



Solar Whiz

The Smart way to stay cool

Products Information

Solar Light Whiz
The Smart Solar Skylight Alternative

Solar Whiz
The Smart Way to Stay Cool



Global Eco Solutions

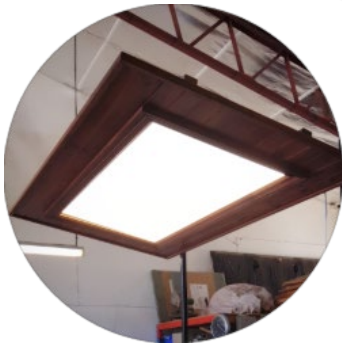
Global Eco & Environmental Solutions is an Australian supplier of solar heating, solar skylighting and especially roof ventilation systems. All our products operate thanks to the solar energy, which benefits your energy savings, and benefits the environment.

We distinctly manufacture & distribute three solar products: **Solar Whiz**, a powerful roof ventilation system; **Solar Light Whiz**, a highly-modular imitation skylighting system; and **Solar Air Module**, a solar heating system.



"(...) my **Solar Whiz** was placed in my roof just in time before the high temperatures hit. I remember on very hot days, I could not sleep at nights in my bedroom because it was ever so warm – but since the installation of the Solar Whiz, the rooms in my house are much cooler and we can actually sleep at night! Thank you and I am considering installing another one."

Shengul & Alp Koyser (Lalor, Victoria)



"We have a large patio area built onto the house which caused the kitchen and family areas to be very dark. We called Sunshine Skylights out to get a quote on skylights and after seeing our problem, suggested **Solar Light Whiz**. They have actually been amazing, lighting up a much larger area than a skylight could have achieved. We are very impressed by the product."

David & Janet (Caloundra, Queensland)



"My family installed a four panel **SAM (Solar air Module)** system which works really well (...) When the sun is shining, huge amounts of warm, dry and importantly, fresh air is pumped into the house. The house reaches 20+°C, keeping the home warm for long periods of time. I would recommend it as a way to offset heating expenses and meet health and environmental needs."

Michael Matuschka (Ulladulla, New South Wales)

Our range of solar-powered products are designed to improve the quality of life in your home. Looking to keep the heat out of your home, or supplement the efficiency of your air conditioning? Looking to improve your lighting, or install a skylight in a place you couldn't normally do so? Looking to increase your winter home heating without any additional costs for heating?

Global Eco Solutions provides sustainable solutions for the modern home. In this information package, we will explain each product, and how they can be utilized.



Solar Whiz

The Smart Way to Stay Cool

The **Solar Whiz** is a powerful solar ventilator for roof spaces & home interiors. These ventilators can extract as much as **2,100 m³/h** (cubic metres of air per hour) for our largest units.

By using reliable solar ventilation, you guarantee:

1. Powerful airflow,
2. Condensation & moisture control,
3. Reliable heat extraction.

These elements ensure your home is protected during the hot summer period from harsh heat. **Solar Whiz** can be installed with ducting or can draw air through your home via roof vents.

The system is designed with flexibility in mind, and can cater to metal, or tiled roofs. It can also be supplied with a variety of add-ons that ensure that you have complete control over when it operates, or to ensure it operates at full power throughout the day, as well as the night.

Given that **Solar Whiz** is a solar ventilator, they operate via a PV panel mounted onto the fan itself. It can operate even in low-light conditions and guarantees reliable extraction when you need it most on those hot, scorching summer days.

In this package, we detail the specifications of each unit, our variety of add-ons, as well as installation styles to give further insight into the benefit of **Solar Whiz** installations.



