

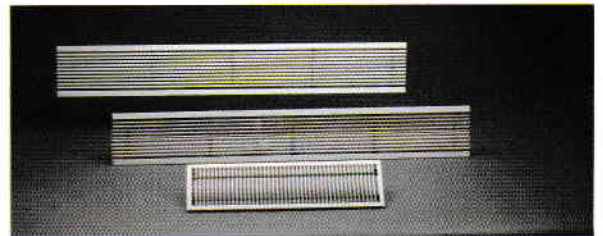
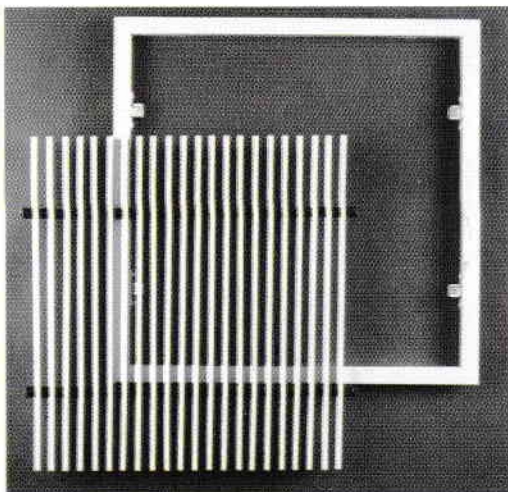
1. Linear Bar Grilles

Single direction / Two way / Curved /
Four way /Removable core

For ceiling and wall installation with perimeter front border and horizontal or vertical, fixed profiled bars. The air discharge can either be at right angles to the grille or at an angle of 15° / 30° / 45°.

In case of removable core grilles, the grille core is held in place with spring clips and can be removed.

Can also be supplied as mitred corner.
Available with various border widths.



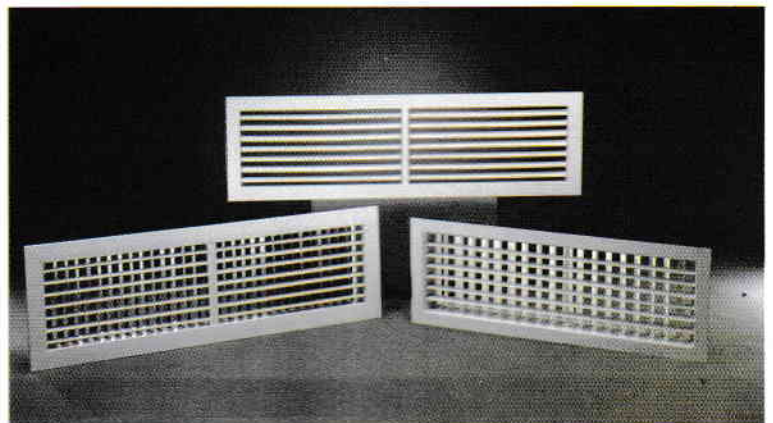
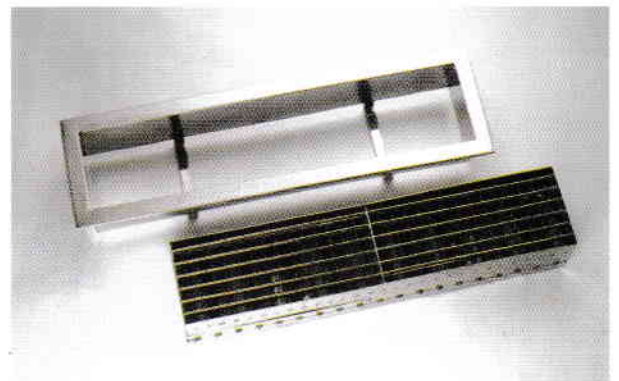
2. Adjustable Deflectors

Single / Double deflection

Diffusion grille with individually adjustable / gang operated vertical and horizontal laminae(deflectors).

The deflectors are adjustable from the front. The deflecting vanes of the flap guarantee constant uniform distribution of air over the entire grille surface.

