



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

Issue

В

Product Type & Application

AiroMatic® Continuous Flow is a powered roof ventilator with a low voltage electronic commutating motor. It runs at a fixed fan speed to meet NCC Ventilation of Roof Spaces compliance requirements. It is specifically designed for residential (Class 1) and commercial roofs (Class 2 to Class 9) roof ventilation in non-cyclonic regions.

Compliance with the NCC

For use in Australia, when correctly specified and installed, this product provides the following compliance:

NCC2022

- Ventilation of Roof Spaces Meets the requirements of NCC2022 Volume 1 Amend. 2 F8D5 and ABCB Housing Provisions Standard 2022 Amend. 2 10.8.3 via performance solution for condensation management for NCC Climate Zones 6, 7 and 8.
- Weatherproofing Meets the requirements of the NCC 2022 Volume 1 Amend. 2 Weatherproofing Performance Requirement F3P1 and Volume 2 Amend. 2 Weatherproofing Performance Requirement H2P2 via Deemed-to-Satisfy (DtS) and performance solution pathways.

NCC 2019

- Ventilation of Roof Spaces Meets the requirements of NCC 2019 Volume 1 Amend. 1 F6.4 and NCC 2019 Volume 2 Amend. 1 3.8.7.4 via performance solution.
- Weatherproofing Meets the requirements of the NCC 2019 Volume 1 Amend. 1 Weatherproofing Performance Requirement FP1.4 and Volume 2 Amend. 1 Weatherproofing Performance Requirement P2.2.2 via Deemed-to-Satisfy (DtS) and performance solution pathways

Evidence of Suitability

- Ventilation of roof spaces NCC 2022 -
 - Surex Performance Solution Report SUR23137.
- Ventilation of roof spaces NCC 2019 Amend. 1 -
 - Cardno Performance Solution Report 80820109.
- Weatherproofing -
 - Excelo Consulting Engineers Performance Solution Report ECE24168 Class 1 & 10.
 - Excelo Consulting Engineers Performance Solution Report ECE24168 Commercial.

Limitations of Use

- **IMPORTANT** Do Not Modify This Product: Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed in this PTS.
- This product has not been tested for, and is not suitable for use in cyclonic wind regions C or D.
- Do not use for exhausting hazardous, abrasive, acidic and alkaline vapour or areas containing explosive or corrosive materials.
- This product is not suitable for use in Bush Fire BAL-12.5 to BAL-40 or BAL-FZ rated areas.
- This product is not suitable for use within 500m of a saltwater body.

Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool and dry area.
- The electronics and electrical components are designed for indoor installation only and should not come into contact with water.
- Do not attempt to repair contact Bradford Ventilation for service advice.

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

Specific Design or Installation Instructions

- Isolate power before installation.
- 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.
- The power supply and speed controller are for dry indoor use only. Ensure that the power supply and speed controller are not left on damp surfaces - fasten to the internal structure with screws or cable ties as required.
- Replacement outside air must be provided via evenly distributed openings such as Bradford Ventilation Metal Eave Vents positioned to facilitate cross-flow ventilation and help the powered ventilator to work more effectively and efficiently.
- Electrical connection requires 240VAC GPO for operation.
- Only use one powered ventilator per speed controller and power supply as supplied by Bradford Ventilation.
- The AiroMatic® has an unguarded fan assembly and should not be used in locations readily accessible to people or animals - the fan is intended for use facing an unoccupied space only.
- The fan speed is set for NCC Ventilation of Roof Spaces compliance, and can't be altered.





Specific Design or Installation Instructions cont.

 This product contains a fan which might be audible when in operation – avoid positioning the product directly over bedrooms, bedroom ensuites or on a roof area adjacent to, or overlooked by an upper storey level of the home where the fan noise may be heard.

NCC2022 Amend. 2 Ventilation of Roof Spaces Performance Solution Requirements in Table 1:

The table below shows the powered ventilator and replacement air configurations necessary to meet the condensation management requirement in NCC Climate Zones 6, 7 and 8. The NCC stipulates an open area requirement per meter length of the longest horizontal dimension of the roof - the performance solution provided in Table 1 is an equivalent solution derived from the powered ventilator air-flow rates.

AiroMatic® powered ventilators should be installed not more than 900mm below the ridge or highest point of the roof space, measured vertically.

Table 1. NCC 2022 Amend. 2 Bradford Performance Solution Table 1

Longest Horizontal Roof Dimension	Number of AiroMatic [®] Ventilators Required	Number of Bradford Metal Eave Vents Required	Number of Bradford Poly Eave Vents	Unobstructed area for air replacement ²
			Required	·
0 to <50m	1	4	6	0.15m ²
50m to <100m	2	6	9	0.21m ²

¹ Roof pitches with a slope range of 15° to 35° for tiled roofs and 3° to 35° for metal sheet roofs.

NCC2019 Amend. 1 Ventilation of Roof Spaces Performance Solution Requirements in Table 2:

- o Calculate the area (m²) of ceiling directly under the roof space;
- o Determine the pitch of the roof;
- o Install Airomatic(s) and Metal Eave Vents according to the Bradford Ventilation Performance Solution Table;
- o Distribute the powered ventilator(s) and metal eave vents evenly.

