

Indoor Air Quality Filtration System

Applications

The Indoor Air Quality Filtration System combines particulate and gas filters to remove pollutants prior to entering residences and commercial buildings through mechanical ventilation and heat recovery systems.



The Indoor Air Quality Filtration System is designed to bring outdoor air pollutant levels within the guideline exposure limits as set out in the World Health Organisation Air Quality Guidelines and the CAFÉ Directive prior to entering an occupied space.

Particulates, PM10, PM2.5

The Indoor Air Quality Filtration System can house up to two particulate filters. Panel filters of Grade G4 to EN779 having an arrestance above 90% making it suitable for the removal of PM10 Particulates. An additional particulate filter of grade F7 to EN779 can be included to further reduce smaller particles (PM2.5) to an efficiency between 70 and 80% at 0.4um.

Pollutant Gases, NO2, SO2, O3, VOC

The gas stage filters in the Indoor Air Quality Filtration System are designed to achieve a minimum contact time suitable for the removal of pollutant gases at the rated air flow. A specially formulated activated carbon and chemical mix acts upon pollutant concentrations common in dirty city air, reducing them below guidelines set by current legislation.

Construction

The Indoor Air Quality Filtration System is manufactured in a pop rivet construction from 1.2mm Galvanised Steel together with suitable sealing for particulate and gas filters. Access is available on both sides via bolted lift off panels.

Various transformation modules including rectangle and round are available to suit ductwork systems for both domestic and commercial duct work.

Technical

Unit	Maximum Airflow	Dimensions (mm)			PM10 + GF	PM10 + GF+ PM2.5	Approx. Unit Weight
		(exlc. Spigot Transformations)					
CB 50	0.05m ³ /s	880L	310W	220H	45Pa	100Pa	50kg
CB 100	0.11m ³ /s	880L	620W	220H	45Pa	100Pa	70kg
CB 200	0.22m ³ /s	880L	620W	410H	45Pa	100Pa	95kg
CB 300	0.33m ³ /s	880L	620W	600H	45Pa	100Pa	120kg