

Refer to product table below for applicable product codes covered by this document

Issue

Α

### **Product Type & Application**

The Bradford EcoPower Hybrid Ventilator is designed to exhaust heat and moisture from non-BAL residential (Class 1) and commercial roofs (Class 2 to 9). The product incorporates a vertical vane turbine ventilator to allow it to operate under wind power or via its high efficiency electronically commutated (EC) motor.

### Compliance with the NCC

 There are no relevant clauses within the NCC for this product to comply with.

### **Evidence of Suitability**

 There are no relevant clauses within the NCC to show compliance with – refer to the Additional Data section of this PTS for other compliance data

### Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool and dry area.
- Do not attempt to repair contact Bradford Ventilation.
- This product requires regular check for wear/tear.

## **Specific Design or Installation Instructions**

- Caution: The turbine head of this product can rotate without warning (even during installation) always keep body parts away from moving components.
- This is a general-purpose hybrid ventilation product, always refer to the installation guidance provided with the product prior to installation.
- Safety: It is recommended to connect EcoPower ventilators to a D-curve electrical circuit breaker.
- The table below shows the minimum make-up air requirement per ventilator that should be provided in accordance with AS1668.2

Product	Make-Up Air* per ventilator - 100% open, evenly distributed open area		
EP400	≥ 0.3m²		
EP600	≥ 0.5m²		
EP900	≥ 0.9m²		

- Make-up air should be provided via evenly distributed openings which are permanently open and positioned to help the ventilator work more effectively and efficiently (refer to the product installation guide for guidance) – note that these openings may also require ember protection in BAL zones which may restrict airflow and require the replacement air/make-up air area calculation to be increased.
- The source of make-up air should be outdoor air.
- The rotating head of this product must be installed horizontally to ensure correct operation – adjustment of the varipitch and base flashing is critical to achieve this orientation (refer to the installation guide for details)
- If the product is installed with a stainless-steel mesh, it should be periodically inspected to remove foreign objects and/or dust build-up to maintain airflow.
- This product requires specific areas to be sealed against water entry and other areas to be left unsealed to allow internal condensation drainage – refer to the installation guide for details.

For general installation guidance refer to the product installation guide at www.bradfordventilation.com.au

### **Limitations of Use**

- Do not use for exhausting hazardous, abrasive, explosive materials, alkaline vapour, corrosive or in very high moisture environments (such as water tanks).
- This product is not suitable for use in cyclonic regions.
- This product is not suitable for use in Bush Fire (BAL) or FZ rated areas.
- The optional stainless-steel mesh used in this product as an insect guard does not comply with BAL requirements
- Seek technical advice from Bradford Ventilation on application suitability if unsure.

CSR

Refer to the product warranty at bradfordventilation.com.au for

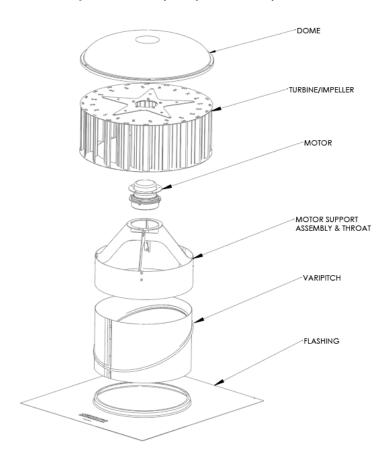
more information.



# Applicable Product Codes (SKU) - EcoPower 400

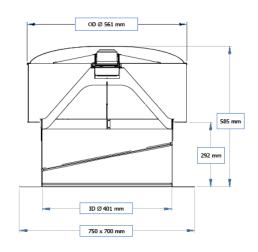
Variant	Material Code
EcoPower 400 Mill Finish	167410
EcoPower 400 Special	600678

## Product Specifications (in exploded view) – EcoPower 400



### **Product Information Summary – EcoPower 400**

Electrical/General		
Voltage (V)	220-240	
Frequency (Hz)	50-60	
Pmax (W)	59.2	
Imax (A)	0.55	
Roof Opening Diameter (mm)	400	
Weight (kg)	9.42	
Max. Ambient Temp (°C)	60	



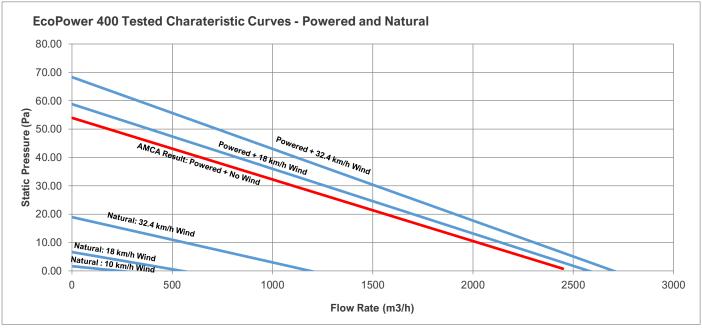
CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670 csrbradford.com.au

