

Award Winning Design

Open throat

Unique among hybrid vents, **ecopower** has **no separate axial fan in the throat** allowing unparalleled airflow. Research using AS4740:2000 (Performance of Natural Ventilators) has shown clearly that any obstruction in the throat of a natural ventilator will greatly decrease vent performance under wind load. The level of flow reduction can be 40% or greater. Also, axial fans located in the throat of natural vents can produce significant noise levels.

Dual bearing function

The **ecopower's** direct drive centrifugal design means the bearing system of the motor functions as the bearing system of the ventilator. This means that the vent can be free spinning under wind load or power activated as conditions require.

Electronic Commutation motor

The use of an innovative Electronic Commutation (EC) motor ensures that the best energy efficiency features available are factored into the product design and also results in low maintenance.

Intelligent speed control

The EP900 model incorporates intelligent speed control. This allows a simple sensor to be connected for full feedback control of the motor. This can in turn be connected to a computer for ease of programming.

Performance

The **ecopower** has been developed to provide the highest levels of performance. When tested against comparable sized axial fans, **ecopower** has demonstrated extraordinary energy efficiency under power load, requiring up to 76% less power to maintain the same extraction rate.

The **ecopower** also operates at a new level of quietness running at levels up to 14.5dB(A) lower than traditional mechanical axial fans.

Product	Exhaust Rate [m³ / hr]	Power [W]	Noise @ 3m [dB(A)]
300mm, 2p, 1Ø-Axial fan	2160	160	55
EP400	2400	68	46
Improvement		63% lower	9 dB(A) lower
450mm, 4p, 1Ø-Axial fan	4280	480	60
EP600	4280	116	49
Improvement		76% lower	11dB(A) lower
630mm, 6p, 3Ø-Axial fan	9000	1000	60
EP900	10000	260	45.5
Improvement		76% lower	14.5 dB(A) lower



EcoPower Energy Efficient Whole House Ventilation and Comfort



EcoPower Explained

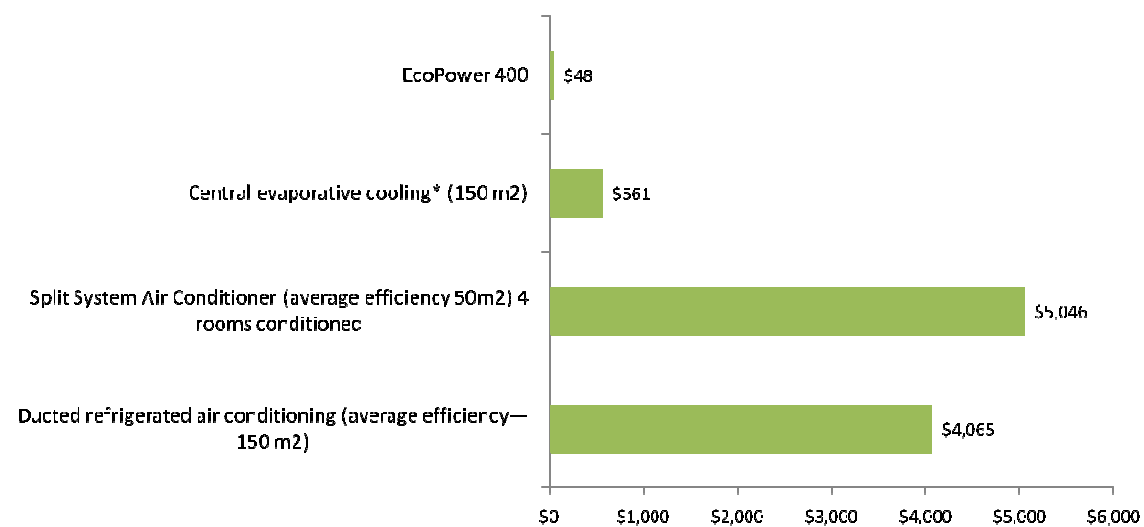
EcoPower is a revolutionary award winning ventilation system that will provide you and your family with clean, fresh air throughout your home.

EcoPower is a Hybrid ventilation system offering whole house comfort that will reduce temperatures in your home by cooling roof spaces and ventilating living spaces through conventional looking ceiling grilles.

Reduce Your Cooling Costs and Save the Planet

EcoPower as a whole house ventilation system is designed with reducing your energy costs and saving the planet in mind.

- EcoPower uses a fraction of the energy of ducted or split system airconditioning units or axial fans.
- The below example of energy and greenhouse gas reductions of 75% are achieved, this equates to an annual greenhouse gas emissions reduction of 12.3 tonnes based on the use of coal fired electricity.
- The **ecopower** not only uses less power in powered mode, but can also run for a shorter period due to the availability of continuous ventilation in natural mode. This allows for similar air change rates over a 24 hour period compared to the mechanical unit, which must run for a longer period.
- Improve air quality by lowering impurity levels caused by human respiration and chemical emissions – mainly volatile organic compounds (VOCs) – from carpets, furniture, paints, cleaning products and the like.



Simple Controls for Comfort

- **Mechanical switch** – A simple mechanical switch can be used similar to that of a light switch. The operator can switch the **ecopower** to power mode as they require by simply activating the on/off switch.
- **Temperature** – A thermostat can switch the **ecopower** to power mode once the temperature in the building passes a set point. When the temperature in the building falls below the set point the **ecopower** will return to natural mode.
- **Humidity** – A humidistat can switch the **ecopower** to power mode once the humidity levels in the building passes a set point. When the humidity levels in the building drop below the set point the **ecopower** will return to natural mode.
- **Time** – A timer can switch the **ecopower** to power mode once the chosen time has been reached. The **ecopower** will return to natural mode once the desired time frame has been exceeded.

