



COSMOS
Air Distribution Products

Powered By **Technology**
Driven By **Innovation**

Air Distribution Products



Lab Air Distribution



www.cosmosadp.com

SYAMANTAK INDUSTRIES PVT LTD.

A Wide Range of High Quality Air Distribution Products.

Lab Air Distribution



VAV Damper



Cosmos VAV Damper, features a primary inlet with an integral damper and a discharge plenum. It is lined with insulation to provide sound absorption and thermal resistance, It is designed to meet the needs of today's VAV systems.

Features

- High-speed, adaptive control algorithm for precise and stable control
- Control time ≤ 3 sec for a 90° angle
- Suitable for supply air and exhaust air volume flow control in laboratories and clean rooms
- Entire system data is saved despite of mains voltage failure, safe in the FLASH MEMORY
- Free programming of system data and retrieval of all actual values
- Monitoring of the customer ventilation system by integrated monitoring of the supply air / exhaust air set point that is to be regulated
- Closed loop
- Analogue actual value output O(2) ... 10VDC
- Rapid, stable, precise control through direct actuation of the actuator.
- Control parameters are adaptively optimized online through BACnet MSTP protocol.
- Response time and regulation of the exhaust air volume flow ≤ 3 sec

CAV Damper



COSMOS make Single duct air terminals are designed to maintain the constant flow of conditioned air in single duct air distribution system. Cosmos CAV Terminal units are designed and engineered for reliability, consistency and optimal performance, provides multiple benefits for individual comfort while ensuring savings in energy bills. Specially designed rectangular inlet discharge CAV units for exposed ducting to suit various ducting configuration. All COSMOS CAV's modules facilitate seamless installation and ensure rated performance.

Features

- Precisely design flow sensor grid
- Heavy duty 20 gauge GI casing construction.
- Heavy duty 18 gauge GI damper frame construction.
- Aerofoil opposed blade construction with external linkage operation.
- Steel 12mm square damper shaft with bearing. Shaft features a position indicator for easy identification of damper angle.
- 25mm flange connection
- Internally line casing utilizing opencell elastomeric nitrile foam rubber, fiber free, super silent & microban resistant.

Air Flow Measuring Station



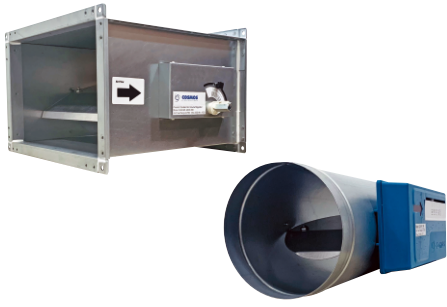
The AFMS is an accurate airflow measuring station and is furnished with a properly sized pressure transducer that outputs a signal proportional to CFM. It is designed to maintain a constant parallel airflow pattern over the static sensing ports for more accurate, steady signals under all duct conditions.

The airflow measuring station utilizes multiple averaging sensors for total (velocity) pressure and static pressure measurements. The sensors are distributed across the flow stream to conform to the industry standard rule for equal area averaging (the standard pitot traverse.) The Cosmos make AFMS (Air Flow Measurement Station) has been developed for use in duct systems having a highly turbulent condition at the point of measurement. The airflow averaging element generates a differential (velocity) pressure signal similar to the orifice, venture

Features

- Standard construction includes a galvanized casing, aluminium flow sensor and galvanized airflow straightener
- Factory mounted and pre piped in a flanged duct section (casing).
- Multiple total and static pressure sensing ports along the length of the element.
- Low signal to noise ratio.

Constant Air Volume Regulator



The Constant air volume regulator is an air-engineering device that maintains constant volume of air flow within fluctuating pressure range without any external energy source. The controller starts its operation according to its nominal size and the regulated amount of air when the minimum pressure difference between the front and rear part of the controller reaches 35 to 55 pa. The control of larger air volumes requires a higher difference in pressure. Using the constant air flow controller, HVAC designers have a choice at their conveyance that needs no energy supply while providing for the different factors designed.

Features

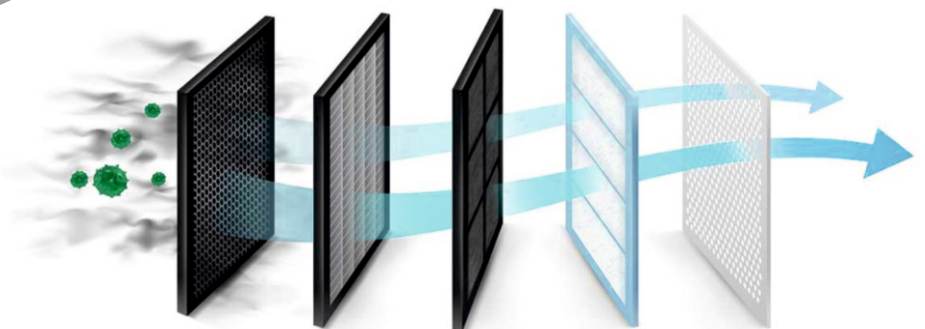
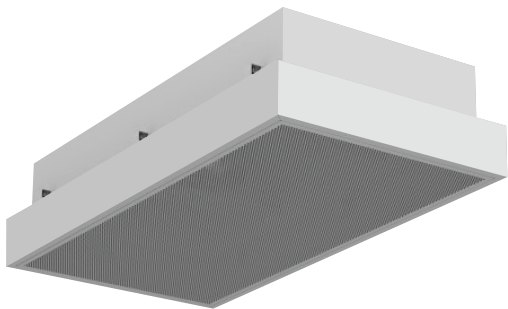
- Specially designed variable force spring mechanism for automatic air flow control.
- Wide range of air volume adjustment as per size.
- Low leakage as connection with rubber seal.
- Easy Installation & Maintenance Free

Hepa Terminal Box and Fan Filter Units



Features

- Higher levels of air cleanliness as per ISO standards.
- Low Leakage Terminal Units
- Higher efficiency and arrangement in HEPA Filters
- Filter media tested as per En1822
- Every filter shipped tested as per MIL-STD-16890



Manufactured By

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