

Fan Construction and Components

Solar Whiz has the most comprehensive, flexible and powerful range of Solar Roof Ventilation fans from 900 m³/h to 3000 m³/h. The design and choice of materials also ensures whisper quiet operation as low as 40dBA for the SW1400.



Solar Whiz ventilation and cooling systems are a great way to make your home or work environment comfortable and more energy efficient whilst saving money

We have all the accessories you will need to maximise the performance of your system:

- Eave Vents- ensure sufficient air flow into the roof space
- Ceiling Vents- extract hot air directly from rooms
- Thermostat Control- prevents heat loss during winter
- Day/Night Pack allows the Solar Whiz to operate after sunset
- Roof cowls- if you don't have eaves

Solar Whiz also has the economical and eco-friendly ventilation solution for your home, Business, Caravan, Boat, Car & more!

Visit our showroom at:

AIRDRY Shop, 1/2-4 Bonnal Rd Erina

Call us: 1300 AIRDRY (247 379)

Email us: mail@solair.com.au

Or contact your local dealer:



Warranty

The whisper quiet Solar Whiz is designed and manufactured for durability in harsh Australian conditions and is backed up by a substantial warranty. We have a 10 year warranty on PV panels and a 2 year warranty on all other components. An extended warranty also available.

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.



The smart way to stay cool.

Solar Roof Ventilation and Cooling Systems

Is the heat “getting” to you?
Are you hot & bothered?
Are you spending a fortune
on air conditioning?



Beat the heat and stay cool and comfortable with Solar Whiz whilst saving money

Roof temperatures throughout most of Australia often reach 60°C – 70°C during the summer months.

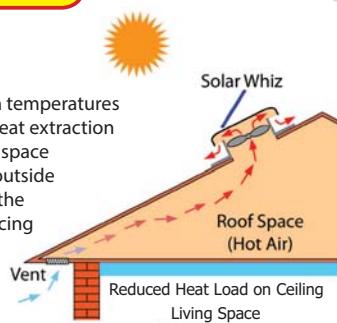
By ventilating your roof space, Solar Whiz effectively reduces the heat load on your ceiling and helps you keep the temperature inside the house under control, whilst reducing running time and increasing the efficiency of your ducted air conditioning.

www.solair.com.au

✓ See How it Works

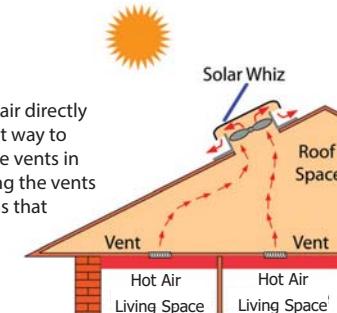
Standard Installation

In summer roof spaces can reach temperatures in excess of 70 °C. A Solar Whiz heat extraction fan is designed to bring the roof space temperature down close to the outside ambient temperature; reducing the heat load on the ceiling by replacing the hot air with ambient air through the eaves.



Heat Extraction from Rooms

Solar Whiz may also remove hot air directly from specific rooms. The simplest way to achieve this is by placing closable vents in the warmest room(s) and opening the vents into the roof space, which means that the replacement air for the roof space will be partially supplied through these vents.



If required, it is possible to connect ducting directly to the Solar Whiz to extract air from specific areas.

Simple Installation

Solar Whiz is powered by a low voltage solar panel and does not require an electrician or a connection to a power point. No wiring means that the Solar Whiz can be installed quickly and effectively on the roof by any handyman.

Ask for a copy of our detailed DIY instructions.

Why not just install a whirly bird?

According to a study by Sydney University, the average good quality whirly bird moves about 100 m³/h. In order to keep the roof space temperature close to the outside ambient temperature your roof will require 3-4 air changes an hour. To compensate for resistance a significant airflow capacity is required. This will allow cooler replacement air to enter the roof space as the hot air is removed.

As a rule of thumb, Solar Whiz recommends a minimum of 1400 m³/h capacity (SW1400) for a 150m² standard pitched roof for effective ventilation. This is equivalent to approximately 14 whirly birds. However, the Solar Whiz only requires one roof penetration/installation – not 14!

★ Why are passive/convection systems not enough?

We all know that hot air rises - but it also expands - and it expands in all directions. If you have vents in your roof space they will let some hot air out; however, vents only work when the roof space is already warm and the expanding air starts radiating into your home. To combat this problem, Solar Whiz starts from the moment sun first shines on the roof and therefore prevents the heat from building up.

Not just hot air!



Other applications for Solar Whiz:

Reduce moisture levels: Solar Whiz is also a very effective way to reduce moisture levels in the roof space. The extraction fan removes moist air, which will combat damaging effects such as condensation in the roof and in extreme cases condensation dripping onto insulation / ceiling causing damage, such as cracking plaster and peeling paint. A Solar Whiz will also help prevent mould and mildew and protects the roof structure.

Subfloor Ventilation: The Solar Whiz has proved extremely efficient for sub floor applications, due to the high volume of air it moves and the very low noise level. However, the biggest benefit of solar sub floor ventilation is the fact that the fan generally ventilates the subfloor when it is sunny and therefore avoids the problem with main powered sub floor ventilation systems, which actually may increase moisture levels under the house, when operating during wet weather.

Please refer to our sub floor ventilation brochure for more information including our smaller solar fans.

Where to use Solar Whiz

Retrofitting is easy, but every new building should incorporate one or more Solar Whiz fans to improve energy efficiency and comfort levels. Here is a list of the most popular applications and uses: Homes, sheds, offices, holiday houses, stables, motels, schools, factories, warehouses, nursing homes, storage facilities, consulting rooms, day care institutions, and much more!

What if my roof doesn't face the sun?

The Solar Whiz can be turned to face the sun no matter which way the roof is facing so not having a north facing roof is no problem! The adjustable PV panel mounting allows you to choose a suitable angle (up to 80°) for any pitch even if your roof faces south.

Model	Roof mounted	Gable mounted
Models Available	SW 900 - SW 1400 SW 2100 - SW 3000	SW 1400G, SW 2100G SW 3000G
Capacity	900 m3/h, 1400 m3/h 2100 m3/h, 3000 m3/h	1400 m3/h, 2100 m3/h, 3000 m3/h
PV panel Polycrystalline. High-impact resistant panel	Adjustable angle 0-80 degrees 10 watt, 10 watt, 20 watt, 25 watt	All models adjustable mounting brackets 10 watt, 20 watt 25 watt
Fan motor	6-14 volt DC brushless motor with double shielded ball bearings	
Fan Decibels	<40dBA, <40dBA <45dBA, <50DBA	<40dBA, <45dBA, <50DBA
Fan blade SW 900	Balanced 4-wing design, aluminium alloy designed for high airflow and minimal noise - 200 mm diameter	
Fan blade (SW 1400 -3000)	Balanced 4-wing design, ABS polymeric reinforced fan blade with UV protection designed for high airflow and low noise - 300 mm diameter	
Fan cap	Aluminium alloy for maximum durability	N/A
Body	Corrosion resistant Steel (superior corrosion resistance suitable for costal installations)	N/A
Flashing (SW 900)	Aluminium 400 x 400 x 0.9mm	N/A
Flashing (SW 1400-3000)	Aluminium 500 x 500 x 0.9mm	N/A
Coating	Electro Static UV resistant spray cured in high temperature drying process	
Hardware	Cold sheet steel brackets, stainless steel fasteners and electroplated mesh	
Dimensions	Dia:460mm Height:240mm All other Models Dia:560mm Height:360mm	All Models Diameter: 500mm Depth: 180mm
Packing Size	SW900 475x475x260mm SW1400 620x620x280mm SW2100 620x620x280mm SW3000 670x620x280mm	520 x 520 x 280mm 570 x 520 x 280mm 670 x 520 x 280mm
Packing Weight	6Kg, 10Kg, 11Kg, 12kg	6Kg, 8kg, 9kg
Colour	Black powder coating	
Options	Thermostatic Control: Fixed temperature 30°C or adjustable 10-30°C Eave Vents, & Ceiling Vents, Night operation	

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