**INTRODUCTION**

FUMAX axial flow fans are manufactured in diameters ranging from 400mm to 1250mm and incorporate aerofoil sections, aluminium bladed impellers mounted directly onto the motor shaft which is in the air stream. FUMAX fans are certified in accordance with BS EN 12101-3: 2002 Part 3 for 300°C for 120 minutes and carry the CE marking declaring that the fans meet all the appropriate provisions of the relevant legislation implementing certain European Directives.

**APPLICATIONS**

The primary application of FUMAX fans is smoke control in the building services industry. FUMAX fans can also be used simultaneously for normal ventilation applications.

**SIZES**

The FUMAX range is available in the following diameters: 400, 500, 600, 710, 800, 900, 1000 and 1250. The sizes vary in accordance with the preferred increments covered in ISO 4371-1973 (E) F20.

**IMPELLERS**

Die-cast aluminium alloy blades of aerofoil section clamped in split steel hubs (FUMAX 1250 H impellers have split aluminium cast hubs). All blades are x-rayed and dowelled in position with a steel spring pin.

**BALANCING**

Impellers are balanced to ISO 1940 grade G6.3.

**CASINGS**

Casings are hot-dip galvanized to ISO 4161 and cover the impeller and motor assemblies. External terminal boxes complete with terminal blocks are provided on the casings.

**FLANGE DIMENSIONS AND DRILLINGS**

Flange dimensions and drillings are in accordance with BS 6339.

**MOTORS**

Motors are certified in accordance with BS EN 12101-3: 2002. Voltage is 380-420V three phase, 50Hz. Enclosure is IP55 with Class H insulation.

**DIRECTION OF AIRFLOW**

Forms B, BD and BU are standard arrangements for direct drive fans, having motors mounted downstream of the fans impellers.

Forms A, AD and AU are non-standard arrangements but can also be used. Mechanical details and bearing selections on all FUMAX fans are suitable for any of these attitudes. However, impellers require changing from Form A to Form B running.

**TEMPERATURE LIMITATIONS**

The FUMAX range of fans has been tested in accordance with BS EN 12101-3: 2002 Part 3 for 300°C for 120 minutes and are classified according to the following classes.

<table>
<thead>
<tr>
<th>Class</th>
<th>Temperature [°C]</th>
<th>Minimum functioning period [minutes]</th>
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<tbody>
<tr>
<td>F200</td>
<td>200</td>
<td>120</td>
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<td>F300</td>
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</table>

FUMAX fans were successfully tested and certified for 300°C for 120 minutes by BSRB which exceeds classes F200 and F300.

FUMAX fans can also operate continuously at normal temperatures (5°C to 50°C) for ventilating applications.

**PERFORMANCE AND SOUND DATA**

Selection and sound data is generally in accordance with MAJAX-2 brochures.

**OPTIONAL FEATURES**

Optional features include certified mounting feet, counter flanges, wire screens, conical inlets and high temperature flexible connections.
### Fan Size A

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All dimensions in millimeters, fan mass in kilograms.

### Typical Electrical Connections

#### Delta (Δ)
- Frame 63: 100V, 208V
- Frame 112M: 355V, 480V

#### Star (Y)
- Frame 63: 100V, 208V
- Frame 112M: 355V, 480V

#### Slow Speed (Δ)
- Frame 63: 100V, 208V
- Frame 112M: 355V, 480V

#### High Speed (YY)
- Frame 63: 100V, 208V
- Frame 112M: 355V, 480V

Note: Can be used for Star Delta starters or direct on line.

Note: Can be used direct on line.

All information subject to change.