Table 2. NCC 2019 Amend. 1 Bradford Performance Solution

Roof Pitch	Total Ceiling Area ¹	AiroMatics Required	Metal Eave Vents	Poly Eave Vents	Make-Up Air Open Area ²
> 22°	< 203 m ²	1	4	6	0.15 m ²
> 22	< 407 m ²	2	6	9	0.21 m ²
	< 127 m ²	1	4	6	0.15 m ²
≤ 22°	< 254 m ²	2	6	9	0.21 m ²
	< 381 m²	3	8	12	0.28 m ²

¹ Total Ceiling Area is defined as the total ceiling area directly under the roof/attic space.

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



² The unobstructed area for air replacement is an alternate solution to replace Bradford Metal Eave Vents and assumes evenly distributed openings in accordance with the NCC requirement.

² The Make-Up Open Area air is an alternate solution to replace Bradford Metal Eave Vents and assumes evenly distributed openings in accordance with the NCC requirement.



Applicable Product Codes (SKU)

Variant	Material Code
AiroMatic® Continuous Flow Surfmist®	489173
AiroMatic® Continuous Flow Headland®	489171
AiroMatic® Continuous Flow Woodland Grey®	489174
AiroMatic® Continuous Flow Night Sky®	489172
AiroMatic® Continuous Flow Monument®	489670

Product Specifications

General	
Ventilator Type	Powered Roof Ventilator
Fan Diameter	230 mm
Minimum Throat Diameter (Not suitable for use in calculating NCC Ventilation opening requirements)	250 mm
NCC Ventilation Openings	NCC ventilation opening compliance requirements for Climate Zones 6, 7 and 8 are addressed by a Performance Solution, as detailed in the 'Compliance with the NCC' and 'Evidence of Suitability' sections above. The Performance Solution equates the NCC specified open area with a tested flow rate at a fixed speed for powered ventilators.
Product Weight	3.0 kg
Packaged Weight	3.65 kg
Roof Slope Installation Range	Tiled Roofs 15° to 35° Metal Sheet Roofs 3° to 35° Note: Where applicable all roof pitches must comply to AS1562.1, the NCC & Australian Standards weatherproofing requirements within the ranges above.

Electrical		
Power Supply Type	Electronic Switch Mode	
Input Voltage	100-240VAC, 1A, ~50/60Hz	
Output Voltage	24 VDC	
Cable Length	Approx. 1.8 m	
Installation Location	Indoor, Dry Area	
Fan Type	Electronic Commutating Motor	
Internal Voltage	24 VDC	
Protection Class	IP54	
Maximum Flow Rate	360 m³/hr at 0 Pa	

Material		
Clear Dome	UV Stable Clear Acrylic	
Housing	Weatherproof Acrylic	
Flashing	Aluminium	
Fan and Motor Housing	Polypropylene	
Fan Impeller	Glass-Filled Nylon	
Screws	Stainless Steel and Galvanised	

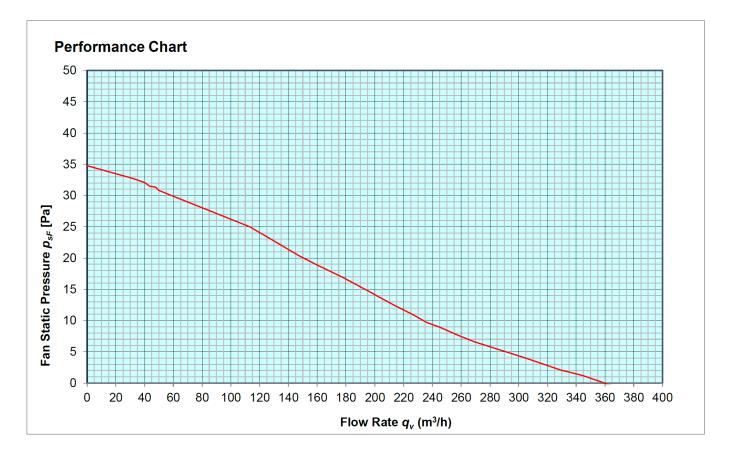
CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670 csrbradford.com.au

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

CSR



Product Performance – Ventilator Flowrate



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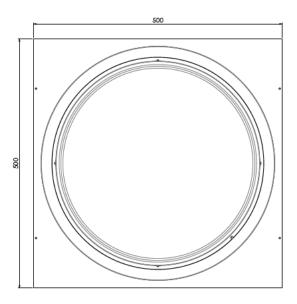
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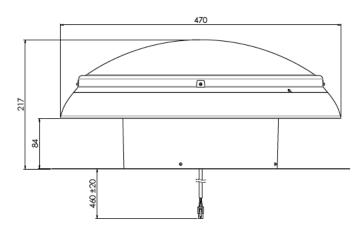


Product Dimensions

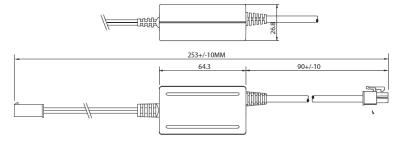
Top View



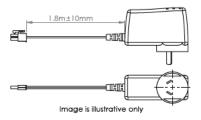
Front View



Speed Controller



Power Supply



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

