective option for subfloor ventilation.

Roof Mounted Solar Whiz

When there is no access to the subfloor area, a simple but effective way to ventilate the subfloor area is to mount a Solar Whiz on the roof (or the gable) - and draw moist air from the subfloor out via a duct.



Specifications

Model	SW1400G	SW2100G	SW3000G	Inline Fan	Sub Floor Fan	Sub Floor Fan	Sub Floor Fan	Inline Fan	Inline Fan	Inline Fan
Max. Airflow Capacity at 0 press.	1400 m3/h (w/o cover)	2100 m3/h (w/o cover)	3000 m3/h (w/o cover)	1200m3/h (w/o cover)	1900m3/h w/louvre vent	490m3/h w/louvre vent	350m3/h w/louvre vent	490m3/h (w/o cover)	350m3/h (w/o cover)
PV Panel Polycrystalline High Impact Resistant	10Watt. Adjustable Tilt frame	20Watt. Adjustable Tilt frame	25Watt. Adjustable Tilt frame	25Watt. Sold and supplied separately	25Watt. Sold and supplied separately	16Watt. Sold and supplied separately	8Watt. Sold and supplied separately	16Watt. Sold and supplied separately	8Watt. Sold and supplied separately
Fan Motor	6-14 volt DC brushless motor with double shielded ball bearings					6-18 volt DC brushless digital design motor with double shielded ball bearings			
Speed (12 volt)	900rpm	1150rpm	1300rpm	1300rpm	1300rpm	2350rpm	1680rpm	2350rpm	1680rpm
Fan Blade	Balanced 4-wing design, ABS polymeric reinforced fan blade with UV protection. Designed for high airflow and low noise- 300mm diameter.					Balanced3-winged design. Light aluminium providing low mechanical resistance and maximising airflow.			
Body	Aircraft grade aluminium			Hot galvanised steel		Cold sheet steel rackets, stainless steel fasteners			
Paint	Black electrostatic UV resistant spray cured in high temperature drying process.Anti UV Power Coating								
Materials	Cold sheet steel rackets, stainless steel fasteners			Hot galvanised steel		Cold sheet steel rackets, stainless steel fasteners			
Dimensions (mm)	ø: 500 Depth: 185	ø: 500 Depth: 185	ø: 500 Depth: 185	ø330 Depth: 335 ø Flange: 300	ø: 350x350 Depth: 215 ø Flange: 330	ø: 237x247 Depth: 165 ø Flange: 150	ø: 237x247 Depth: 165 ø Flange: 150	ø: 500 Depth: 180 ø Flange: 150	ø: 500 Depth: 180 ø Flange: 150
Packing Size (mm) & Weight	530X530X270 7KG	630x630x230 8KG	650x650x230 9KG	340x340x360 4KG	430x430x250 5KG	330x330x250 2.5KG	330x330x250 2.5KG	200x190x190 1KG	200x190x190 1KG
Noise Level	<40dBA	<45dBA	<45dBA	<45dBA	<45dBA	<56dBA	<43dBA	<56dBA	<43dBA
Colour	Black Powder Coating								
Solar Air Collectors	For more information and technical specifications on our Solar Venti Units for heating or sub-floor ventilation, please refer to our SolarVenti brochure or www.solarventinsw.com.au or call 1300 247 379								

* Solair reserves the right to alter any of the information in this document without notification.