For further technical advice call 1300 850 305 or visit csrbradford.com.au

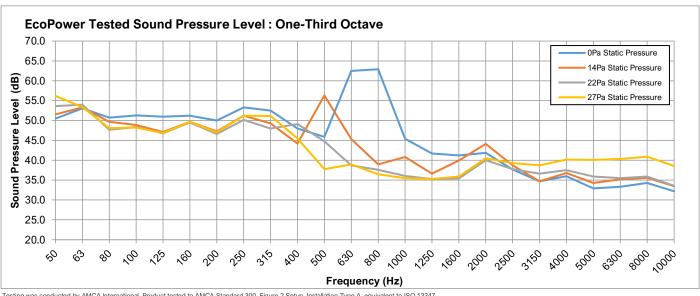
CSR



Performance Data – EcoPower 400				
	Static Pressure (Pa)			
	0 14 22 27			
RPM	344	1165	865	720
Flow Rate without Wind (m³/hr)	2484	1980	1476	1224
Power (W)	57	59	57	56
Sones	5.3	3.5	2.9	3.4
LwA (dB)	65	56	52	52



Airflow rates are tested by AMCA in accordance with ISO5801, equivalent to AMCA Standard 210. Natural performance and wind assisted data is tested as per ISO5801 with an external wind source providing a constant source of wind across the specimen. Wind assisted tests performed by Edmonds on Edmonds in house test equipment. Wind assisted performance testing is outside the scope of AMCA's test standards



Testing was conducted by AMCA International. Product tested to AMCA Standard 300, Figure 2 Setup, Installation Type A, equivalent to ISO 13347.

CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670

For further technical advice call 1300 850 305 or visit csrbradford.com.au

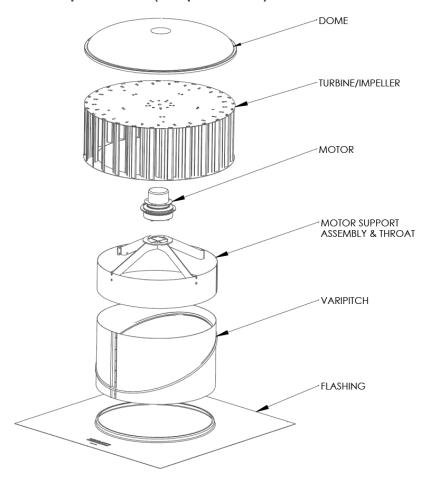




## Applicable Product Codes (SKU) - EcoPower 600

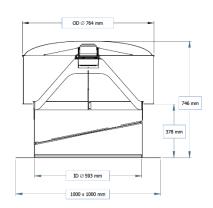
Variant	Material Code
EcoPower 600 Mill Finish	181187
EcoPower 600 Special	611679

## Product Specifications (in exploded view) - EcoPower 600



### **Product Information Summary – EcoPower 600**

Electrical/General			
Voltage (V)	220-240		
Frequency (Hz)	50-60		
Pmax (W)	98.8		
Imax (A)	0.71		
Roof Opening Diameter (mm)	600		
Weight (kg)	18.14		
Max. Ambient Temp (°C)	50		



CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670

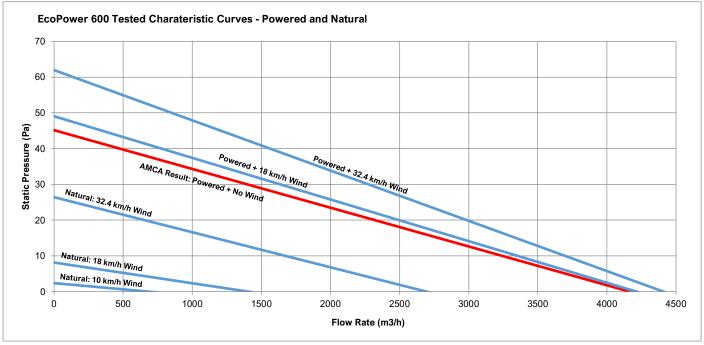
For further technical advice

call 1300 850 305 or visit csrbradford.com.au

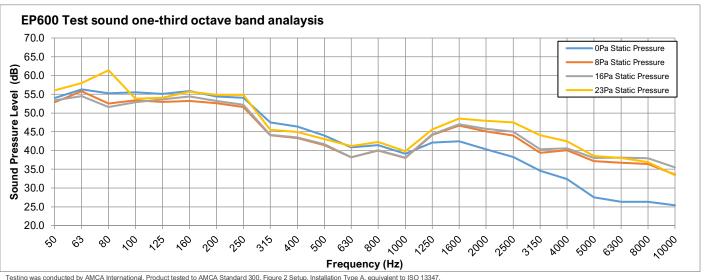




Performance Data – EcoPower 600				
	Static Pressure (Pa)			
	0 14 22 27			
RPM	235	230	232	251
Flow Rate without Wind (m³/hr)	4356	3492	2592	1728
Power (W)	96.9	98.8	97.1	89.6
Sones	3.2	3.6	3.8	4.3
LwA (dB)	54	55	55	57