The Smart way to stay cool



Solar Whiz – Smarter Ventilation

The SW-RAF700

SPECIFICATIONS

Airflow Capacity	700 m³/h
PV Panel	High-Impact Resistant Polycrystalline 10 Watt Panel
Fan Motor	10-24 Volt DC Brushless Motor Double-Shielded Ball Bearings
Fan Decibel	<40 dBA (at a meter away) Equivalent to library or bird chirping
Fan Cap	Aluminium alloy for maximum durability
Body	Corrosion Resistant Steel (Suitable for coastal installations)
Flashing	400mm x 400mm x 0.9mm
Coating	Electro Static UV resistant spray cured in high temperature drying process
Hardware	Cold sheet steel brackets, stainless steel fasteners & screen
Dimensions	Diameter: 460mm Height: 260mm Throat: 225mm
Packing Size	475mm x 475mm x 280mm
Packing Weight	10 kg
Colour	Black powder coating
Options	• Thermostat: Fixed Temperature (30 °C) OR Adjustable (10-30 °C) • Constant Current Module (Night Operations) • 300mm Adaptor for ducting



The SW-RAF700 is our smallest residential ventilator, capable of extracting air suitable for spaces up to 90 square meters.

This unit is ideal for extracting air from localized spaces such as:

- Cabins,
- Sheds,
- Shipping containers.

If you need a dedicated ventilation solution for a smaller space or single room, the SW-RAF700 is an ideal ventilator for you.



Solar Whiz – The SW-RAF700

The SW-RAF900

SPECIFICATIONS

Airflow Capacity	900 m³/h
PV Panel	High-Impact Resistant Polycrystalline 10 Watt Panel
Fan Motor	10-24 Volt DC Brushless Motor Double-Shielded Ball Bearings
Fan Decibel	<40 dBA (at a meter away) Equivalent to library or bird chirping
Fan Cap	Aluminium alloy for maximum durability
Body	Corrosion Resistant Steel (Suitable for coastal installations)
Flashing	500mm x 500mm x 0.9mm
Coating	Electro Static UV resistant spray cured in high temperature drying process
Hardware	Cold sheet steel brackets, stainless steel fasteners & screen
Dimensions	Diameter: 560mm Height: 360mm Throat: 330mm
Packing Size	620mm x 620mm x 280mm
Packing Weight	10 kg
Colour	Black powder coating
Options	• Thermostat: Fixed Temperature (30 °C) OR Adjustable (10-30 °C) • Constant Current Module (Night Operations) • 300mm Adaptor for ducting



The SW-RAF900 is a mid-range residential ventilator capable of extracting air volumes of up to 150 square meters.

This unit is ideal for extracting air from localized spaces such as:

- Smaller homes or units
- Second storeys of two-storey buildings,
- Small storefronts.

If you need a dedicated ventilation solution for spaces a SW-RAF700 isn't large enough for, consider the SW-RAF900 today.



Solar Whiz – The SW-RAF900

The SW-RAF1400

SPECIFICATIONS

Airflow Capacity	1,400 m³/h
PV Panel	High-Impact Resistant Polycrystalline 20 Watt Panel
Fan Motor	10-24 Volt DC Brushless Motor Double-Shielded Ball Bearings
Fan Decibel	<45 dBA (at a meter away) Equivalent to a quiet conversation
Fan Cap	High-Durability Aluminium Alloy
Body	Corrosion Resistant Steel (Suitable for coastal installations)
Flashing	500mm x 500mm x 0.9mm
Coating	Electro Static UV resistant spray cured in high temperature drying process
Hardware	Cold sheet steel brackets, stainless steel fasteners & screen
Dimensions	Diameter: 560mm Height: 360mm Throat: 330mm
Packing Size	620mm x 620mm x 280mm
Packing Weight	11 kg
Colour	Black
Options	• Thermostat: Fixed Temperature (30 °C) OR Adjustable (10-30 °C) • Constant Current Module (Night Operations) • 300mm Adaptor for ducting



The SW-RAF1400 is a larger mid-range roof ventilator capable of extracting air volumes of up to 225 square meters.

This unit is ideal for extracting air from localized spaces such as:

- Larger homes,
- Home interiors with ceiling vents,
- Businesses with service floors

The SW-RAF1400 is an ideal mid-range unit capable of extracting large volumes of air throughout the day. Consider the SW-RAF1400 for your home or business today.



