

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

Issue **B 10/2025**

Product Type & Application

AiroMatic is a smart roof ventilator with a low voltage electronic commutating motor fitted with temperature and humidity sensors to control fan operation and speed.

Compliance with the New Zealand Building Code

When correctly specified and installed, this product meets or contributes to compliance with the following performance requirements of the building code:

- B2 Durability B2.3.1(b) The materials of construction of the AiroMatic ventilator have a well-established history of use in service.
- **E2 External Moisture** E2.3.2 The Bradford Ventilation EcoPower has more than 20 years' history of use. It complies with the Australian NCC for use in all noncyclonic wind zones and is tested to AS4046.9.
- E3 Internal moisture E3.3.1 (contributes to) The AiroMatic ventilator removes moisture laden air from buildings and roof spaces
- F2 Hazardous building materials F2.3.1 The materials
 of construction of the AiroMatic ventilator do not emit or
 give rise to harmful concentrations of gas, liquid, radiation
 or solid particles.
- **G4 Ventilation** G4.3.1, G4.3.3 (contributes to) provides air changes to maintain air purity.
- G9 Electricity G9.3.1 The AiroMatic ventilator has electrical safety certification.

Basis of Compliance

- Weatherproofing Excelo Performance Solution Report ECE24168 Residential. CSR Bradford Roof Ventilator Weatherproofing Performance Solution, 5 March 2025.
- Electrical Equipment Safety Scheme Certificate-
- GMA-515619-EA.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability Second edition (Amendment 12), 28 November 2019.
- Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 for New Zealand Building Code Clause E2 External Moisture Third edition (Amendment 10), 5 November 2020.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause G4 Ventilation Fourth edition, 27 June 2019.

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.
- Do not use for exhausting hazardous, abrasive, acidic and alkaline vapour or areas containing explosive or corrosive materials.
- This product has not been tested for, and is not suitable for use in cyclonic wind regions.
- 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.co.nz 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.
- 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.
- 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.
- 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.

This Product Technical Statement is published in accordance with the Building Act 2004 Section 14g. It relates to this product when it is produced at a CSR approved facility in accordance with CSR Specifications and approved materials, is unmodified, and installed in accordance with the technical data, plans, specifications, and advice prescribed by the manufacturer. It relates to the provisions of the building code in effect at the date of issue of this Product Technical Statement.







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.

Table1 below indicates how many ventilators and vents are required for condensation management based on the longest horizontal dimension (e.g., the longest length of gutter) of the roof. Ventilation openings should be evenly distributed.

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

Table 1. Bradford Performance Solution Table for condensation management¹

Longest Horizontal	Number of AiroMatic®	Number of Bradford Metal	Number of Bradford	Unobstructed area for air
Roof Dimension	Ventilators Required ²	Eave Vents Required	Poly Eave Vents	replacement ³
	•		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.

Table 2 below indicates the ventilation opening requirements for condensation management when kitchen, bathroom, sanitary compartment or laundry exhaust systems are discharging into the roof space.

- o Calculate the area (m²) of ceiling directly under the roof space;
- o Determine the pitch of the roof;
- 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 Bradford Performance Solution

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

Bradford NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 277 123/ visit bradfordinsulation.co.nz/ email bradford@csr.co.nz Bradford NZ is a business division of CSR Building Products (NZ) Limited (NZBN 9429040750194)

CSR Bradford is a business division of CSR Building Products Limited (ABN 55 008 831 356). Manufactured by CSR Building Products Limited. The contents of this brochure are copyright protected and may not be reproduced in any form without prior written consent of CSR Bradford. Recommendations and advice regarding the use of the products described in this brochure are to be taken as a guide only, and are given without liability on the part of the company or its employees. We reserve the right to change product specifications without prior notification. Please refer to the CSR Bradford website for the latest revision of this document. The purchaser should independently determine the suitability of the product for the intended use and application.



² At pre-fixed speed.

³ The unobstructed area for air replacement is an alternate solution to replace Bradford Metal Eave Vents and assumes evenly distributed openings.

² At pre-fixed speed.

³ 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 Australian NCC requirement.



Applicable Product Codes (SKU)

Variant	Material Code
AiroMatic Surfmist	112155
AiroMatic Headland	112153
AiroMatic Woodland Grey	112156
AiroMatic Night Sky	112154

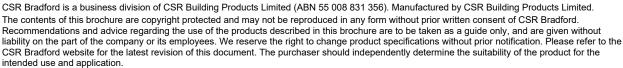
Product Specifications

General		
Ventilator Type	Powered Roof Ventilator	
Fan Diameter	230 mm	
Minimum Throat Diameter (Not suitable for use in calculating Australian NCC Ventilation opening requirements)	250 mm	
Product Weight	2.95 kg	
Packaged Weight	3.70 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 Building Code and associated standards.	

