

Hurricane® Fire Rated (FR) Turbine Ventilator

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

Issue **A**

Product Type & Application

The Bradford Hurricane® Fire Rated (FR) is a fire rated wind-driven turbine ventilator designed to provide continuous ventilation and smoke release capability in the event of a fire for non-BAL residential (Class 1) and commercial roofs (Class 2 to 9).

Compliance with the NCC

Complies with Section 4.8 of AS1668.1:1998 The use of ventilation and air-conditioning in building Part 1: Fire and smoke control in multicompartment buildings.

Evidence of Suitability

CSIRO Report FSZ 1079 – Fire Test on A Roof Vent (AS/NZS 1668.1:1998 The use of ventilation and air-conditioning in buildings - Section 4.8 Smoke – Spill Fan)

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.

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

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.

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 fire-rated ventilation product, always refer to the installation guidance provided with the product prior to installation.
- 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® FR 900	≥ 0.9m ²

- 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.

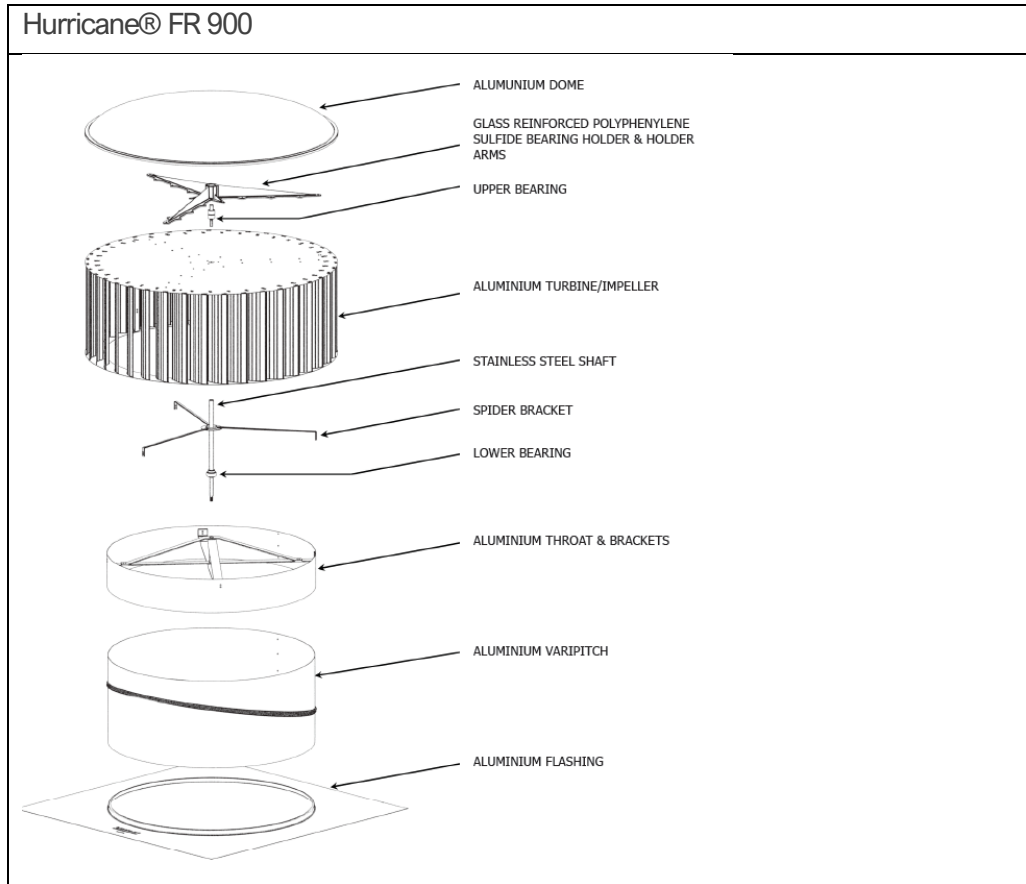
For general installation guidance refer to the product installation guide at www.bradfordventilation.com.au

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Applicable Product Codes (SKU)

Hurricane® 900mm	
Mill Finished 61929	Custom 6930

Product Specifications (in exploded view)



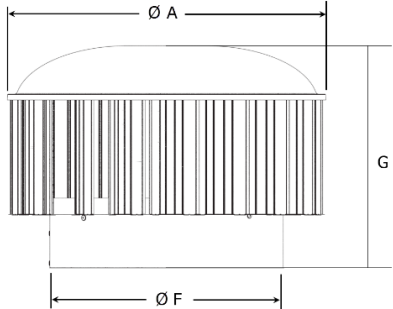
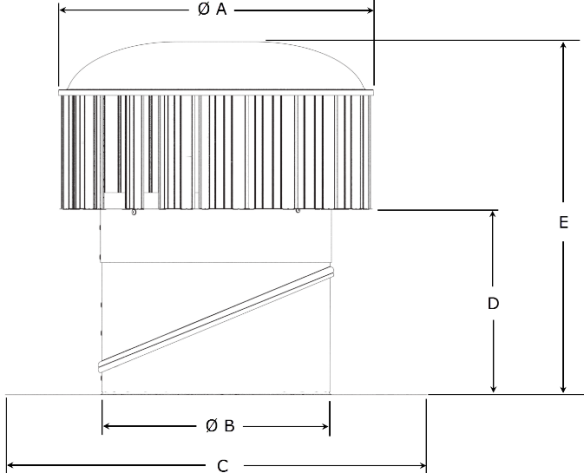
Product Information Summary Hurricane® FR 900

Ventilator Range	Hurricane	
Ventilator Model	FR 900	
Ventilator Type (AS/NZS 4740:2000 cl 1.5)		
Ventilator Performance Class (AS/NZS 4740:2000 Table 1.2)		
Rain Resistance	50 m/s No Water - Class A	
Effective Aerodynamic Area, EAA	0.374 m ²	
Discharge Coefficient, C _d	0.63 - Class 2	
Flow Coefficient, C _f	0.17 - Class 4	
Wind Loading	57m/s - Level 1	
Nominal Performance* (m ³ /hr)		
	0 m/s	3194 m ³ /hr
	3 m/s	3267 m ³ /hr
	6 m/s	3477 m ³ /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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Product Dimensions (in mm)

Top					Turbine							
												
Model	Dimension (mm)			Weight (kg)	Model	Dimension (mm)			Weight (kg)	Roof Slope Range		
	ØA	ØF	G		ØA	ØB	C	D	E			
H900	1096	897	643	18.1	H900	1096	891	1200 x 1200	421	936	24.1	0° - 22.5°