Solar Whiz – The SW-RAF1400

The SW-RAF2100

SPECIFICATIONS

Airflow Capacity	2100 m³/h
PV Panel	High-Impact Resistant Polycrystalline 35 Watt Panel
Fan Motor	10-24 Volt DC Brushless Motor Double-Shielded Ball Bearings
Fan Decibel	<60 dBA (at a meter away) Equivalent to an air conditioning unit
Fan Cap	Aluminium alloy for maximum durability
Body	Corrosion Resistant Steel (Suitable for coastal installations)
Flashing	500mm x 500mm x 0.9mm
Coating	Electro Static UV resistant spray cured in high temperature drying process
Hardware	Cold sheet steel brackets, stainless steel fasteners & screen
Dimensions	Diameter: 560mm Height: 360mm Throat: 330mm
Packing Size	680mm x 610mm x 280mm
Packing Weight	14 kg
Colour	Black powder coating
Options	• Thermostat: Fixed Temperature (30 °C) OR Adjustable (10-30 °C) • Constant Current Module (Night Operations) • 300mm Adaptor for ducting



The SW-RAF2100 is our largest residential roof ventilator capable of extracting air volumes of up to or beyond 300 square meters.

This unit is ideal for extracting air from localized spaces such as:

- Large homes,
- Offices,
- Stables.

The SW-RAF2100 is useful in both commercial, and residential properties. If you need a powerful ventilator that you can rely on in the summer, accept no substitute.



Solar Whiz – The SW-RAF2100

Add-ons

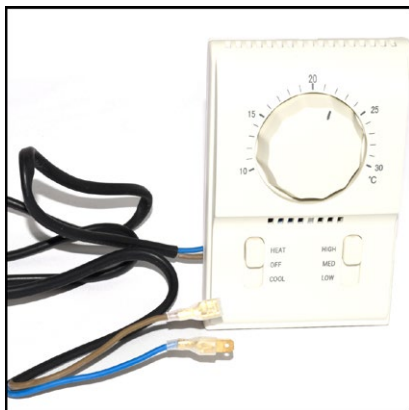
Constant Current Module, Adjustable & Fixed Thermostat

Solar Whiz offers a wide variety of add-ons that can help you get the most out of your home ventilation. The **Constant Current Module** allows you to run your **Solar Whiz** installation at full capacity when solar charge has been depleted. This allows ventilation at night! **Our Fixed & Adjustable Thermostats** ensure that you can control when your **Solar Whiz** operates; ensuring you don't extract warm air in winter.



Constant Current Module
(Night Operations Kit)

Model	ELEC124D
Components	- Constant Current Module 24V 3A Power Supply
Weight	<1KG



