

Hurricane® S2 Turbine Ventilator

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

Issue A

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

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.
- 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.

Limitations of Use

- 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 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 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.
- IMPORTANT Do Not Modify This Product: Performance and safety are only achieved by the product or configuration listed in this PTS.

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) – 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 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.
- This product is available in a range of sizes to suit different building volumes 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

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**

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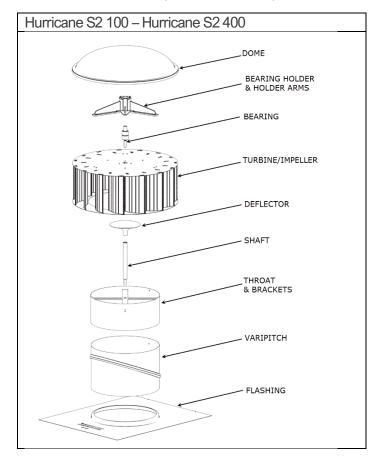


Hurricane® S2 Turbine Ventilator

Applicable Product Codes (SKU)

Hurricane 100mm	Hurricane 150mm	Hurricane 300mm	Hurricane 400mm
Mill Finished	Mill Finished	Mill Finished	Mill Finished
61452	61478	61504	61530
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 (AS/NZS 4740:2000 Table 1.2)					
Effective Aerodynamic Area, EAA	0.004 m ²	0.011 m ²	0.044 m ²	0.078 m ²	
Discharge Coefficient, Cd	0.6 - Class 2	0.67 - Class 2	0.71 - Class 1	0.7 - Class 1	
Flow Coefficient, C _f	0.26 - Class 4	0.28 - Class 4	0.31 - Class 3	0.24 - Class 4	
Nominal Performance* (m ³ /hr)					
0 m/s	31 m³/hr	97 m³/hr	376 m ³ /hr	669 m³/hr	
3 m/s	32 m³/hr	103 m³/hr	404 m ³ /hr	699 m³/hr	
6 m/s	37 m³/hr	119 m ³ /hr	478 m ³ /hr	783 m³/hr	

*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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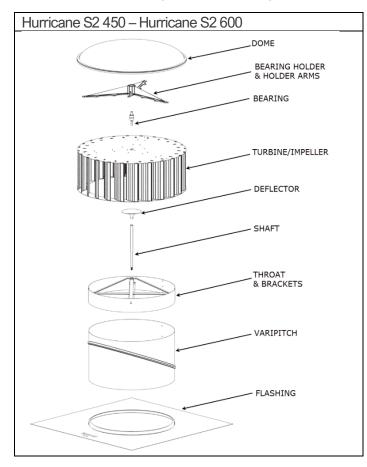


Hurricane® S2 Turbine Ventilator

Applicable Product Codes (SKU)

Hurricane 450mm	Hurricane 500mm	Hurricane 600mm
Mill Finished	Mill Finished	Mill Finished
61556	61582	61608
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)	e (AS/NZS 4740:2000 Type 4 – Rotating Wind-Driven Roof Ventilator			
Ventilator Performance Class (AS/NZS 4740:2000 Table 1.2)				
Effective Aerodynamic Area, EAA	0.109 m ²	0.128 m ²	0.139 m ²	
Discharge Coefficient, Cd	0.77 - Class 1	0.73 - Class 1	0.54 - Class 2	
Flow Coefficient, C _f	0.22 - Class 4	0.22 - Class 4	0.18 - Class 4	
Nominal Performance* (m ³ /hr)				
0 m/s	933 m³/hr	1090 m ³ /hr	1189 m³/hr	
3 m/s	969 m³/hr	1132 m³/hr	1220 m³/hr	
6 m/s	1068 m³/hr	1248 m³/hr	1307 m³/hr	

*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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