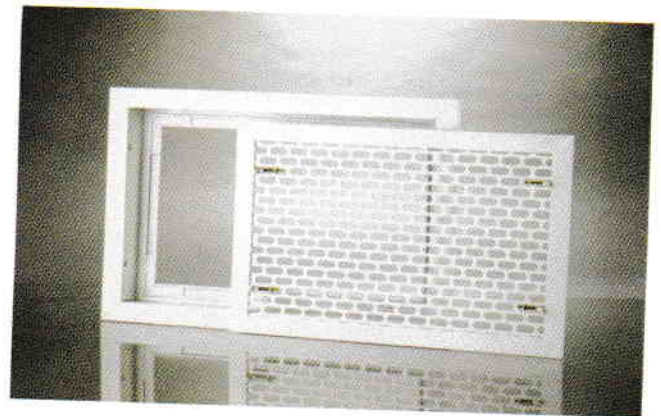
These are available in Aluminium or Stainless Steel construction.



3. Riser Grilles

Perforated Face / Louvred front / With or Without filter arrangement

Commonly used for return air risers. These are provided with fixed front or removable core for ease of cleaning or filter maintenance. Available in Aluminium or Stainless Steel construction.



4. Door Transfer Grilles

Door transfer grilles or Non-vision type grilles are suitable for air transfer and exhaust air. They consist of a surrounding front border with horizontal, fixed inverted vee blades and are suitable for visible screw fixing (border counter punched). The grille can be supplied on request with a matching rear frame for door installation.

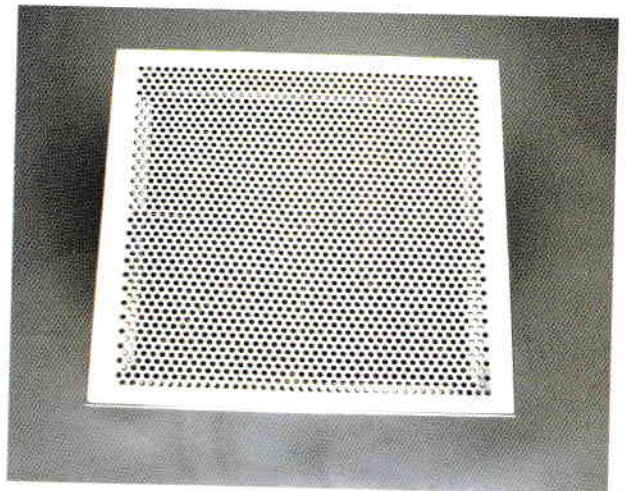
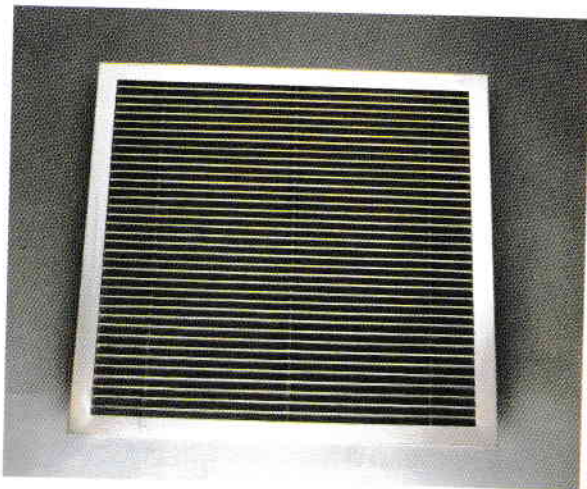
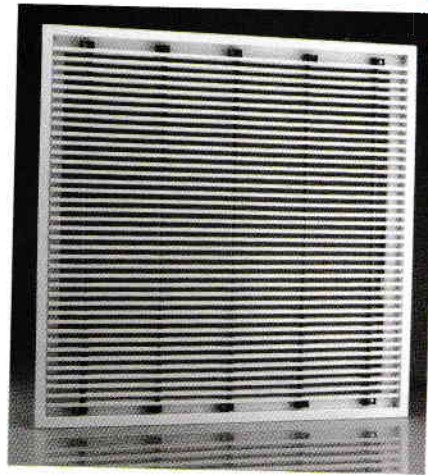


5. Floor grilles

Perforated Face / Louvred Face

Used extensively for underfloor air-conditioning. The shape is suitable for installation in grid type floor standing pedestals. These are designed for load bearing applications.

Available in Aluminium, Mild Steel or Stainless Steel construction.

