NEW GENERATION SUPPLY BUSHFIRE CODE COMPLIANT

DESCRIPTION
The heavy duty New Generation Series with bushfire code compliance, has been developed for use in free intake 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 AS3959:2009 Construction buildings in bush fire prone areas.

There are 6 sizes in the range extending from 315 to 710mm 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 AS3959:2009 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 D-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
Construction of buildings in bushfire prone areas
AS3959:2009, clause 6.6.5(b) “Roof penetrations” states:
Openings in ventilated roof lights, roof ventilators or vent pipes shall be fitted with ember guards made from a mesh or perforated sheet with a maximum aperture of 2mm, made of corrosion-resistant steel, bronze or aluminium.

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
NEW GENERATION SERIES - BUSHFIRE CODE COMPLIANT

DIMENSIONS

<table>
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<tr>
<th>Model RDS...-BFC</th>
<th>Fan Speed rev/sec</th>
<th>Max. Motor kW</th>
<th>Dimensions, mm</th>
<th>App. vol. RD.. m²</th>
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* 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.

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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