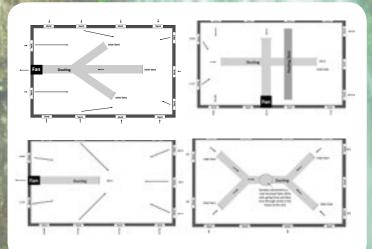
# **%** Installation

GES's range of solar powered subfloor fans 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 GES's 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 fans our solar powered fan 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 reduce the risk of developing asthma symptoms and respiratory problems. Effective sub floor ventilation therefore help you look after the health of your family as well as that of your house.



Mould on ceiling as a result of poor ventilation.

Call us: 1300 655 118

www.solarventilation.com.au



#### **Global Eco & Environmental Solutions**

Visit our showroom at:

1135 Toorak Rd, Camberwell, VIC 3124

Or contact your local dealer:

## **Warranty**

GES's subfloor fans are designed and developed 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.

# S Delivery available Australia wide

Disclaimer: Global Eco & Environmental Solutions does not accept any responsibility for events that result from the use of this product or the information provided in this brochure.



Is your subfloor damp?
Does your house smell musty?
Is there condensation throughout
the house?
Do you have problems with
mould, mustiness or
rotting floor boards?

Make these problems a thing of the pastle Our Solar powered Subfloor Ventilation system may be the solution you are looking for!

www.solarventilation.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 as well as its occupants. Permanent high moisture levels may cause irreversible damage to the structure of the house. A damp subfloor will normally also be reflected by high humidity levels inside the house resulting in poor indoor air quality.

Look out for symptoms inside the house such as condensation on windows, mustiness, mould and mildew, which normally are strong indicators of high humidity levels in your home – and often caused by damp subfloors.

These symptoms are not only unsightly but also pose respiratory health risks such as asthma and allergies and may also cause skin irritations.

# Damage caused by poor ventilation in subfloor areas

Damp subfloors are the result of high humidity levels under houses. Mould and other fungi thrive in damp environemnts, and may result in rotting stumps and floor boards as well as cause odours and musty smells throughout the house.

Dampness creates ideal breeding grounds for termites, white ants and wood borers. Which is likely to cause major damage in the subfloor areas. A damp subfloor may also cause rising damp resulting in serious damage to painted surfaces and internal walls.

### Subfloor ventilation - How & Why

Ideally every house with a subfloor area would 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 and ducting may eliviate these situations, however, it is important to address fundamental issues. 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 will be warmer and drier. Operating sub floor

ventilation systems during wet weather will normally increase the moisture levels - not reduce them!

Should you wish to opearte your fan/s on a timer or at night, GES offers 12 volt power supplies and day/night packs which can be powered via a regular 240V power point.

#### Prevention of subfloor issues

Global Eco & Environmental Solutions (GES) has over the past several years successfully solved many customers severe damp problems with a unique approach that involves using one, multiple, or a combination of products that it has to offer.

### **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 into the affected subfloor area.

### Solar Air Module (SAM)

A SAM system may be installed to address problems in particularly difficult/wet areas by suppling warm dry air into problem areas, which will raise the evaporation rate and increase the drying effect. A second fan will then be installed on the opposite side of the building to ensure the moisture is removed.

### **Inline Fans**

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



#### Roof Mounted Solar Whiz

If the subfloor area isn't accessable, a simple but effective way to ventilate the subfloor area is to mount a Solar Whiz on the roof (or in the gable) - and draw moist air out from the subfloor via a duct.



## **Specifications**

Model	SF1400G	SF2100G	SF3000G	SF1200	SF1900	SF490	SF350	SAM1112	SAM11111
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	25 Watt. 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	:-9	14 volt DC brushless	6-14 volt DC brushless motor with dou <mark>ble s</mark> hielded ball bearings	shielded ball bearii	sau	6-18	olt DC brushless d double shielder	6-18 volt DC brushless digital design motor with double shielded ball bearings	with
Speed (12 volt)	900rpm	1150rpm	1300rpm	1300rpm	1300rpm	2350rpm	1680rpm	2350rpm	1680rpm
Fan Blade	Balanced 4-wing	design, ABS polyme high airflow	Balanced 4-wing design, ABS polymeric reinforced fan blade with UV protection. Designed for high airflow and low noise- 300mm diameter.	ade with UV protec	tion. Designed for	Balanced3 mech	-winged design. Lignanical resistance	Balanced3-winged design. Light aluminium providing low mechanical resistance and maximising airflow.	riding low
Body	Air	Aircraft grade aluminium	ur.	Hot galvar	Hot galvanised steel	Colds	heet steel rackets,	Cold sheet steel rackets, stainless steel fasteners	eners
Paint		Blac	Black electrostatic UV resistant spray cured in high temperature drying process. Anti UV Power Coating	sistant spray cured	in high temperatur	e drying process.Ar	ti UV Power Coati	ng	2018
Materials	Cold sheet ste	Cold sheet steel rackets, stainless steel fasteners	steel fasteners	Hot galvar	Hot galvanised steel	Colds	heet steel rackets,	Cold sheet steel rackets, stainless steel fasteners	eners
Dimensions (mm)	ø: 500 Depth: 185	ø: 500 Depth: 185	ø: 500 Depth: 185	ø:330 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	200×190×190 1KG	200x190x190 1KG
Noise Level	<40dBA	<45dBA	<45dBA	<45dBA	<45dBA	<56dBA	<43dBA	<56dBA	<43dBA
Colour				BIS	Black Powder Coating	TOTAL STREET			
Solar Air Collectors		For more info	For more information and technical specifications on our Solar Air Module (SAM) Units for heating or sub-floor ventilation, please refer to our SAM brochure, visit www.heatwithsolar.com.au, or call 1300 655 118	al specifications on r SAM brochure, vi	ation and technical specifications on our Solar Air Module (SAM) Units for heating or sub- please refer to our SAM brochure, visit <b>www.heatwithsolar.com.au</b> , or call 1300 655 118	e (SAM) Units for holar.com.au, or call	leating or sub-floor 1300 655 118	r ventilation,	

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