



briteair
SYSTEMS LTD









Manufacturers of Grilles, Diffusers and Louvres









THE UK'S PREMIER MANUFACTURER OF GRILLES, DIFFUSERS AND LOUVRES

At our factory in Leeds, UK, we have developed a wide range of Grilles, Diffusers and Louvres. Our flexible and extensive manufacturing capability has developed due to the large investment we have made in sheet metal cutting and forming machinery. We can offer our Swirl Diffuser range to suit all ceiling tile arrangements and all our sheet metal is cut out using our Trumpf Fibre Laser cutting machine which guarantees both accuracy and an excellent finish. It has been our aim since Briteair was established to provide the Customer with a solution for even the most demanding applications.

Technical assistance and value engineering have proven to be one of our great strengths. We can offer full CFD analysis showing animated airflows, velocities, temperatures and pressure drops. This enables us to demonstrate our products and prove selections offering our Clients peace of mind and the most efficient solution.

Please take a little time to look through our range of Grilles, Diffusers and Louvres and should you require any further information on any items, please do not hesitate to contact us on 01924 444174 or email us on info@briteair.co.uk

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MANUFACTURING SEVICES

Laser Cutting

All our sheet metal components are cut using our new Trumpf Fibre TruLaser cutting machine. This means all our products are of the highest quality, speed and accuracy.



Sheet Metal

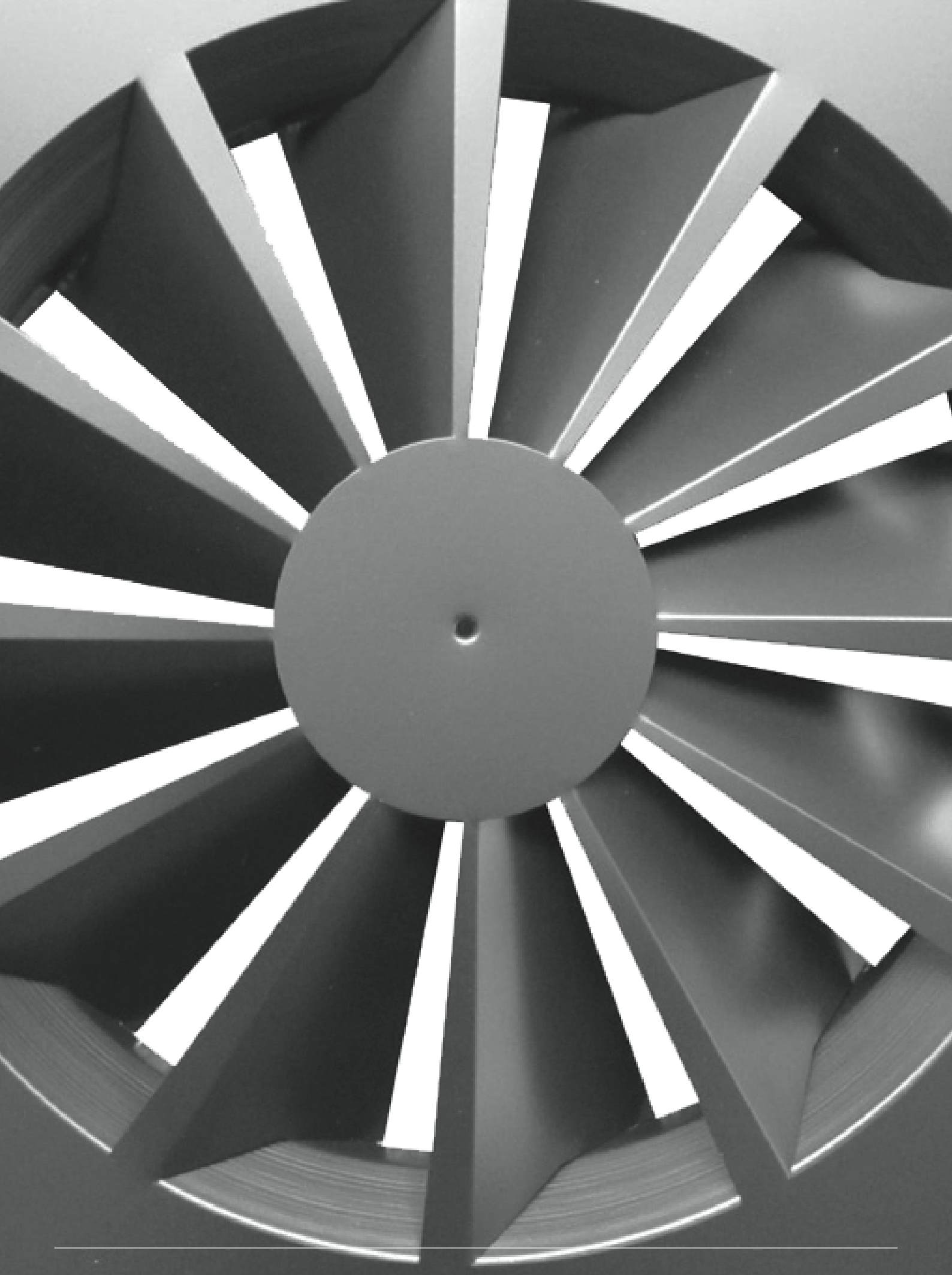
All plenum boxes and sheet metal products are manufactured in our factory ensuring quality and fast turnaround. Ordering the plenum box with the Diffuser guarantees the correct fit and air distribution performance.
Our plenum boxes can be manufactured to suit any site requirements e.g. to fit into low ceiling voids or exposed applications.