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	647 m³/hr

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	

Bradford NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 277 123/ visit bradfordinsulation.co.nz/ email bradford@csr.co.nz Bradford NZ is a business division of CSR Building Products (NZ) Limited (NZBN 9429040750194)

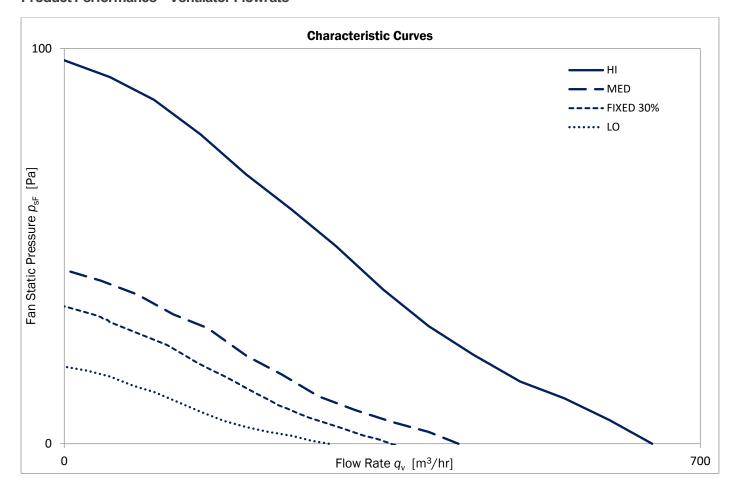




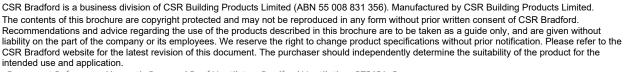




Product Performance – Ventilator Flowrate



Bradford NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 277 123/ visit bradfordinsulation.co.nz/ email bradford@csr.co.nz Bradford NZ is a business division of CSR Building Products (NZ) Limited (NZBN 9429040750194)







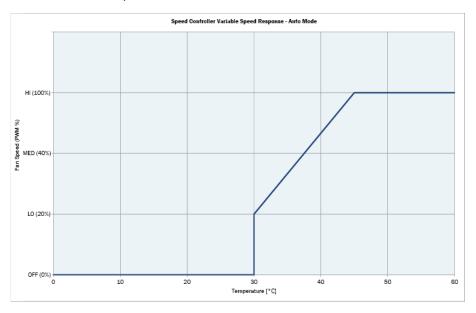


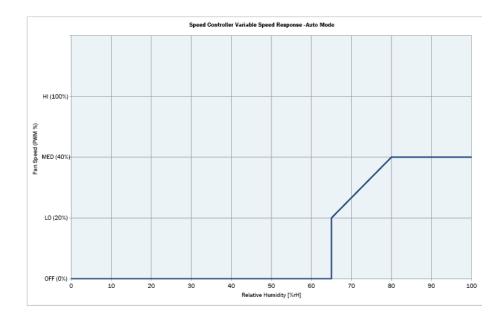
Ventilator Fan Speed Options

AiroMatic has 3 fixed speed options available (LO, MED, HI) or a variable (AUTO) speed which responds to both ambient temperature and to ambient relative humidity.

- In AUTO when measuring the temperature, the fan response will be off below 30°C, LO speed at 30°C and a linear increase in speed until HI speed is reached at 45°C.
- In AUTO when measuring relative humidity, the fan response will be off below 65%rH. At 65%rH the fan will start in LO speed and there will be a linear increase in speed until MED speed is reached at 80%rH.

The two charts below summarise the fan response.





Bradford NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 277 123/ visit bradfordinsulation.co.nz/ email bradford@csr.co.nz Bradford NZ is a business division of CSR Building Products (NZ) Limited (NZBN 9429040750194)

CSR Bradford is a business division of CSR Building Products Limited (ABN 55 008 831 356). Manufactured by CSR Building Products Limited. The contents of this brochure are copyright protected and may not be reproduced in any form without prior written consent of CSR Bradford. Recommendations and advice regarding the use of the products described in this brochure are to be taken as a guide only, and are given without liability on the part of the company or its employees. We reserve the right to change product specifications without prior notification. Please refer to the CSR Bradford website for the latest revision of this document. The purchaser should independently determine the suitability of the product for the intended use and application.

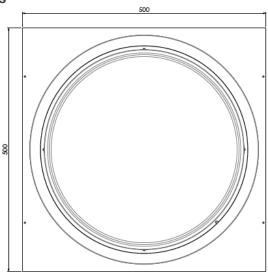




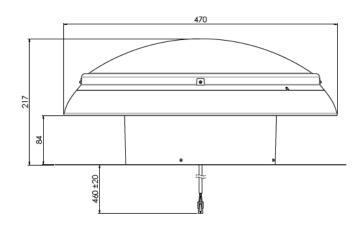


Product Dimensions

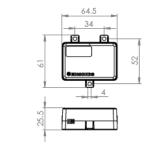
Top View



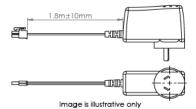
Front View



Speed Controller



Power Supply



Bradford NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 277 123/ visit bradfordinsulation.co.nz/ email bradford@csr.co.nz Bradford NZ is a business division of CSR Building Products (NZ) Limited (NZBN 9429040750194)

CSR Bradford is a business division of CSR Building Products Limited (ABN 55 008 831 356). Manufactured by CSR Building Products Limited. The contents of this brochure are copyright protected and may not be reproduced in any form without prior written consent of CSR Bradford. Recommendations and advice regarding the use of the products described in this brochure are to be taken as a guide only, and are given without liability on the part of the company or its employees. We reserve the right to change product specifications without prior notification. Please refer to the CSR Bradford website for the latest revision of this document. The purchaser should independently determine the suitability of the product for the intended use and application.

