



# Flow Grids

## For Accurate In-Duct Volume Flow Measurements

Kanomax flow grids produce averaged total and sub-static pressures signals to generate an enhanced velocity pressure signal, outside the duct wall, that directly relates to the volume flow, providing accurate and reliable outputs where other flow measuring devices are found to be unsatisfactory. Works directly with Micro-manometers, pressure transducers, Magnahelic gauges, and pressure activated alarm switches. These are ideal for ventilation monitoring for LEEDS and many other facility management monitoring applications.

### Features & Benefits

- Sizes from 4.0" (100mm) diameter to 10 ft.(3.0 meters) square
- Uncertainty of flow measurement is within +/- 1.0%
- High temperature systems up to 850°C are available
- Stainless steel grade 321 tube supplied as standard, other grades of steel or alloys are available upon request



### ■ Standard Sizes

#### Rectangular Grids

Type A 6.4mm (1/4") diameter tube	Manifold length (mm)	100 to 450
	Pressure Tube length (mm)	150 to 450
Type B 12.7mm (1/2") diameter tube	Manifold length (mm)	250 to 650
	Pressure Tube length (mm)	350 to 1200
Type C 25.4mm (1") diameter tube	Manifold length (mm)	750 to 1000
	Pressure Tube length (mm)	800 to 2000

#### Radial Grids

Type A 6.4mm (1/4") diameter tube	Diameter (mm)	100 to 500
Type B 12.7mm (1/2") diameter tube	Diameter (mm)	500 to 1100
Type C 25.4mm (1") diameter tube	Diameter (mm)	1100 to 2500



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The Ultimate Measurements

# X Flow Grids

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X flowgrids will give useful and reliable readings in a wide variety of in-duct locations often where other flow rate measuring devices are found to be unsatisfactory or difficult to install. The low cost design consists of two tubes mounted diagonally through the cross section of the duct. They generate an averaged signal for both the total and sub-static (X) or static (UX) pressure along the length of each tube to generate a differential pressure signal that directly relates to volume flow.

### Features & Benefits

- Economical method of measuring volume flow within a duct
- Uncertainty of volume or mass flow measurement within +/- 5.0%
- Stainless steel grade 321 tube supplied as standard
- High temperature systems up to 850°C (continuous) available
- Differential pressure correlation/correction factor: UX version: 1.0 correlation; X version: 2.0 amplified correlation



#### Specifications

Model	MX8	UX8	MX16	UX16
Air Velocity Ranges	295.2 to 5904 ft/min (1.5 to 30 m/s)			
Accuracy	+/- 5%			
Maximum Temperature	176°F (80°C)			
Diameter of Tubes	5/16" (8mm)		5/8" (16mm)	
Maximum Duct Diagonal	28.1" (715mm)		60.4" (1534mm)	
Maximum Dust Diameter	26.7" (680mm)		59.4" (1510mm)	
Weight	1 lbs (454 g)		3 lbs (1361 g)	



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Kanomax USA, Inc.  
P.O. Box 372  
219 US Hwy 206, Andover, NJ 07821 U.S.A.  
TEL: 1-800-247-8887 (USA) / 1-973-786-6386  
FAX: 1-973-786-7586  
E-mail: [info@kanomax-usa.com](mailto:info@kanomax-usa.com)  
URL: [www.kanomax-usa.com](http://www.kanomax-usa.com)

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