Galvanised Diffuser Range

To compliment the increase in projects with exposed galvanised ductwork we offer a range of products with a galvanised metal finish. The Diffusers can be fitted with either a galvanised steel plenum box or a spun top entry adapter.





OUR PRODUCTS

SSW Type Swirl Diffuser



Suitable for ceiling mounting and can be manufactured to suit most ceiling tile arrangements.

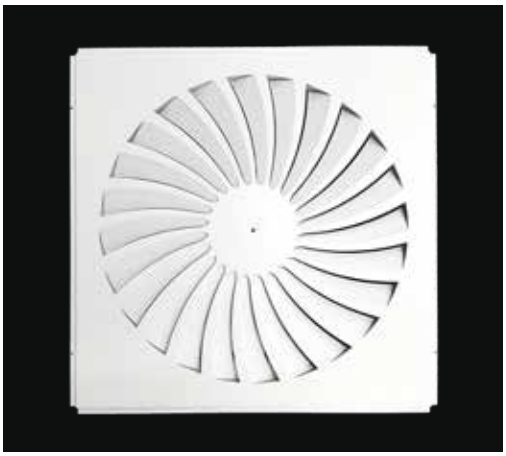
The Straight Vane Swirl Diffuser offers excellent induction of room air and the rapid decay of supply air velocities and air temperature differentials.

Nominal Neck Sizes: 540, 500, 450, 350, 300 & 200

Circular and Square Face available

Mounting Height: 2.4 – 4.5 metres

CSW Type Swirl Diffuser



Suitable for ceiling mounting and can be manufactured to suit most ceiling tile arrangements.

The Curved Vane Swirl Diffuser offers excellent induction of room air and the rapid decay of supply air velocities and air temperature differentials.

Nominal Neck Sizes: 500, 450 & 350

Circular and Square Face available

Mounting Height: 2.4 – 4.5 metres

ODS Type Swirl Diffuser



Suitable for ceiling mounting and can be manufactured to suit most ceiling tile arrangements.

The Fixed Blade Swirl Diffuser offers excellent induction of room air and the rapid decay of supply air velocities and air temperature differentials.

Nominal Neck Sizes: 540, 450, 350, 254

Circular and Square Face available

Mounting Height: 2.4 – 4.5 metres

OUR PRODUCTS

ADSW Type Swirl Diffuser

Suitable for ceiling mounting and can be manufactured to suit most ceiling tile arrangements. The Steel Blades can be easily adjusted from the face of the diffuser to give either a Horizontal or Vertical air pattern. The diffuser offers high induction of room air and the rapid decay of supply air velocities and air temperature differentials.

Blade Patterns Available: 48, 24, 16, 14 & 8
Face Dims: 595x595, 495x495, 395x395, 295x295
Circular and Square Face available
Mounting Height: 2.4 – 4.5 metres



SSW-HC Type Swirl Diffuser

Suitable for both ceiling mounting and exposed applications and can be manufactured to suit most ceiling tile arrangements.

The High Capacity Swirl Diffuser allows high air volumes to be used whilst maintaining all the benefits of rapid decay of supply air velocities and air temperature differentials.

