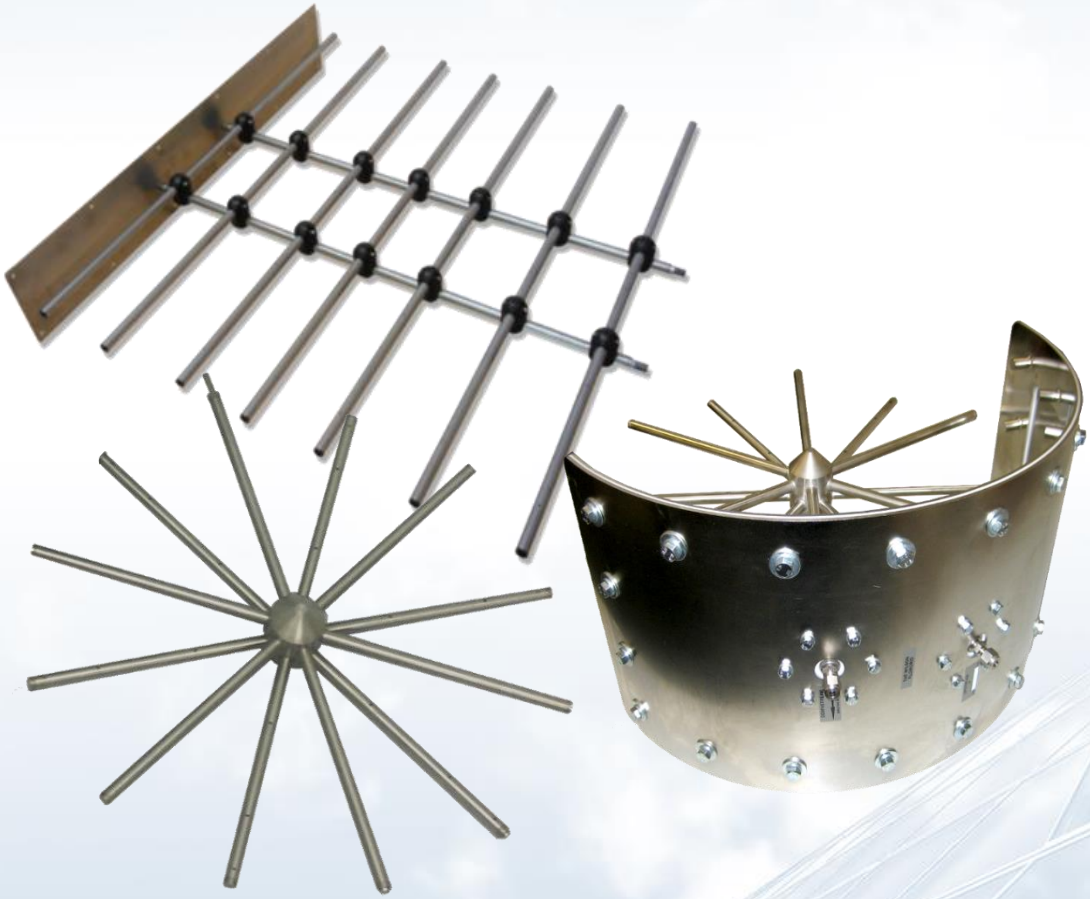
Sensing Precision

Air Measurement Specialists

Product Datasheet

Wilson Flowgrid



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Overview

Wilson Flowgrids are the most accurate flowgrid type within the product range. They are supplied to suit rectangular or round ducts. Wilson Flowgrids comprise of a number of tubes that span the whole duct area. Each tube has a number of flow sensing positions some of which face upstream and some downstream, hence the generation of the pressure differential. It is this vast array of sensing positions spanning the whole duct area that makes the Wilson Flowgrid the most accurate within the flowgrid range. By design all Wilson Flowgrids generate “enhanced” differential pressure signals.

Rectangular flowgrids are fabricated using two horizontal steel tubes and a number of vertical pressure sensing tubes which are bound together with Acetal plastic joints. The vertical tubes are positioned so that the pressure sensing ports in the tubes alternately face upstream and downstream. The two horizontal tubes then generate the averaged signal for both the upstream and downstream pressures, thus producing the differential pressure.

Radial flowgrids work in exactly the same way as rectangular flowgrids with the main difference between the two types being the method of fabrication. Unlike rectangular Wilson Flowgrids, radial Flowgrids are a fully welded stainless-steel construction. There are no plastic parts and so by default, are all high temperature graded, and compatible with some, but not all, chemical and harsh environments.

Applications

- In Duct Air Velocity Measurement
- In Duct Air Volume Flow Measurement
- BMS Primary Control Systems
- In process control for industries like pharmaceutical and food manufacturing

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Specifications

Standards	Complies with relevant BS, ISO & EPA Sections
Variations	Standard, High Temperature & Containment suitable systems
Sizes	
Rectangular	Up to 3m²
Circular	Up to 2.5m Ø
Uncertainty of Flow Measurement	±2% or better from onsite calibration
Temperature Range	
Standard System	80°C Max
High Temp System	850°C Max
Materials	
Standard System	Stainless Steel with Acetal Plastic Joints
High Temp System	Fully Stainless Steel
Special Systems	Polypropylene for harsh chemical environments. Grids designed for high temperature applications.
Available Extras	Ducting, Flanges, Scaled Transmitter, Flow Straighteners

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