



Available in supply air only



DESCRIPTION

The heavy duty New Generation Series with bushfire code compliance, has been developed for use in free outlet or ducted installations. These supply air axial roof units feature a low profile and comply with BAL-LOW to BAL-40 of the Australian Standard AS3959:2018 Construction buildings in bush fire prone areas.

There are 8 sizes in the range extending from 315 to 1000mm diameter.

Typical Applications

Ideal for supplying fresh air to an air handling unit or to an air conditioning system. Also suitable where make-up air or positive pressure is required in the ventilated space.

Features

- Robust, heavy duty galvanised steel construction.
- High quality bronze mesh provides protection from burning embers.
- Adjustable pitch impellers provide performances to suit a wide range of applications
- 2-speed motors can be supplied.
- Can be used for ducted applications.
- Wide choice of speeds available.
- Can be speed controlled using variable speed drives.
- Can be mounted at angles up to 30°.
- Compliant to AS3959:2018 up to and including BAL-40.

Construction

Cowls are of galvanised steel.

Bronze mesh with a maximum of 2mm aperture fitted. Impeller blades can be GRP, aluminium, nylon or anti-static to suit the application. GRP is standard.

Motors

Type - squirrel cage induction motor

Electricity supply - motors to suit a wide range of voltages and frequencies can be supplied

Bearing - sealed-for life-ball

Speed-controllable using variable speed drives

See pages O-3/4 for details on these motors

Motors with 2-speed windings, or to meet Ex d, Ex e, Ex nA and Ex tD Standards, can be supplied.

When fans are required for non-standard air applications this must be nominated at the time of enquiry.

Internal Thermal Protection

Thermistors can be provided on all motors except when Standards specifically exclude their use.

Testing

Air flow tests to BS848:Part 1, 1980

Noise tests to BS848:Part 2, 1985

Wiring Diagram

See pages N-6/7, diagrams DD 1, 2, 3, 8.

Special Note

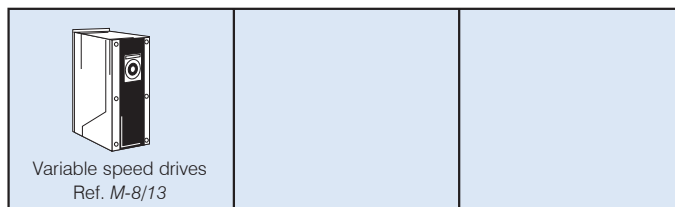
Sites located in Bushfire Prone Areas are required to undergo a Bushfire Attack Level (BAL) assessment that will determine a building's potential exposure to ember attack, radiant heat and direct flame contact in accordance with AS3959-2018 Construction of buildings in bushfire-prone areas.

This standard specifies for BAL levels up to and including BAL-40 that roof ventilation openings, such as gable and roof vents, shall be fitted with ember guards made of non-combustible material or a mesh or perforated sheet with maximum aperture of 2mm, made from corrosion-resistant steel or bronze.

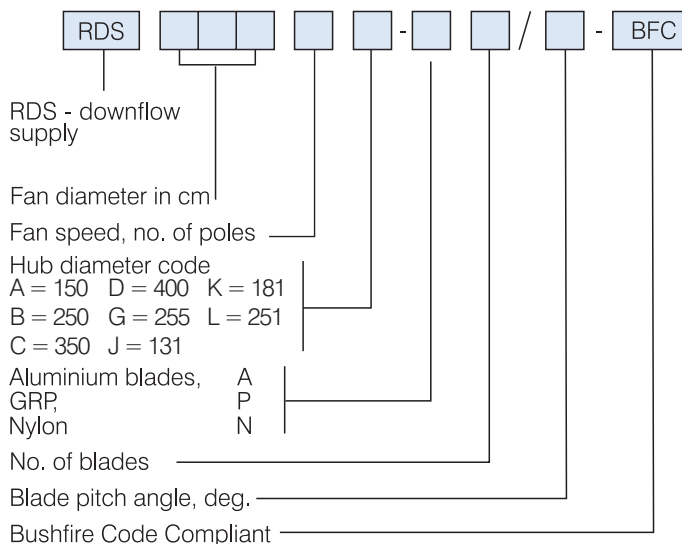
Selections

The quick select envelope performance curves shown on pages D-18/19 give a guide to fan size, noise level and speed. Accurate selections, including comprehensive noise data, can be obtained from your local Fantech office or from the Fans by Fantech Product Selection Program. Refer to Fantech for performances at speeds other than shown.

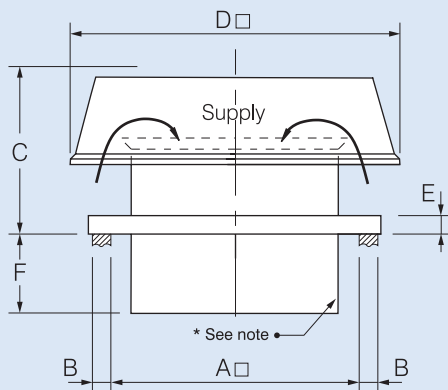
ANCILLARY EQUIPMENT



HOW TO ORDER



DIMENSIONS



Model RDS...-BFC	Fan Speed rev/sec	Max. Motor kW	Dimensions, mm					
			A□	B	C	D□	E	F
0314	24	0.37	400	50	380	670	80	285
0316	16	0.37						
0404	24	0.55	510	50	430	770	80	245
0406	16	0.37						
0504	24	1.50	670	50	530	890	80	365
0506	16	0.37						
0564	24	2.2	670	50	530	890	80	365
0566	16	0.75						
0634	24	4.0						
0636	16	1.1	780	100	580	1180	80	345
0638	12	0.55						
0714	24	5.5						
0716	16	2.20	780	100	580	1180	80	345
0718	12	0.75						
804	24	11.0						
806	26	4.0	880	100	685	1395	85	545
808	12	1.5						
1004	24	30.0						
1006	16	15.0	1080	100	725	1640	85	740
1008	12	4.0						

* If right angle flanged connection is required this is available as an optional extra.
Amperages for motors can be obtained at time of order.

SUGGESTED SPECIFICATION

The axial roof units shall be of the New Generation Series with bushfire code compliance as designed and manufactured by Fantech Pty Ltd. The cowl shall be of the downflow type and manufactured from galvanised steel.

The axial impellers shall be adjustable pitch manufactured and supplied with blades of GRP, aluminium, nylon or anti-static material to suit the application.

The unit base shall be of galvanised steel and shall incorporate a tube that fully encompasses the motor and impeller. In addition, the intake end of the casing shall have an inlet cone to minimise entry losses to the fan.

They shall comply with BAL-LOW to BAL-40 of the Australian Standard AS3959: 2018 Construction of buildings in bush fire areas.

Ember protection mesh shall be of bronze or steel with openings a maximum of 2mm.

All data is based on tests to BS848:Part 1, 1980 for air flow and BS848:Part 2, 1985 for noise.



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