Airflow rates are tested by AMCA in accordance with ISO5801, equivalent to AMCA Standard 210. Natural performance and wind assisted data is tested as per ISO5801 with an external wind source providing a constant source of wind across the specimen. Wind assisted tests performed by Edmonds on Edmonds in house test equipment. Wind assisted performance testing is outside the scope of AMCA's test standards



Testing was conducted by AMCA International. Product tested to AMCA Standard 300, Figure 2 Setup, Installation Type A, equivalent to ISO 13347.

CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670 csrbradford.com.au

For further technical advice call 1300 850 305 or visit csrbradford.com.au

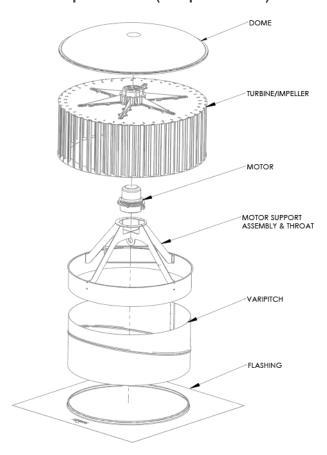




## Applicable Product Codes (SKU) - EcoPower 900

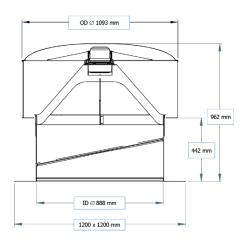
Variant	Material Code
EcoPower 900 Mill Finish	93688
EcoPower 900 Special	600680

## Product Specifications (in exploded view) - EcoPower 900



# **Product Information Summary – EcoPower 900**

Electrical/General			
Voltage (V)	220-240		
Frequency (Hz)	50-60		
Pmax (W)	212		
Imax (A)	0.904		
Roof Opening Diameter (mm)	900		
Weight (kg)	36		
Max. Ambient Temp (°C)	60		



CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670

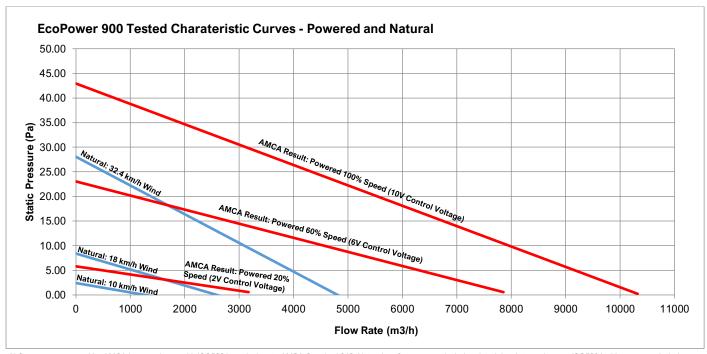
For further technical advice

call 1300 850 305 or visit csrbradford.com.au

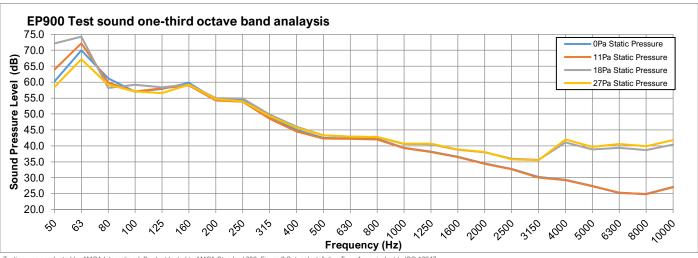




Performance Data – EcoPower 900				
	Static Pressure (Pa)			
	0 14 22 27			
RPM	168	168	170	189
Flow Rate without Wind (m³/hr)	10321	8272	6112	3650
Power (W)	204	212	207	172
Sones	3.4	3.6	4.9	4.2
LwA (dB)	54	54	56	55



Airflow rates are tested by AMCA in accordance with ISO5801, equivalent to AMCA Standard 210. Natural performance and wind assisted data is tested as per ISO5801 with an external wind source providing a constant source of wind across the specimen. Wind assisted tests performed by Edmonds on Edmonds in house test equipment. Wind assisted performance testing is outside the scope of AMCA's test standards. \*Standard fixed speed EP900 operates at 10V. \*\*2V and 6V curves only applicable if EP900 0-10V variable speed is optioned.



Testing was conducted by AMCA International. Product tested to AMCA Standard 300, Figure 2 Setup, Installation Type A, equivalent to ISO 13347

CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670 csrbradford.com.au

For further technical advice call 1300 850 305 or visit csrbradford.com.au

