



**COSMOS**  
Air Distribution Products

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

# Air Distribution Products Product Profile

## A Wide Range of High Quality Air Distribution Products.

- Grilles and Registers
- Under Floor Air Distribution
- Diffusers
- Nozzles
- Louvers
- Life Safety Dampers
- VAV Terminal Units
- Volume Control Dampers
- Inline Fans
- Sound Attenuators
- Lab Air Distribution
- Air Filtration & HEPA Terminal Units
- Indoor Air Quality



Quality  
Products



Best  
Performance



Superb  
Durability



On Time  
Delivery

**SYAMANTAK INDUSTRIES PVT LTD.**

An ISO Certified Company

For 3 Decades, COSMOS manufactures for HVAC industry, introducing innovative and efficient Air Distribution Solutions and building a trusted reputation for exceptional performance and reliability. We have streamlined our organization to enhance our customer experience, providing seamless service, while continuing to drive innovation with a complete portfolio of best-in-class products you can expect from an industry leader.

## Creative Engineering Designs

transforms Concept to Comfort and Elegance

crafts us **Industry Experts**

Our **Expertise** help us to achieve **Quality output** using our High-Tech Infrastructure, Technology, Knowledge and Experience in this business crafts us **Industry Experts**.



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## Profile

Syamantak Industries Pvt. Ltd. began its journey in 1994 with the brand name Cosmos in the field of Air Distribution Products with Quality Products. It further found wings in 2004 with birth of "COSMOS Group of Companies" with emergence of other vertical all in the field of Heat Ventilation and Air Conditioning. Today after 3 Decades of excellence, the Cosmos Group of Companies has been delivering on its promise of giving World Class Technologically savvy products to Industry.

The group has diversified into Three Industries :

- Syamantak Industries Pvt. Ltd.  
( A leading manufacturer of Air Distribution Products under brand "COSMOS" )
- Space HVAC Systems Pvt. Ltd.  
( A leading System Integrator in H.V.A.C. System Design / Planning / Execution & After Sales)
- Savitru Aircon Pvt.Ltd.  
( Indian partner for various international brands working in field of H.V.A.C. )

## Syamantak Industries Pvt. Ltd.

Syamantak Industries Pvt. Ltd. manufacture "Cosmos" Brand Air Distribution Products. Cosmos enjoys being a leading brand in INDIA and have now forayed WORLD wide also. It has a wide product range of Air Distribution Products. So preferred by HVAC consultants across INDIA and all leading system integrators for various projects.

## Our Strengths

- Two modern manufacturing facilities.
- One manufacturing facility is for Aluminum products (Grille, Diffuser, Registers & Louvers etc.)
- The other for sheet metal products (VAV Terminal Units, Dampers & Sound Attenuators etc.)
- Both the factories are equipped with modern machines like : CNC Turret punching presses, CNC Laser-cutting, Press Breaks, Clinching machines, Laser Welding and Welding (CMT) Robot.
- Sound reverberation room for noise testing. It is supported by IISc, Bengaluru.
- Wind tunnel for dynamic calibration & testing of VAVs. All the VAV's and CAV's supplied are dynamically calibrated and tested at factory before dispatch on site.
- Test Facility for HEPA Filters ( Hot DOP and Cold DOP )
- Manufacturing Team strength : 200 +
- The sales are handled by Head Office in Mumbai. Distributors in South & East Zones of INDIA. Overseas distributors at Singapore and Thailand.
- **Quality Assured by ISO 9001 : 2015**

## Segments We have Expertise in

- Air Distribution
- Air Control
- Air Born Noise Control
- Temperature Control
- Pressure Control
- Fire & Smoke Control
- Air Flow Measurement
- Air Flow Filtration
- Indoor Air Quality
- LAB Control



## Our Works



### Factory Unit 1 - Tarapur, Boisar, Maharashtra

Equipped with Reverberation Room for Acoustic Testing

Factory for Sheet Metal Products  
VAV's, Dampers, Attenuator, Plenums,  
Air Control Devices & Filters



### Factory Unit 2 - Tarapur, Boisar, Maharashtra

Equipped with Eco-Friendly Solar Panels for Sustainable Power

Factory for Aluminium Products.  
Grilles, Diffusers, Louvers & Nozzles



### Factory Unit 3 - Tarapur, Boisar, Maharashtra

New Factory at Tarapur for New Product Line  
and High Tech Fine Powder Coating.



### Factory Unit 4 - South Region ( Hyderabad )

Factory for Aluminium & Sheet Metal Product  
Assembly.

## High-Tech Infrastructure

CNC Laser, CNC Turret Punching Press, CNC Press Break, Welding (CMT) Robot & Laser Welding



CNC Turret Punching



CNC Press Break



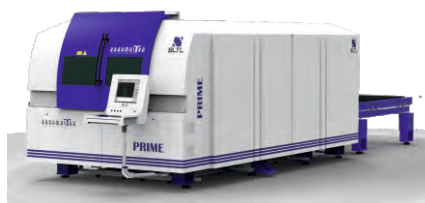
Clinching Machine



Welding Robot



Shearing Machine



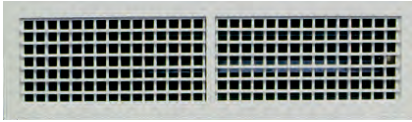
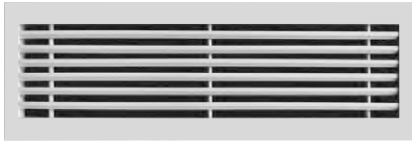
CNC Laser Cutting



Laser Welding



# Grilles & Registers



## Description

COSMOS Grilles and Registers covers a wide range for supply and return air distribution of HVAC systems and are suitable for ceiling, floor, sill and sidewall applications. They are selected for their pleasing continuous, line, architectural appearance and are designed for ventilation outlets and many other applications. COSMOS offers a complete line of Grilles and Registers, including standard Linear supply and return grilles, Adjustable grilles, Combination grilles, Door grilles, Egg Crate Grilles, Floor Grilles and Curved Duct grilles.

## Features

- Standard construction is aluminum extrusion.
- Offering superior construction for high performance and durability.
- Antistatic Powder Coated Finish.



# Under Floor Air Distribution



## Description

COSMOS covers a complete line of products to help your underfloor air distribution projects. We design and engineer our products using state of the art technology to adhere to the highest quality standards, giving you the components you need to implement the ideal UFAD system. COSMOS offers various types of Floor Grilles, Floor Swirl Diffusers and Active Floor Tiles.

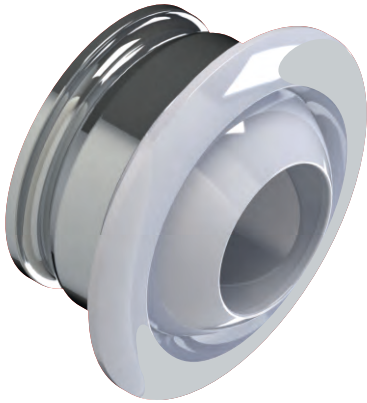
## Features

- Integrated design features enabling tile and linear grille combination for aesthetic continuity.
- Suitable for most flooring system.
- Easy drop-in installation.
- Antistatic Powder Coated Finish.



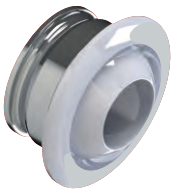
## Description

COSMOS Nozzles are specialist units designed for large areas requiring a targeted throw . So It offers an economical solution to high capacity air distribution applications requiring long throw distances. This nozzles can be effectively applied to large space applications such as shopping malls, auditoriums ,theaters , airports and arenas.



## Features

- It allows selection for a wide range of air volumes with longer throws.
- Units are available as a single or multiple mounted in a panel.
- Antistatic Powder Coated Finish.



Jet Nozzle



Spot Nozzle



Drum Louver



Jet Flow Diffuser



Panel Type Nozzles

# Louvers

## Description

COSMOS louvers are designed for specific applications, like protecting a ventilation from rainfall, sand, storm, or absorbing out unwanted noise. COSMOS louvers offer considerable design flexibility and good protection from rain penetration when applied properly in such climatic conditions. COSMOS louvers offer high free area and low airflow resistance and are generally the most economical option.



## Features

- High grade aluminum construction
- High free area and low airflow resistance
- PU powder coated finish



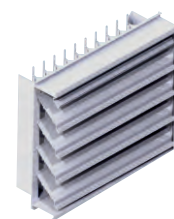
Fresh Air Louver



Weather Resistant Louver



Acoustic Louver

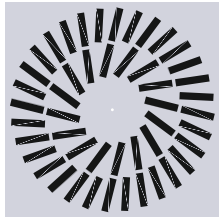


High Performance  
Weather Resistant Louver



Sand Trap Louvers

# Diffusers



## Description

COSMOS Ceiling diffusers are the excellent choice for HVAC system where a high standard of comfort indoor air quality and controlled performance are to be achieved. COSMOS ceiling diffusers are specially designed for ceiling mounting applications. This series covers a full range of ceiling diffusers which include Square Face Cone, Louvered Face, Concentric supply / return, Modular, Perforated, Round and VAV Diffusers.

## Features

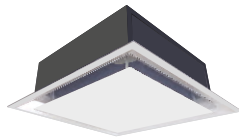
- Clean, smooth appearance, & light-weight with construction of Aluminum Extrusion.
- Suitable for large volumes of air at low sound levels and low pressure drops.
- Antistatic Powder Coated Finish.



Square Louvered Diffuser



Rectangular Louvered Diffuser



Dynamic Diffuser



Architectural Plaque Round Diffuser



Architectural Plaque Square Diffuser



Architectural Swirl Diffuser



Radial Vane Swirl Diffuser



High Ceiling Swirl Diffuser



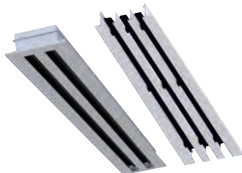
Floor Swirl Diffuser



Step Swirl Diffuser



Linear Diffuser



Linear Slot Diffuser



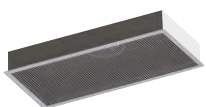
Architectural Slot Diffuser



Techzone Ceiling Diffuser



High Capacity Slot Diffuser



Laminar Flow Diffuser



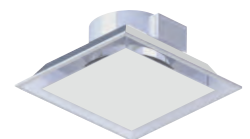
Displacement Diffuser



Round Diffuser



Disc Valve



VAV Diffuser



## Description

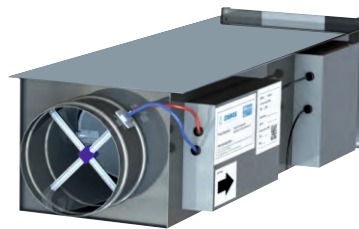
COSMOS make Single duct air terminals are designed to regulate the flow of conditioned air in single duct air distribution system. Cosmos VAV Terminal units is designed and engineered for reliability, consistency and optimal performance and provides multiple benefits for individual comfort while ensuring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

## Features

- Unique shape flow sensor for precise air measurement by creating linear amplified signal with a very low pressure drop & noise level.
- Internally lined casing utilizing open cell elastomeric nitrile foam rubber, fiber free, super silent & microban resistant.
- Dynamically calibrated & tested at the factory for designed air flow rates to ease faster commissioning at site.



Basic Module  
Single Duct VAV



VAV with Heater



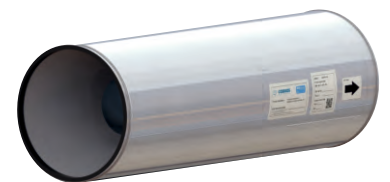
Induction VAV



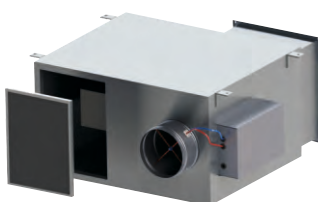
Rectangular  
Single Duct VAV



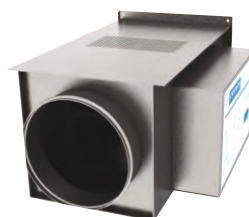
Flat Oval  
Single Duct VAV



Circular  
Single Duct VAV



Fan Powered VAV



Bypass VAV



LAB PID VAV

# Life Safety Dampers



## Description

Passive Fire Protection (PFP) systems contain fire and smoke to predetermined areas of a building, to prevent it from quickly spreading through the rest of the building. COSMOS Life safety dampers are installed in HVAC ducts, partitions and wall penetrations to support the PFP system to protect life and diminish property loss during a life safety event. There are four types of life safety dampers available with COSMOS: motorized fire dampers, fusible link fire dampers, smoke dampers and combination fire-smoke dampers.

## Features

- 180 GSM G.I. Sheet Construction.
- UL certified & tested for 1 ½ Hrs. Fire Resistance Rating as per UL 555
- UL certified & tested for leakage Rating as per UL 555S
- UL listed fusible link for 165°F temperature rating
- CBRI Tested for 2 Hours. Fire Resistance Rating as per UL 555



Motorised Fire Damper



Fusible Link Fire Damper



Smoke Damper



Combination Fire & Smoke Damper

# Volume Control Dampers



## Description

COSMOS Volume control dampers are designed to control airflow volume in low to high pressure and velocity HVAC systems. Manual or Automatic Control Dampers can be used to regulate the airflow, depending on the zone / area requirement thus conserving the energy and to regulate overall comfort of the air conditioned space. Typical applications for the volume control dampers would include volume control of airflow in zoning, intake, exhaust, mixed air applications, air handler units and also economizer systems. Gravity Dampers have been specifically designed for use in air conditioning and ventilation systems. These dampers are used for air intake, exhaust and also used for pressure relief.

## Features

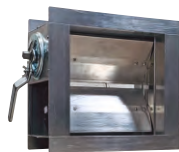
- Frame & blade construction can be galvanized sheet steel, stainless steel or aluminum extrusion to suit the client's specific requirements.
- Aerofoil / 3 'V' groove Blade options as per application.
- Low leakage rating with specially designed blade seals.



GV Series



GA Series



AA Series



Motorised Damper



RVCD Series



BDD Series



PRD Series

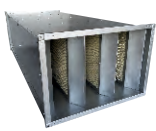
## Description

COSMOS Sound Attenuators are excellent noise control acoustical treatment of Heating Ventilating and Air-Conditioning (HVAC) ductwork designed to reduce transmission of noise through the ductwork, either from equipment into occupied spaces in a building or between occupied spaces. COSMOS Attenuators limits airborne noise with various types of models available i.e. Rectangular Sound Attenuators, Circular Sound Attenuators & Cross Talk Attenuators.



## Features

- Minimum pressure drop and maximum insertion loss due to Aerodynamic splitter shape .
- In-house reverberation room for insertion loss measurements
- Significant attenuation in frequency span form 63 to 8000Hz



RSA Series  
Rectangular



CSA 50  
Circular



CSA 100  
Circular



CSA P  
Circular



CTA Z  
Cross Talk



CTA L  
Cross Talk



CTA U  
Crass Talk

# Lab Air Distribution

## Description

Proper airflow distribution in laboratories is important to laboratory occupants as it helps ensure a healthy, productive and energy efficient environment for research and development. The process of designing specifying, and testing the air distribution systems and components for laboratories is a critical function of the architects, engineers, test and balance firms, and facility commissioning agents. COSMOS offers application oriented solutions for laboratories.



## Features

- Standard Construction includes a Galvanized casing , Aluminum Flow Sensor & Aluminum honeycomb air flow straightener
- Precise air flow measurements
- Low signal to noise ratio



CAV



VAV



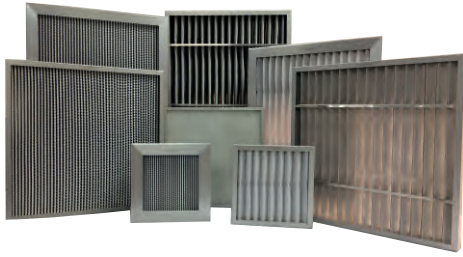
Air Flow Measuring Station



Constant Air Volume Regulator



# Air Filters & Terminal Boxes



## Description

Air Filtration is the technology used most widely to remove particles from an air stream due to its relative ease and flexibility. Filtration usually occurs when expended air is brought back into the HVAC equipment to be conditioned and distributed again. COSMOS Filters & Filter Terminal boxes are designed to provide the highest level of filtration available for commercial and industrial applications. They can widely used in hospitals, clean rooms, pharmaceutical plants, and in hundreds of other systems where clean air is critical in the protection of people, processes, and equipment.

## Features

- Higher efficiency and arrestance
- Specially-designed polyurethane foam bond sealant eliminates leaks
- Filter media tested as per EN1822
- Factory tested efficiency and performance



Box Type  
Pre Filter



Self Supporting Box  
Type Pre Filter



Flange Type  
Pre Filter



Box Type  
Fine Filter



Flange Type  
Fine Filter

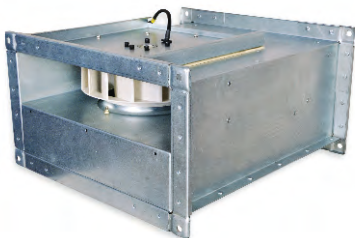


HEPA Filter

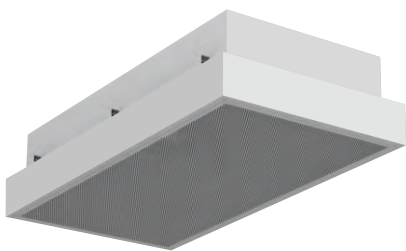


Mini Pleat  
HEPA Filter

# Inline Fans & Fan Filter Units



Rectangular Duct Fan



Fan Filter Unit

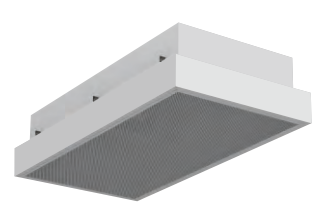
## Description

**Inline Fan** - COSMOS CRD a compact series of centrifugal type exhaust and supply in-line duct fans for air conditioning systems. They are specifically designed for installation where space is limited and allow installation directly at any angle and any location along the duct system. Due to their silent operation, they can be used for direct air exhaust from the room or for air supply into the room.

**Fan Filter Unit** - COSMOS Fan Filter Unit's deliver clean air through high-efficiency particulate air (HEPA) filters. Our quiet and efficient motorized filter modules are designed to achieve higher levels of air cleanliness as per ISO standards. COSMOS offers a wide variety of sizes, metal construction, and motor types/voltages to better meet your needs. Whether you are looking for a single FFU with a power cord to make your work area cleaner, or you are looking for a smart, fully automated laminar flow cleanroom, COSMOS has a solution for you.



Filtered Exhaust Fan Module



# Innovations

## IAQ Diffuser



for Restricting  
Spread of  
Bacteria & Viruses

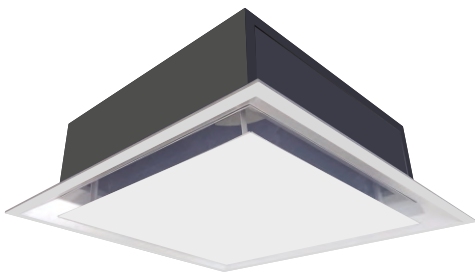
### Description

Over the past two years of Pandemic, we have learned that the virus is more likely to spread in situations where virus-carrying particles exhaled by an infected person can accumulate in the air and other people breathe in these particles. It is suggested that the effective ventilation control infection transmission & improves IAQ. COSMOS offers Fan powered "IAQ DIFUSER" for reducing the risk of exposure to bacteria & viruses with improved indoor air quality.

### Features

- Two Way Solution by combining UVC Air Sterilization & Enhanced Forced Ventilation.
- Improved room air movement allows higher room temperature setting thus lower power consumption.
- Improved indoor air quality can benefit your everyday life by :
  - Controlling mould and bacteria,
  - Reducing infectious diseases,
  - Reducing smells and odours
  - Improving asthma.

# Dynamic Diffuser

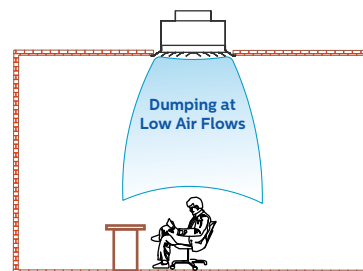


### Description

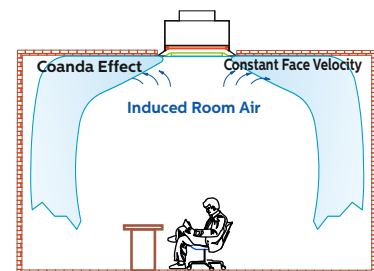
One of the main problem in VAV air distribution is the low quality of air diffusion due to high variations in airflow. When designing a system, design engineers select diffusers based on maximum air volume, trying to reach the occupied zone with face velocity required to properly mix the room air while avoiding thermal discomfort. When VAV systems supply lower air volumes, however, the diffusion performance get seriously affected. COSMOS offers "Dynamic Diffuser" with self adjusting mechanism which self-adapt to increased or decreased cfm in order to let the air pass through induction passage with same face velocity, resulting in a more stable performance in VAV applications.

### Features

- Self adjusting cone which self adopt to change in supply air volume.
- Higher Insuction ratio & more stable throw at lower air volume.
- Increased thermal comfort & energy efficiency
- Improved ventilation for Indoor Air Quality



**Conventional Diffuser**  
© Minimum Supply Air Quantity



**Dynamic Diffuser**  
© Minimum Supply Air Quantity



# Testing Facilities & Certifications

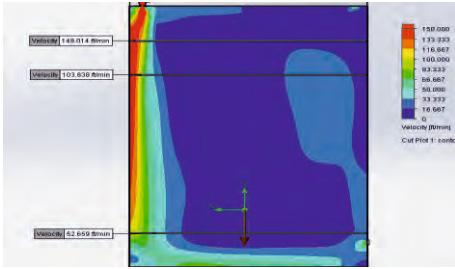
## Acoustic Testing

Reverberation Room for Acoustic Testings



## HVAC Simulation

CFD Software for HVAC Simulation



## Product Testing

Performance of Air Outlet



## Certifications



The performance data of all COSMOS Air Distribution Products are determined in the certified internationally acclaimed laboratories as well in house COSMOS Testing laboratories to both the applicable standards and guidelines. Execution and quality of such measurements are determined by the quality management manual as per ISO 9001 and checked in regular intervals.

## Acoustics

- **DIN EN ISO 3741** Determination of sound power levels of noise sources using sound pressure – Precision methods for reverberation test rooms.
- **DIN EN ISO 7235** Laboratory measurement procedures for ducted silencers and air-terminal units - Insertion loss, flow noise and total pressure loss.
- **ASTM E477** Standard test method for measuring acoustical airflow performance duct liner materials & fabricated silencers.
- **AHRI/ARI 880** Laboratory method used for Performance Rating Of Air Terminals

## Aerodynamic Performance

- **ANSI/ASHRAE Standard 70** Method of testing the performance of Air Outlets & Air Inlets.

## Simulated Rain Performance

- **EN 13030:2001** Ventilation for buildings. Terminals. Performance testing of louvers subjected to simulated rain.

## Fire Resistance Performance

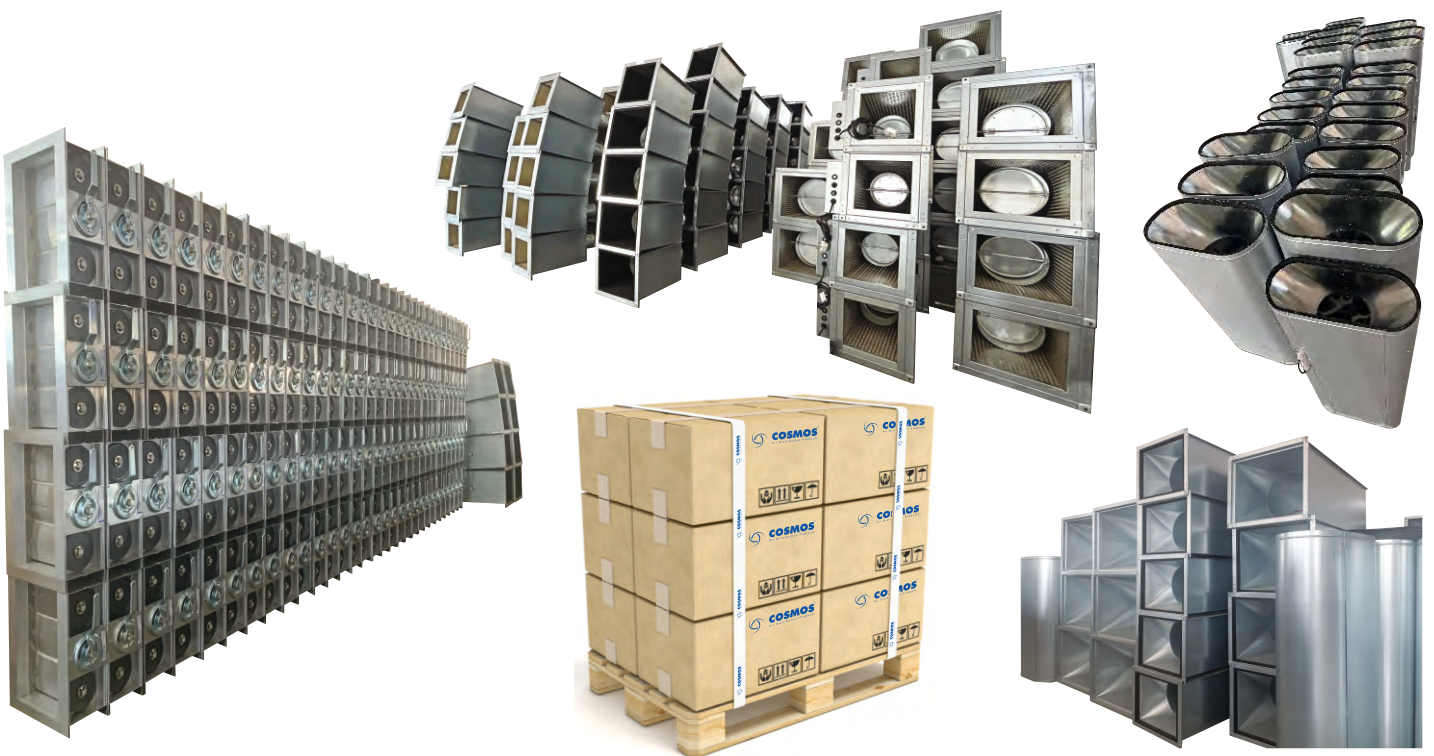
- **UL 555** UL Standards for Safety Fire Dampers to check Fire Resistance rating
- **UL 555 S** UL Standards for Safety Smoke Dampers to classify the leakage and temperature rating in smoke control systems.

The data of air velocities and distributions, pressure drops and sound power levels determined in the various laboratories are summarized in the catalogue data and product information of the corresponding products.



# Factory Inside

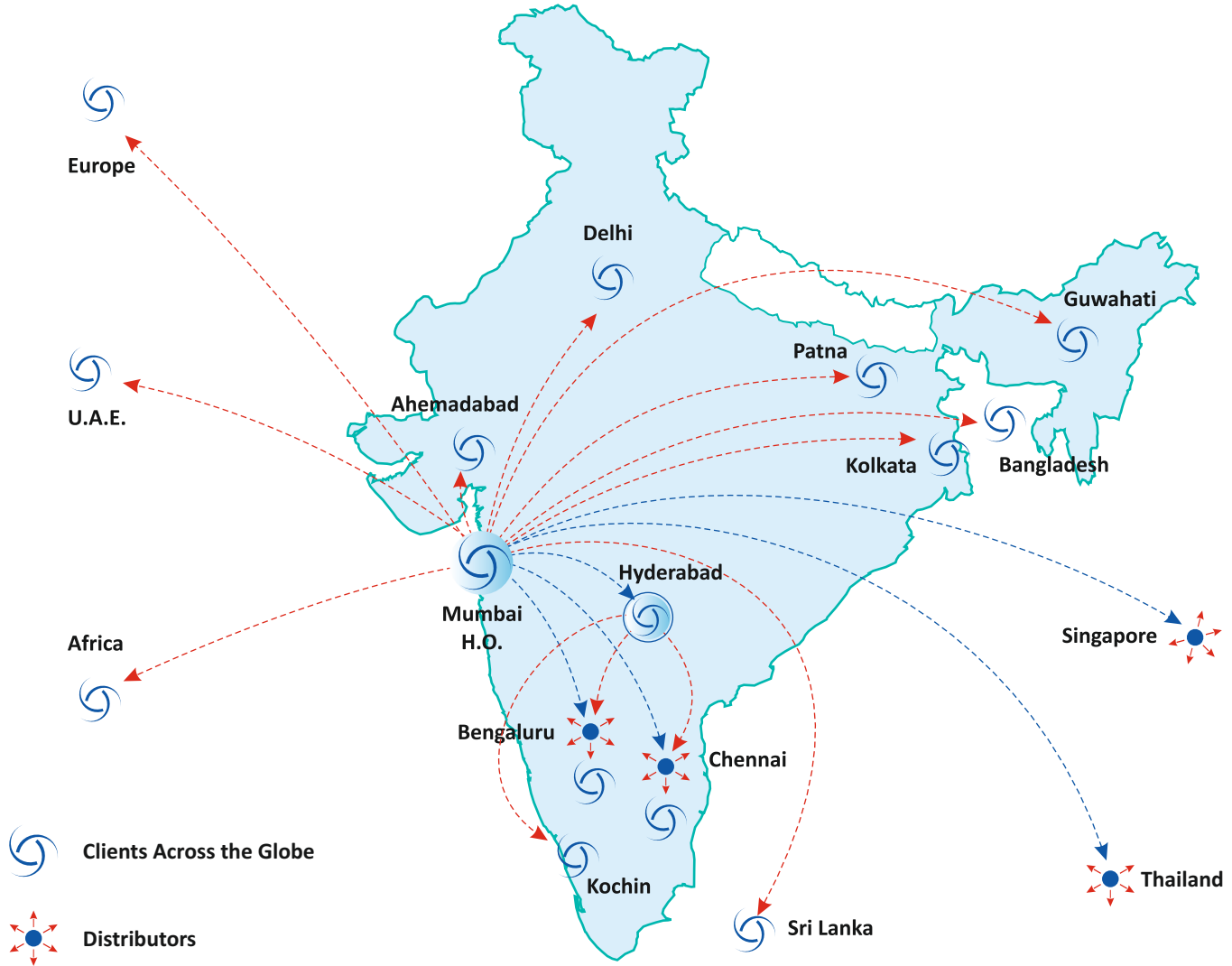
## High Tech World Class Manufacturing Facility



## Working with O.E.M. like



# Network



Manufactured By  
**SYAMANTAK INDUSTRIES PVT LTD.**

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