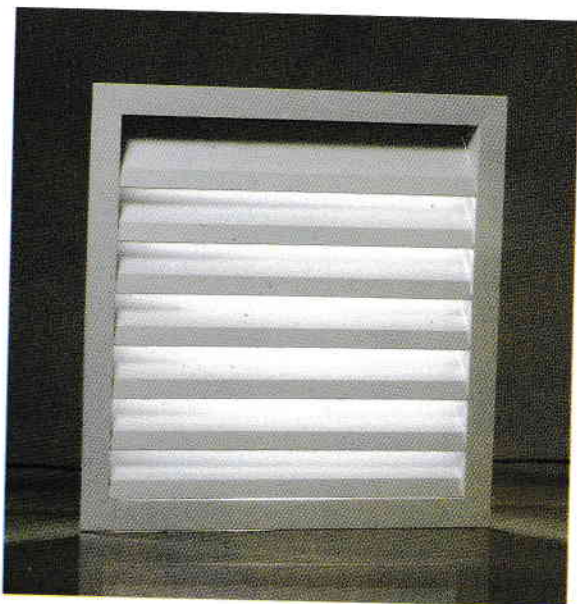


6. Louvres

Sound-attenuating external louvre for Weather and noise protection at reduced depth.

Weather resistant louvres are available in single or multi-section units and suitable for façade installation.

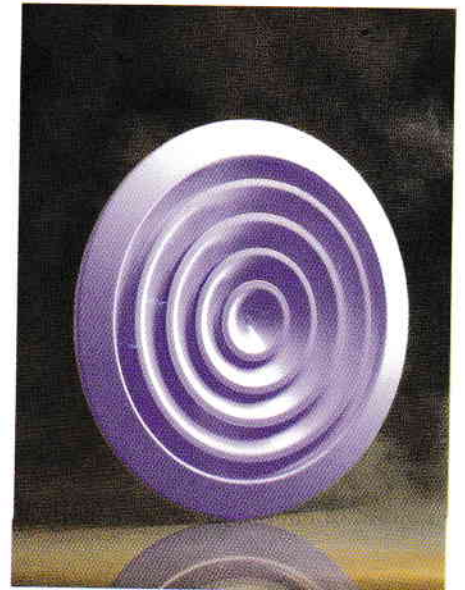
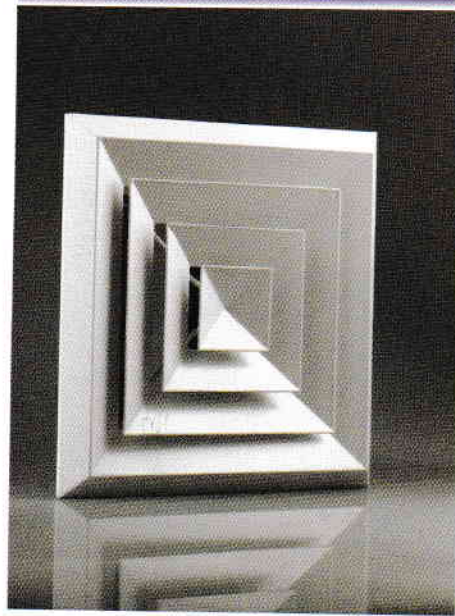
Available in steel or aluminium.



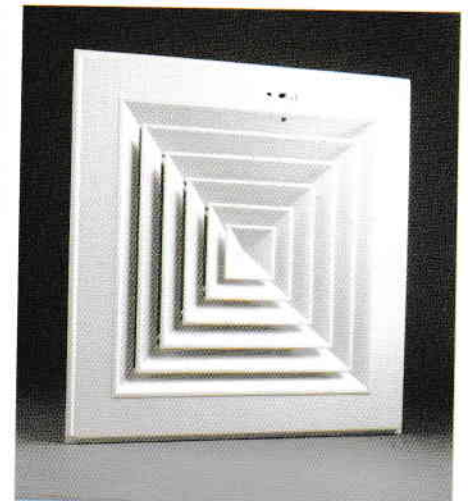
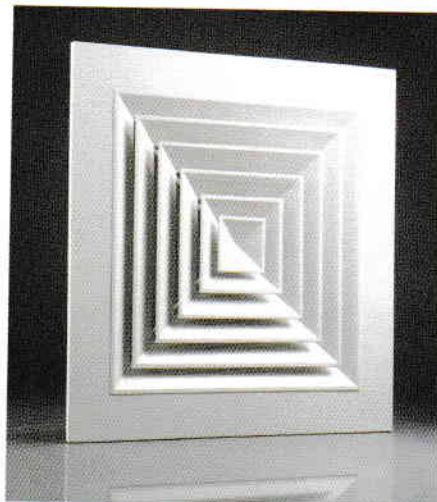
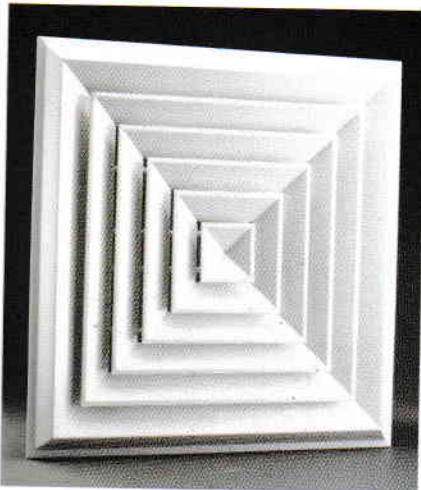
7. Diffusers