Adjustable Temperature Thermostat

Model	SW1112
Temperature	10 °C – 30 °C
Voltage	12-240 Volts
Weight	<1KG



Fixed Temperature Thermostat

Model	SW1110
Temperature	30 °C
Weight	<1KG

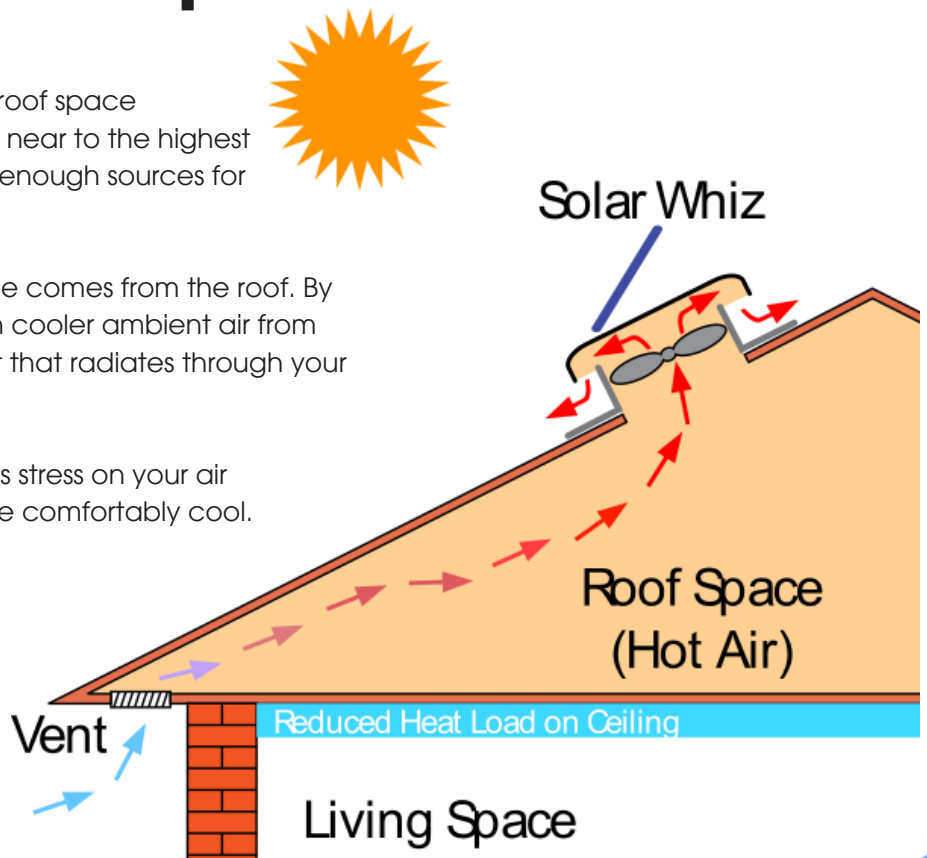
Extraction Principle

Roof Space Ventilation

Our most common style of installation is roof space ventilation. We simply install a Solar Whiz near to the highest point of your roof, and ensure there are enough sources for air intake.

25% to 35% of heat that enters your home comes from the roof. By extracting this heat and replacing it with cooler ambient air from outside, you reduce the amount of heat that radiates through your ceiling.

This ensures a cooler roof space, and less stress on your air conditioning solutions to keep your home comfortably cool.



This style of installation ensures:

- Reduces heat load on your ceiling,
- Less stress on air conditioning to cool your home,
- Increases efficiency of ducted air conditioning systems,
- Cooler roof space at night (with night operations kit),
- Reduces moisture levels in roof space.

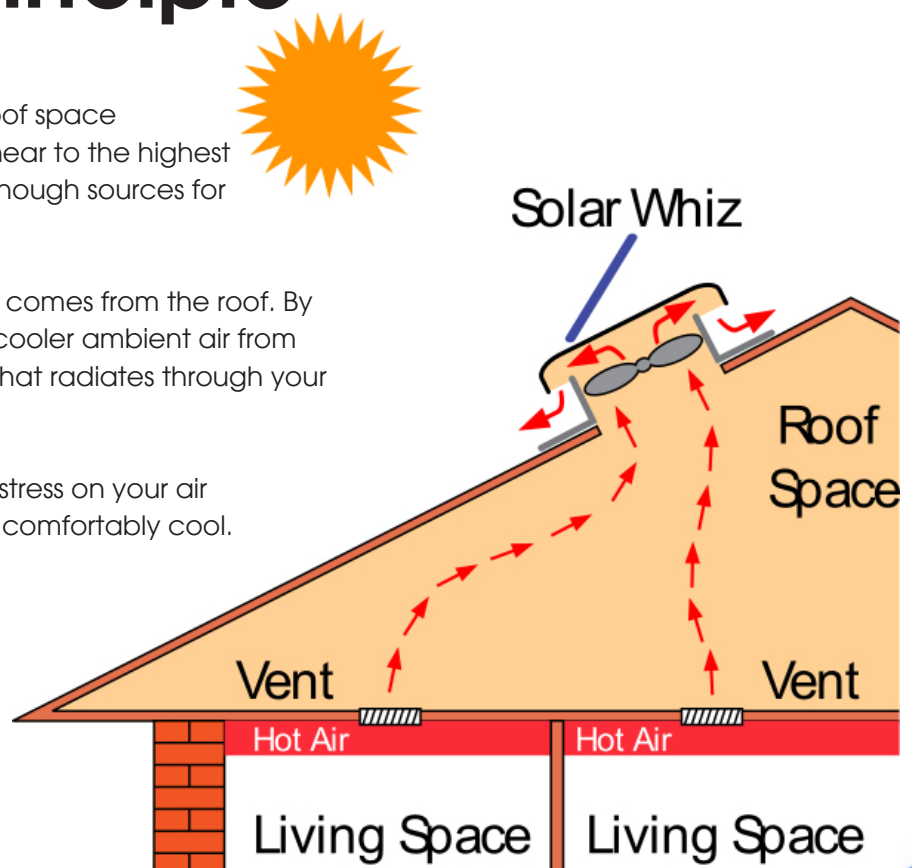
Extraction Principle

Ceiling Vent Extraction

Our most common style of installation is roof space ventilation. We simply install a Solar Whiz near to the highest point of your roof, and ensure there are enough sources for air intake.

