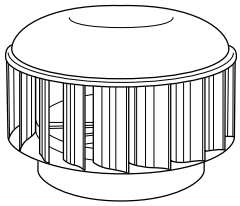
INSTALLATION INSTRUCTION
ecopower® EP900 Hybrid Ventilator

PRIOR TO INSTALLATION

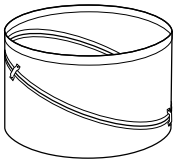
- Check all components are in the carton.
- It is advisable to test the ***ecopwer*** turbine, this can be done by connecting it to a power supply.
  NOTE: A qualified electrician must do this.

WARNING: DO NOT ATTEMPT TO INSTALL UNIT WHEN POWER IS CONNECTED. THE TURBINE WILL SPIN.

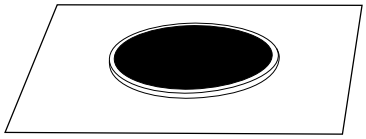
CONTENTS OF PACKAGES - COMPLETE UNIT WITH VARIPITCH AND FLASHING



Turbine



Varipitch Throat



Flashing

Also:

Warranty
Installation Instructions

NOTE: The ecopower does not include a control device.

WARNING: THE ECOPOWER EP900 TURBINE WEIGHS 30KG.

Handling

Due to the weight of the turbine it is recommended that the ecopower EP900 turbine is always lifted by 2 people.

Lifting

The ecopower EP900 turbine is fitted with a lift point located under the bracket assembly that allows the unit to be lifted upside down (Fig 1). To lift the ecopower using a crane or similar device, carefully turn the turbine over*, attach the crane hook or sling to the lifting point and carefully lift the ecopower turbine into position.

***Caution: The dome can be easily scratched or dented.**

Fig 1

METAL ROOF (CORRUGATED, KLIPLOCK, TRIM DECK, ETC) UNDER RIDGE INSTALLATION

Step 1

Select the appropriate position on the roof as referred to in (Fig 2), ensuring the ventilator will not be sheltered from the wind. Place the base flashing under the ridge cap.

Note: When selecting the position of the vent, the means of weather proofing needs to be taken into account; the most efficient means is to locate the flashing under the ridge cap.

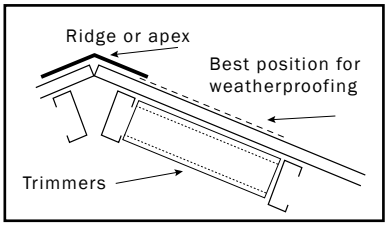


Fig 2

Step 2

Ensure that the flashing covers the corrugations or ribs equally, then mark a circle using the flashing as a template. Cut hole. Once the hole has been cut, turn up the corrugations or pans.

Note: If the purlin spacing is greater than 1000mm, trimmers may be required. Install the trimmers between the purlins on either side of the opening (Fig 2). Do not cover the opening (Fig 3).

Secure the flashing to the roof (for number of fasteners see Table 1). If trimmers are used ensure the flashing is secured to the trimmers. It is recommended that an infill be used on the low side of the flashing. Coat all fasteners with silicone to ensure they are weatherproof.

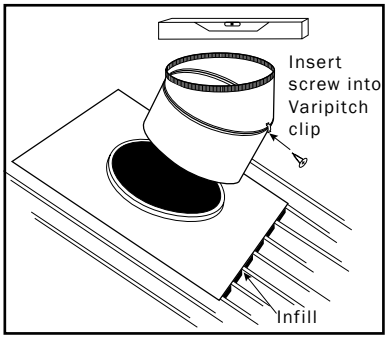


Fig 3

Step 3

When a Varipitch throat is being used, sit the Varipitch on the flashing and rotate the top and bottom halves until the top of the Varipitch is level (horizontal); it is recommended that a level be used (Fig 3). Fix the Varipitch to the flashing (for number of fasteners see Table 1).

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Step 4

Secure the two halves of the Varipitch by inserting self tapping screws or blind rivets into the Varipitch clips. Run a bead of silicone around the inside of the Varipitch seam.
Note: DO NOT apply silicone to joint between flashing and Varipitch. This is a natural gutter to release any trapped condensation.

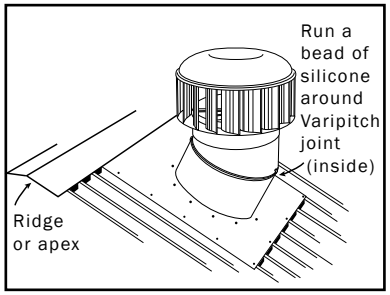


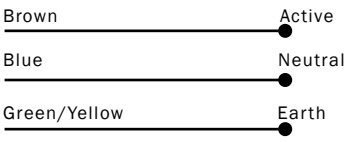
Fig 4

Step 5

Fit the turbine to the Varipitch (Fig 4). Check that it is level and adjust by tilting if necessary. Fasten the turbine to the top of the Varipitch (for number of fasteners see Table 1).

Wiring

THE ECOPOWER MUST BE WIRED BY A QUALIFIED ELECTRICIAN.



Electrical Specification	
	EP900
Voltage	200-277 VAC 50/60 Hz
Current (A)	1.21
Power (W)	260

Table 1 - Recommended Fastener Quantities

Unit Size (mm)	Head to Varipitch	Varipitch to Flashing	Flashing to Roof (Locate 6 close to Varipitch)
900	12	12	26

Either: 10 gauge 16mm tek screws with neo or 5/32 blind rivets are recommended. When non sealed rivets are used apply silicone over the rivets to seal.

CONTROL DEVICES

The ecopower EP900 can be controlled by any digital means. Edmonds stocks a range of standard controllers for Temperature, Humidity and Internal Air Quality. The wiring connections for each are below.

240 VAC ROOM THERMOSTAT - EBERLE RTR-E 6705

Electrical Connections

3	Active	Motor Connection
2	Not used for cooling	
1	Active	240 VAC Mains Connection
N	Not used for cooling	
N	Not used for cooling	

ROOM HUMIDISTAT - SIEMENS QFA1001

Electrical Connections

1	Active	240 VAC Mains Connection
2	Not used for dehumidification	
3	Active	Motor Connection

INDOOR AIR QUALITY CONTROLLER - SIEMENS QPA84

Electrical Connections

Y1	Active	Motor Connection
N	Neutral	
⏚	Earth	
⏚	Earth	240 VAC Mains Connection
N	Neutral	
L	Active	

Publish date: 08/11
Doc ref: I-106-B

EDMONDS
Technologies for a Sustainable Future
10 Stanton Road, Seven Hills, NSW 2147
Telephone 1300 858 674 **www.edmonds.com.au**
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