Together with renowned designers, architects & engineers we have designed special ceiling & wall diffusers so that they can be used as design elements while still meeting the air circulation requirements.

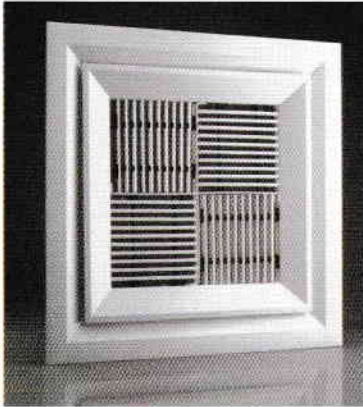
Ceiling Diffusers



The ceiling diffusers circular and square are suitable for the introduction of supply air or the removal of extract air in the ceiling. They are available with circular or square exterior frames. The flat design diffusers blow the air flat along the ceiling and therefore can be employed as well for rooms with a low height. The diffusers with conical outer frames and anti smudge design can be used for higher ceilings. For modular ceilings, diffusers can be provided as per the standard grid required.



Ceiling Distributors



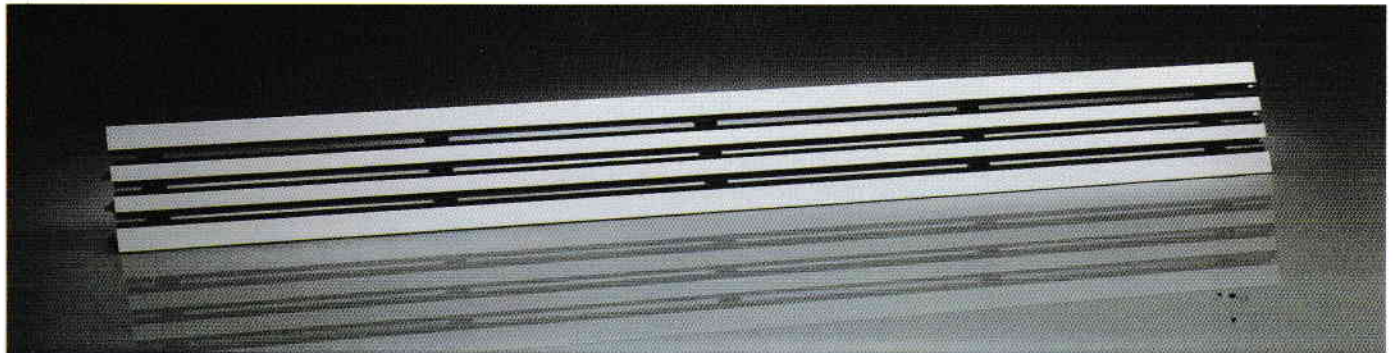
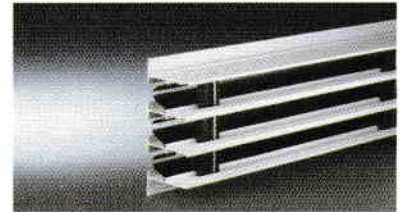
This distributor is a hybrid distributor combining the diffusion pattern of a ceiling diffuser and the long throw of a grille. This is extensively used for theatres where the grille area is closed by a damper where the heights are low in balcony areas and the air is diffused around, For the area near the stage, the long throw of the grilles is used.