25% to 35% of heat that enters your home comes from the roof. By extracting this heat and replacing it with cooler ambient air from outside, you reduce the amount of heat that radiates through your ceiling.

This ensures a cooler roof space, and less stress on your air conditioning solutions to keep your home comfortably cool.



This style of installation ensures:

- Reduces heat in your roof space & inside your home,
- Less stress on air conditioning to cool your home,
- Fresh air cycling through your living space,
- Reduced condensation levels indoors, & inside your roof space,
- A powerful addition to an evaporative air conditioner.

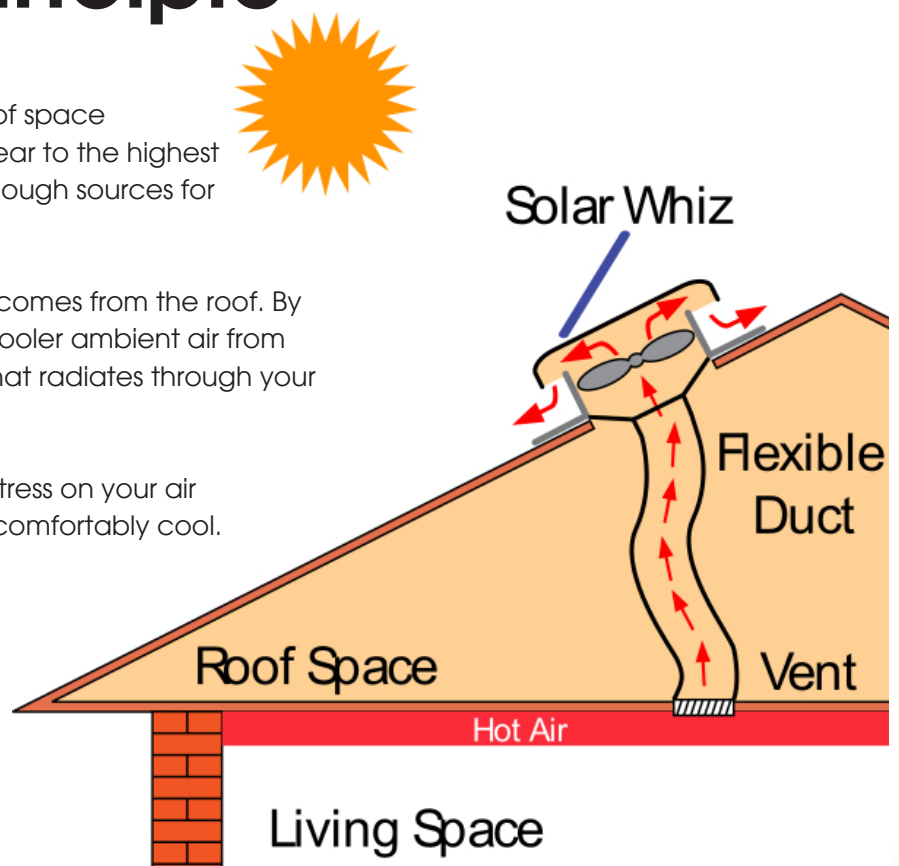
Extraction Principle

Ducted Ventilation

Our most common style of installation is roof space ventilation. We simply install a Solar Whiz near to the highest point of your roof, and ensure there are enough sources for air intake.

25% to 35% of heat that enters your home comes from the roof. By extracting this heat and replacing it with cooler ambient air from outside, you reduce the amount of heat that radiates through your ceiling.

This ensures a cooler roof space, and less stress on your air conditioning solutions to keep your home comfortably cool.



This style of installation ensures:

- Powerful air extraction from single rooms to either cool, or reduce condensation,
- A great way to extract large volumes of fumes or condensation (think showers or kitchens),
- Ideal for channeling moisture from evaporative air conditioners,
- Protects your home from condensation & mould growth,
- Good to partner with a SAM Installation.

