

Eco Radial Flowgrid

High Quality, Accurate & Competitively Priced Aluminium Flowgrid - Made in the UK

The NEW Eco Radial Flowgrid has been developed to offer a low cost alternative to our existing range of Stainless Steel flowgrids. The enhanced, lightweight aluminium design has reduced lead times and air blockage, making it ideal for HVAC industry, providing maximum accuracy in airflow measurement and control applications.

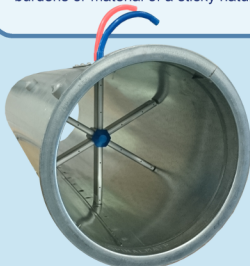
An averaged signal is generated for both the total and sub-static pressures along the length of each leg to generate a differential pressure signal that directly relates to volume flow. Providing accurate and reliable outputs at a highly competitive price where other flow measuring devices might be found to be unsatisfactory.

Features

- Brand new economically priced product
- Lightweight construction primarily constructed from anodised aluminium components with stainless steel and glass filled nylon inserts
- Designed and manufactured to comply with EN ISO 3966:2008 by utilising Log Linear positioning of the pressure sensing holes
- Supplied with an estimated performance curve showing 'Volume Flow Rate vs. Grid Signal Pressure' and 'Magnification Factor vs. Duct Mean Velocity'. This curve should prove to be within $\pm 5\%$ of actual onsite Calibration performance.
- An uncertainty of $\pm 2.0\%$ can be obtained with onsite calibration
- Suitable for use up to temperatures of up to 80°C continuous use
- Virtually maintenance free
- Low blockage rate
- Available off the shelf to suit duct sizes with internal diameters of 150, 160, 200, 250, 300, 315, 400 & 560mm.
- Alternative sizes to suit duct work from 150mm to 600mm internal diameter are available upon request with short lead times.
- Supplied with full installation kit and instructions allowing for easy installation
- Can be supplied as standalone systems, within flanged ducting, with or without aluminium honeycomb flow straightener
- Available with a suitably scaled electronic pressure transmitter

Applications

- Front end flow sensing device designed for accurate control and measurement of air in the HVAC and other industries.
- To warn of deviation of flow rates from a specified range when using a manometer fitted with an alarm
- With the addition of an electronic transmitter it can be used to directly control a fan or damper or feed into a control or BMS system
- To display differential pressure on a simple fluid manometer. This will give a visual indication of changes in volume flow within the duct.
- It can be used in conjunction with the calibration curve to display accurate volume flow rates
- Not suitable in conditions of high humidity or where the airstream contains high dust burdens or material of a sticky nature.



Specification

Complies with Standard	EN ISO 3966:2008
Sizes Available	150 – 600mm
Stock Sizes	150, 160, 200, 250, 300, 315, 400 & 560mm
Uncertainty of Flow Measurement	$\pm 5\%$ from derived curve
Uncertainty of Flow Measurement	$\pm 2\%$ from onsite calibration
Temperature Range	0 - 80°C
Materials	Anodised aluminium, Stainless Steel & Glass Filled Nylon Inserts
Extras Available	Ducting, Flanges, Scaled Transmitter, Aluminium Flow Straightener