Slot diffusers are air supply elements which can be integrated relatively harmoniously in ceilings. They are suitable for air conditioning in large offices, training rooms, laboratories, passenger halls etc. They set themselves apart through unique discharge characteristics giving a draft free air distribution.

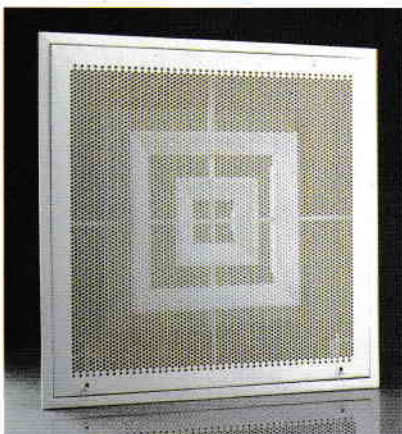
Available with - One, two or three discharge devices with adjustable vanes.

- Adjustable for variable air volume flows.

Slot Diffusers



Perforated Ceiling Diffusers

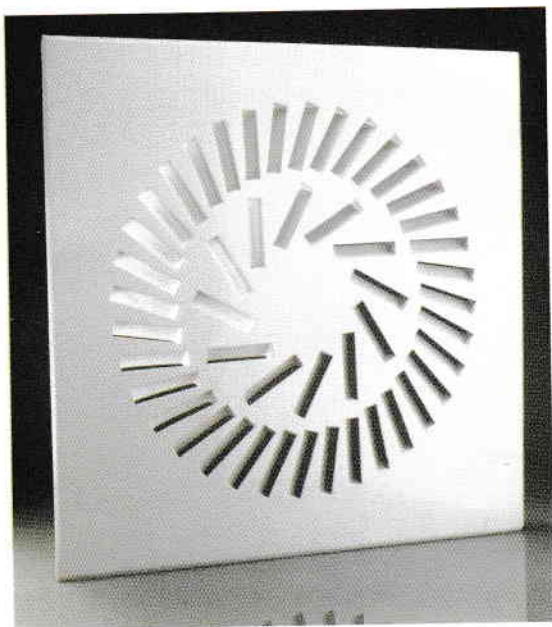
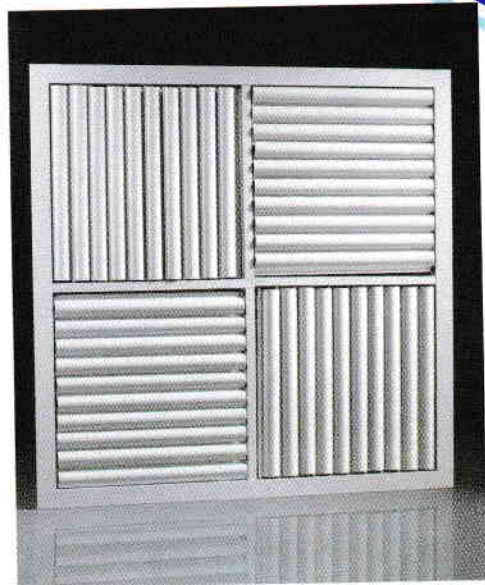


Suitable for Modern systems using "soft" cooling methods and air diffusion coupled with the characteristics of displacement ventilation.

Swirl Diffusers

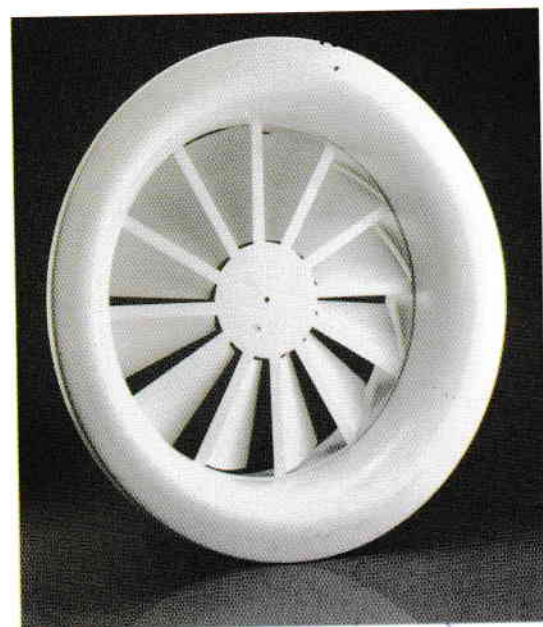
These are excellent air distribution products providing an efficient solution for generating high induction between supply and room air. The swirl pattern generated makes it ideal for low as well as high ceiling applications.

