



GREEN-VENT SOLAR

The Green-Vent Solar is a solar powered vent that is controlled using a humidistat and a thermostat to ensure it runs only when required. The vent does not require wind to operate, has a fully adjustable solar panel, is extremely quiet and will keep your home cooler in summer and drier in winter.

The Green-Vent Solar has been specifically designed for New Zealand's climate.

During summer the temperatures inside New Zealand homes can exceed 50°C in roof spaces, resulting in elevated temperatures as high as 30°C in living areas.

During winter the roof space temperatures can drop to 15°C with the internal temperature dropping even lower. This is when condensation and moisture start to form.

Controlled by a humidistat and a thermostat, the Green-Vent Solar will automatically switch on when temperature in the ceiling space reaches 27°C and switch off when it reaches 25°C. It will also switch on if the roof space reaches 75% relative humidity and switch off when the roof space reaches 65% relative humidity. This will cool your home when it is warm and reduce the amount of moisture build-up in the winter.

This will be beneficial to the life of your insulation and the health of your home by reducing the amount of moisture in the roof space.

The Green-Vent Solar will also reduce your power consumption by minimising the requirement for use of cooling units in your home.



- ✓ SOLAR PANEL TILTS & ROTATES
- ✓ OPERATES WITHOUT WIND
- ✓ ONLY OPERATES WHEN REQUIRED
- ✓ HUMIDISTAT INCLUDED
- ✓ THERMOSTAT INCLUDED
- ✓ MALLEABLE ALUMINIUM FLASHING
700 X 700 X 0.7mm
- ✓ 310mm THROAT
- ✓ SUITABLE FOR MOST ROOF TYPES
- ✓ DESIGNED FOR THE
NEW ZEALAND CLIMATE
- ✓ HIGH EFFICIENCY 38V DC MOTOR
- ✓ OPTIONAL MAINS POWER CONNECTION
- ✓ STYLISH BLACK CASING
- ✓ PRE-ASSEMBLED, READY-TO-INSTALL
- ✓ 7 YEAR WARRANTY*

ENVIRONMENT CONTROL SYSTEM

The Environment Control System (ECS) is an automated system for running the fan when environmental conditions demand it.

The system is powered by a 12V solar panel so if there is no sun, the unit will not operate.

However, you can plug the ECS into mains power (see below for information) using the transformer (included). The fan will run on solar power when it has sunlight, otherwise it will run on mains power and only run for eight minutes every half hour.

ELECTRICAL REQUIREMENTS FOR MAINS POWER OPERATION (OPTIONAL)

To set up night time moisture control you will need the services of a qualified electrician to install a 12V transformer (to be sourced in NZ).

You can plug the ECS into mains power (separate transformer required) which will then allow the ECS unit to control the Green-Vent Solar when there is not enough sunlight on the solar panel, such as at night.

IMPORTANT INFORMATION

- Transformer input is based on local power source.
- Transformer output to be 12V DC - 1.5Amp.
- Plug for transformer should be 5.5mm
- Temperature control is always ON.
- Humidity control is always ON.
- The unit will automatically switch ON at 27°C and switch OFF at 25°C.
- The unit will automatically switch ON at 75% relative humidity & switch OFF at 65% relative humidity.
- The system runs on the power of the solar panel so if there is no Sun, such as night time, the unit will not run regardless of temperature or humidity.
- The optimum direction for the solar panel to face is north.
- The energy usage is almost negligible at approximately 0.03k/w.

COMPONENTS

Solar panel: 35 Series DC 12V System 15 Watt Poly-crystalline silicon solar panels.

Top cover: UV stabilised thermoplastic-haircell texture (black).

Brackets: 1.5mm (16 guage) brackets and supports.

Fan: High performance, lightweight fan blade.

Motor: High efficiency 38V DC motor

Flashing: 0.55mm pressed steel flashing designed to fit almost any roof type.

Flashing Dimensions: 700 x 700 x 0.7mm

Thermostat: Allows the fan to operate if the temperature exceeds 27°C.

Humidistat: Allows the fan to operate if the humidity reaches 75% and turns off when the humidity drops below 75%.

RECOMMENDED QUANTITY

| Floor area of roof/attic space | Low angle/ pitch up to 18° | Med angle/ pitch up to 33° | High angle/ pitch up to 45° |
|--------------------------------|----------------------------|----------------------------|-----------------------------|
| 100m ² | 1 Fan | 1 Fan | 2 Fans |
| 150m ² | 1 Fan | 1 Fan | 2 Fans |
| 200m ² | 1 Fan | 2 Fans | 3 Fans |
| 250m ² | 2 Fans | 2 Fans | 3 Fans |
| 300m ² | 2 Fans | 3 Fans | 4 Fans |

WARRANTY

*The Green-Vent Solar has a Manufacturer's Warranty of 7 years against defects occurring in the manufacturing process. (Excludes motor which includes a 12 month warranty) For all warranty information and enquiries, please call 0800 257 964 or visit www.alsynite.co.nz

YOUR AUTHORISED RETAILER IS: