

Hurricane® S2 Turbine Ventilator

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

Issue

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Product Type & Application

The Bradford Hurricane® S2 is a wind-driven turbine ventilator designed to ventilate buildings in moist and dusty environments in non-BAL regions.

Compliance with the NCC

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

NCC2022

 Weatherproofing - Meets the requirements of the NCC 2022 Volume 1 Weatherproofing Performance Requirement F3P1 via Deemed-to-Satisfy (DtS) and performance solution pathways.

NCC2019

 Weatherproofing - Meets the requirements of the NCC 2019 Volume 1 Amend. 1 Weatherproofing Performance Requirement FP1.4 via Deemed-to-Satisfy (DtS) and performance solution pathways.

Evidence of Suitability

• Weatherproofing - Northrop Report SY222211-00 - RPFA1.

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.
- Products installed within 1,000m of breaking surf are recommended to be specified with (optional) polyolefin or powder coat finish for additional corrosion protection.
- This product has not been tested for use in cyclonic wind regions C or D.
- This product is not sealed and therefore not suitable for the containment of smoke, preventing air entry or isolation of specific volumes of air.
- This product is not suitable for use in Bush Fire BAL-12.5 to BAL-40 or BAL-FZ rated areas.
- The optional stainless-steel mesh available for use in this product as an insect guard does not comply with BAL requirements.
- Product flow rate will be reduced if stainless steel mesh is not adequately maintained.
- Seek technical advice from Bradford Ventilation on application suitability if unsure.

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 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.
- This product may be used in dusty or moist applications in conjunction with a regular inspection and maintenance program. Refer to the installation guide for details.
- 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
Hurricane® 100-400	≥ 0.3m²
Hurricane® 450-600	≥ 0.5m²

- Make-up air should be provided from outside air sourced 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).
- 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.
- The size of the ventilator should be selected based upon the available roof area and required airflow performance.

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

Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool and dry area.
- Top load only damage may be caused to ventilator by stacking other items on top of the packaging and/or ventilator.
- Do not attempt to repair contact Bradford Ventilation for service advice.
- This product requires regular inspection and maintenance, which should be increased in frequency when used in harsh environments.

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



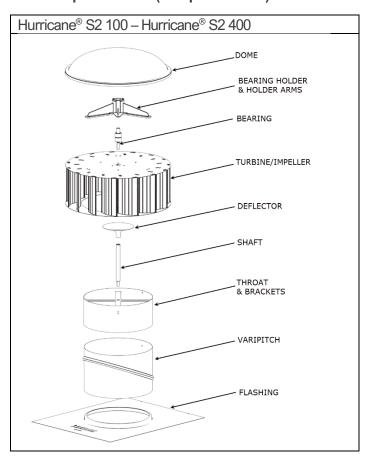


Hurricane® S2 Turbine Ventilator

Applicable Product Codes (SKU)

Hurricane® 100mm	Hurricane® 150mm	Hurricane® 300mm	Hurricane® 400mm
Custom	Custom	Custom	Custom
601150	601162	600670	600671

Product Specifications (in exploded view)



Product Information Summary S2 100 / S2 150 / S2 300 / S2 400

Ventilator Range	Hurricane® S2			
Ventilator Model	S2 100	S2 150	S2 300	S2 400
Ventilator Type (AS/NZS 4740:2000 cl 1.5)	Type 4 – Rotating Wind-Driven Roof Ventilator			
Ventilator Performance Class (A	Ventilator Performance Class (AS/NZS 4740:2000 Table 1.2)			
Effective Aerodynamic Area, EAA	0.003 m ²	0.009 m²	0.044 m²	0.082 m ²
Discharge Coefficient, Cd	0.539 - Class 2	0.529 - Class 2	0.712 - Class 1	0.731 - Class 1
Flow Coefficient, C _f	0.2 - Class 4	0.21 - Class 4	0.27 - Class 3	0.24 - Class 4
Nominal Performance* (m³/h)				
0 m/s	25 m³/h	76 m³/h	375 m³/h	699 m³/h
3 m/s	26 m³/h	79 m³/h	397 m³/h	742 m³/h
6 m/s	28 m³/h	87 m³/h	457 m³/h	857 m³/h

^{*}In accordance to AS/NZS 4740:2000 nominal performance parameters where h = 6m, ΔT = 14°C, T = 20°C

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



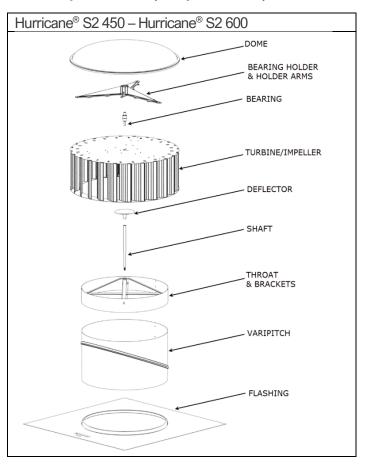


Hurricane® S2 Turbine Ventilator

Applicable Product Codes (SKU)

Hurricane® 450mm	Hurricane® 500mm	Hurricane® 600mm
Custom	Custom	Custom
600672	600673	600674

Product Specifications (in exploded view)



Product Information Summary S2 450 / S2 500 / S2 600

Ventilator Range	Hurricane® S2			
Ventilator Model	S2 450	S2 500	S2 600	
Ventilator Type (AS/NZS 4740:2000 cl 1.5)	Type 4 – Rotating Wind-Driven Roof Ventilator			
Ventilator Performance Class (AS/NZS 4740:2000 Table 1.2)				
Effective Aerodynamic Area, EAA	0.108 m ²	0.137 m ²	0.165 m ²	
Discharge Coefficient, C _d	0.764 - Class 1	0.780 - Class 1	0.639 - Class 2	
Flow Coefficient, C _f	0.30 - Class 3	0.31 - Class 3	0.24 - Class 4	
Nominal Performance* (m ³ /h)				
0 m/s	921 m³/h	1169 m³/h	1408 m ³ /h	
3 m/s	988 m³/h	1259 m³/h	1475 m³/h	
6 m/s	1165 m³/h	1497 m³/h	1660 m³/h	

^{*}In accordance to AS/NZS 4740:2000 nominal performance parameters where h=6m, $\Delta T=14^{\circ}C$, $T=20^{\circ}C$

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