The **Four Way Swirl Diffusers** are suitable for both the industrial and commercial applications. They are suitable for both large heights (e.g. malls, factory buildings, airports, theatres and banking halls) and lower rooms down to 3.80 m (e.g. assembly halls). The blades are individually adjustable, enabling a horizontal discharge direction for cooling mode and a vertical discharge direction for heating mode. The diffusers are connected to the air duct system via the plenum box, in either vertical or horizontal configuration.



The **Round Helical Swirl Diffuser** gives excellent swirl characteristics making it suitable for large halls, convention centres, airport terminals etc. Available with plenum box for top or side entry air connection. Normally the blades are fixed but can be provided with adjustable blades for heating application.

The **Adjustable Swirl Diffuser** enables flexible room design as the blades are individually adjustable manually for the exact swirl flow pattern. Available with plenum box for top or side entry air connection.



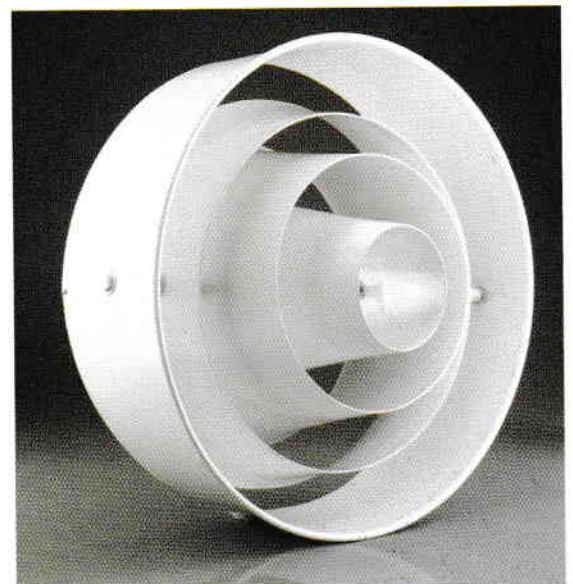
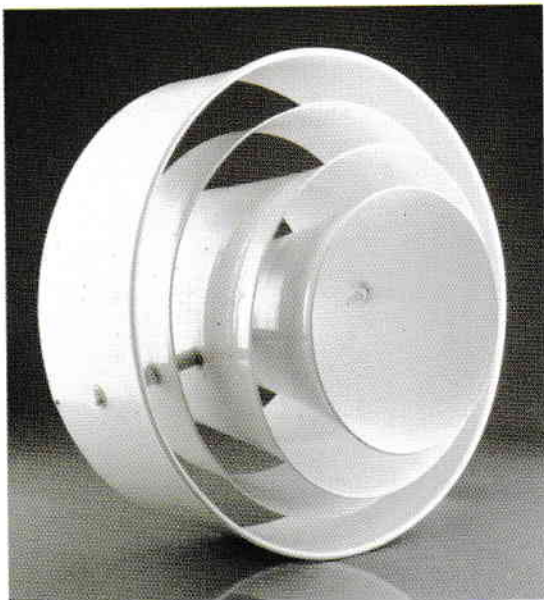
Spot Diffusers

The Spot Diffusers are excellent for spot heating and cooling remote areas. Kitchens, factories, theaters, indoor sports facilities, airport terminals or any place where you need to move conditioned air from an inaccessible place to the work environment is easily handled by the Spot Diffusers. Engineered to exacting standards and stylish in design, it is the perfect choice for many new and retrofit building constructions. A knurled aluminum thumb-operated airflow adjustment knob facilitates control of airflow by regulating the volume out of the exit nozzle with the precision internal damper. The internal damper is under tension by a stainless steel spring for sealing and quiet operation. The directional control can pinpoint the airflow where it is needed as space or occupant configurations change. This feature makes these units ideal for use on stages and movie sets.



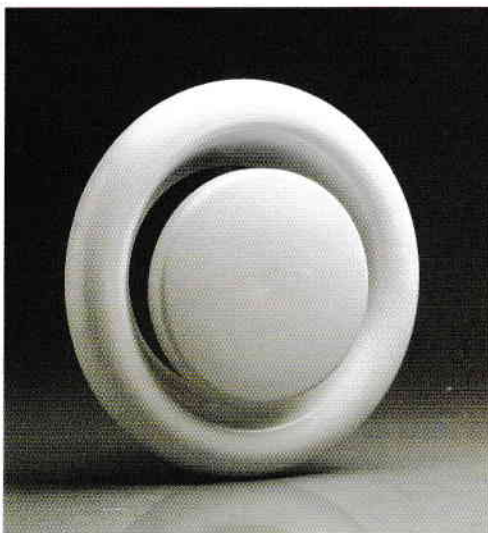
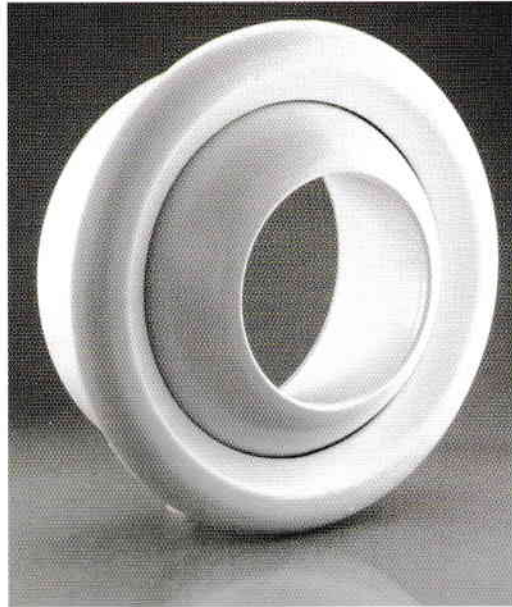
8. Reversible Turbo Nozzle

The versatile Reversible turbo nozzle utilizes a distinctive cone design - by rotating the inner cones, it provides an effective selection of narrow or wide jet air pattern as well as adjustment of direction. It has infinitely adjustable 2-axis core for directional control coupled with high airflow capacity & long throw capability.



9. Jet Nozzles

Jet nozzles are used where the supply air from the diffuser has to travel a large distance to the occupied zone. This is the case in large rooms (halls, assembly rooms etc.), particularly when the distribution of air via ceiling diffusers is not possible or not practical. The direction of the air stream from the jet nozzle can be easily adjusted manually to suit particular on site conditions.

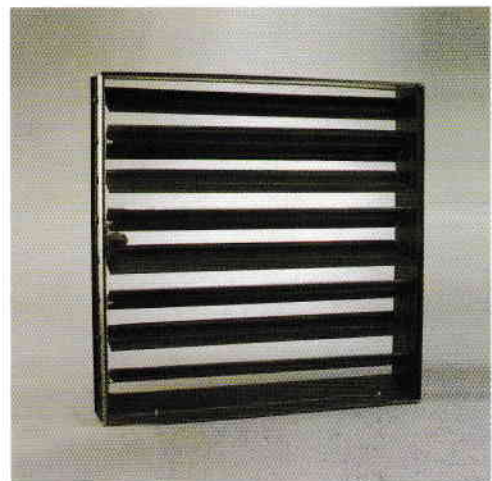


10. Disc Valve

These easy-to-install ventilation valves are a cost-effective solution for small rooms where you only need to circulate smaller quantities of air. Supply air and exhaust air variants are available according to the prevailing requirements. The volume flows can be altered by turning the valve disk.

