

GREEN-VENT Solar Extraction Fan

The Green-Vent Solar Extraction Fan is a roof ventilation system that can be installed into commercial or residential roof spaces to remove the trapped heat between the ceiling and the roof. The temperature inside your roof space can reach temperatures up to 70°C during the summer months which creates a heat load on ceiling insulation and air conditioning duct work. Green-Vent Solar utilizes the renewable energy source, the sun, meaning it costs you nothing to quietly exhaust the hot air and help reduce the cooling costs of your building.

During the winter months any moisture laden air trapped inside your roof space can condense in the cooler temperatures, resulting in the growth of mould and mildew. Circulating clean fresh air will reduce the occurrence of this and prolong the life of your roof.

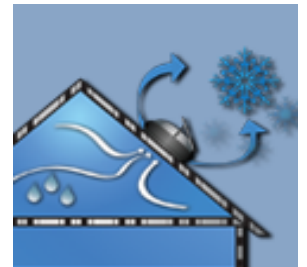
Summer Months

1. Heat transfers through your roof and into your ceiling space, increasing the temperature.
2. The Green-Vent Solar Extraction Fans photovoltaic solar panel converts sunlight energy into electrical energy.
3. The electrical energy drives a motor that spins a fan blade, which in turns exhausts the heat from your attic.



Winter Months

1. Even during winter months, the Green-Vent Solar Extraction Fans photovoltaic solar panel can convert sunlight energy into electrical energy.
2. The electrical energy drives a motor that spins a fan blade, which in turns exhausts the moisture laden air from your roof space and preventing mould & mildew build up.



How Many Fans Do I Need?

The amount of ventilation a ceiling space needs is determined by many factors, but in general the more the ventilation your ceiling space has, the better off you will be. As ceiling air turnover is increased and fresh make-up air is brought into the roof space, the roof space temperature will begin to approach that of the ambient outside air temperature, which in turn minimizes heat transfer into your home. As long as your roof space has plenty of fresh air make-up ventilation, more airflow through the roof space will only increase the cooling performance of your fan.



Product Features

- Fully adjustable solar panel – tilts and rotates.
- Improved solar panel design.
- High output motor.
- High performance lightweight fan blade.
- Guaranteed performance – no wind required.
- Optional Thermostat included.
- Quick and easy installation – 30 minutes or less.
- Flashing designed to fit any roof type.
- Extremely quiet operation.
- 10 year manufacturer warranty on Solar Panel & Fan Housing
- 1 year manufacturer warranty on Electrical Motor



Product Specification

| Parts & Accessories | Green-Vent Solar 15W | Green-Vent Solar 30W |
|----------------------------|------------------------------------|--------------------------|
| Solar Panel | 15 Watts - 36 Cell Polycrystalline | 30 Watts Polycrystalline |
| Throat Size | 300mm | 350mm |
| Motor | 38V DC Motor | |
| Shroud | UV Stabilized Thermoplastic | |
| Flashing | 0.55mm (35 Gauge) Pressed Steel | |
| Environment Control System | Optional | Included as Standard |

Environment Control System (Optional)

The ECS is an automated system for running the fan when the environmental conditions demand it. If the temperature or humidity in the roof space is too high the fan will operate. Once conditions return to lower levels, the fan will stop running. When running on mains power the fan will run for 8 minutes every half hour.

The settings of the ECS as follows:

- Temperature Control: Turns fan ON at 27°C & OFF at 25°C.
- Humidity Control: Turns fan ON at 75%RH & OFF at 65%RH.
- Manual bypass selection of thermal switch



GREEN-VENT Solar Calculator

The minimum number of Green-Vent Solar Extraction fan that you need can be determined based on the size and roof profile of your home.

Product Specification

| Roof Space (sqm) | Low Angle/Pitch up to 18° | Med Angle/Pitch up to 33° | High Angle/Pitch up to 45° |
|-------------------|------------------------------|------------------------------|-------------------------------|
| 100m ² | 1 Fan* | 1 Fan* | 1 Fan |
| 150m ² | 1 Fan* | 1 Fan* | 1 Fan |
| 200m ² | 1 Fan* | 1 Fan | 2 Fans |
| 250m ² | 1 Fan | 1 Fan | 2 Fans |
| 300m ² | 1 Fan | 1 Fan | 3 Fans |

* These size areas requiring ventilation may only require the use of 1x 15W Green-Vent Solar Extraction Fan.