11. Box Type Dampers

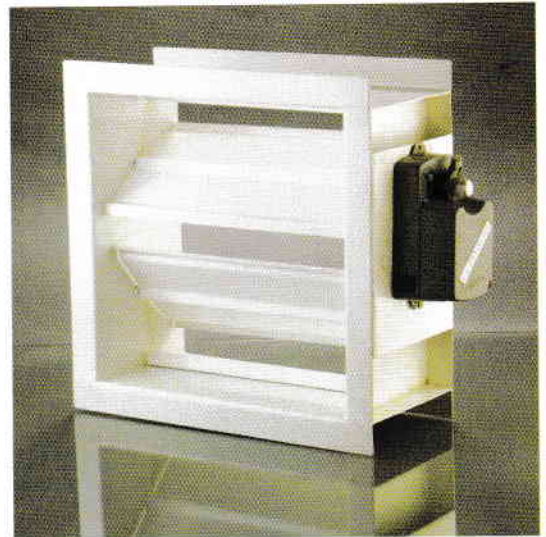
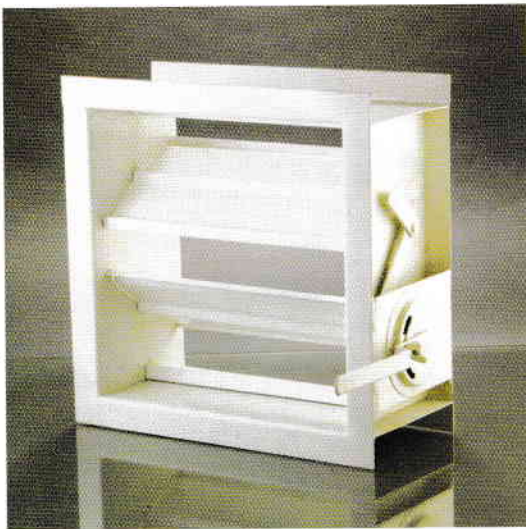
These are in rugged construction with perimeter angle border and opposed blade action, blades adjustable from the front. Deflectors are also available for linear bar grilles. Also available are butterfly or flat dampers for diffusers.



12. Volume Control Dampers

Standard GI Volume Control Dampers

Our standard GI volume control dampers are rugged in construction and are available in manual as well as motorized adjustment along with opposed blade arrangement.



Aerofoil Blade Volume Control Dampers

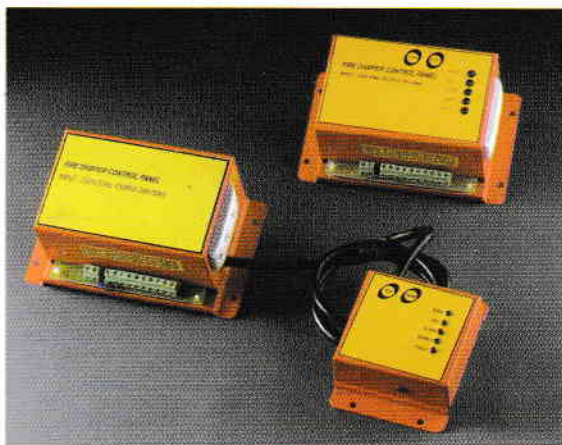
Our aerofoil dampers have special aerofoil section blades are coupled by external linkage, which can provide either parallel or opposed blade operation via gears and ensure leak tightness at the same time.

Aerofoil sections are specially designed to give low resistance and reduced noise levels.



13. Fire Dampers

Fire dampers are designed for automatic isolation of fire compartments in ventilation and air conditioning systems. The fire dampers have to close after a certain temperature is reached, sealing off sections of a building to prevent the spreading of fire and smoke. Our fire dampers are CBRI approved as per UL555 specs. The fire dampers can be operated by a fusible link or can be operated by an electric actuator. We have special Fire damper control panels that can be used in conjunction with optional smoke detectors or the existing BMS system. The panels can be custom made to suit various requirements.

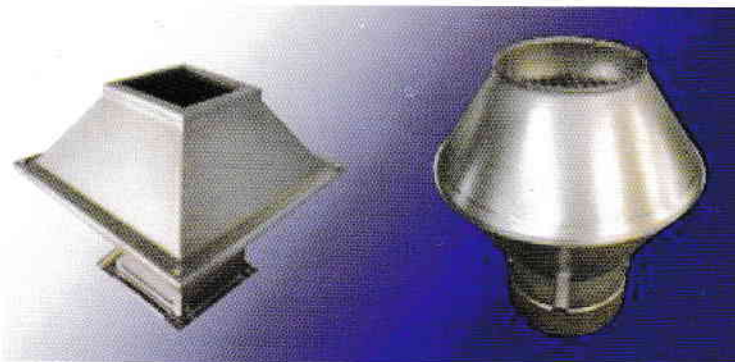


Products currently being developed at our R&D



14. Displacement Diffusers

15. Jet caps / Exhaust Deflector



16. VAV Boxes