Nominal Neck Sizes: 350, 450 & 500
Circular and Square Face available
Mounting Height: 2.4 – 4.5 metres



RSW Type Swirl Diffuser

Fixed Vane Swirl Diffuser available in both circular and square face plates. The curved frame is to assist with horizontal air distribution and makes it most suitable for mounting in exposed applications.

Nominal Neck Sizes: 400, 355, 315, 250, 200, 160 & 150
Circular and Square Face available
Mounting Height: 2.4 – 4.5 metres



RSW-TR Type Adjustable Swirl Diffuser

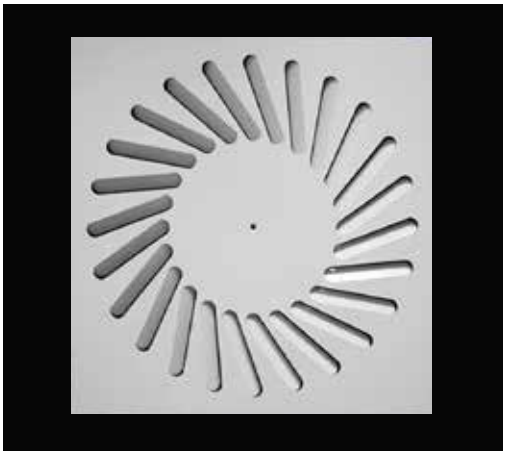


Mainly suitable for rooms with high ceilings. The blades are adjustable providing both horizontal and vertical supply air discharge patterns. The blade settings can be adjusted manually, through various types of motorisation or with a thermal actuator where the angle of the blade is adjusted to suit the supply air temperature.

Nominal Neck Sizes: 630, 500, 400, 315 & 250

Mounting Height: 3.0 – 20 metres

DSW Type Swirl Diffuser



Suitable for ceiling mounting and can be manufactured to suit most ceiling tile arrangements.

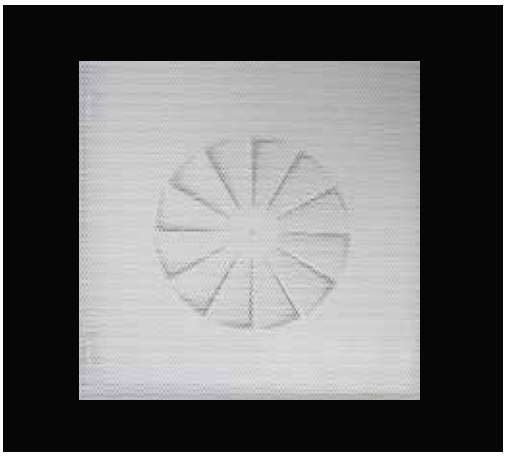
The Fixed Blade Radial Swirl Diffuser offers excellent induction of room air and the rapid decay of supply air velocities and air temperature differentials.

Nominal Neck Sizes: 540, 450, 350, 254

Circular and Square Face available

Mounting Height: 2.4 – 4.5 metres

PSW Type Swirl Diffuser



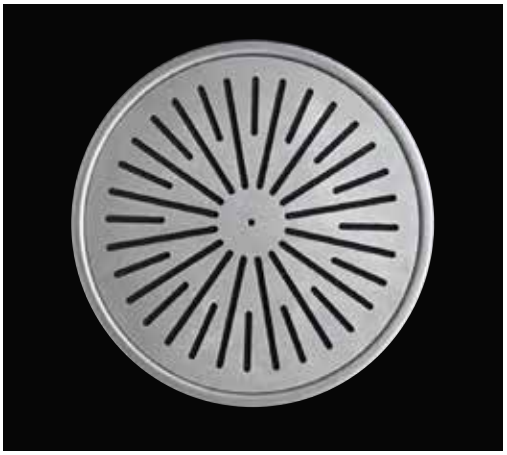
Perforated Face Swirl Diffuser suitable for ceiling mounting and is available with either a fixed or hinged perforated sheet face offering excellent performance but with a more discreet appearance within the ceiling.

Nominal Neck Sizes: 450, 400, 315, 250 & 160

Circular and Square Face available

Mounting Height: 2.4 – 4.5 metres

BFS - Floor Swirl Diffuser



Our Floor Swirl Diffuser is suitable for heavy duty use and is available in either Stainless Steel or Powder Coated Mild Steel.

Nominal Neck Sizes: 200 Dia

Alternative Face Patterns available

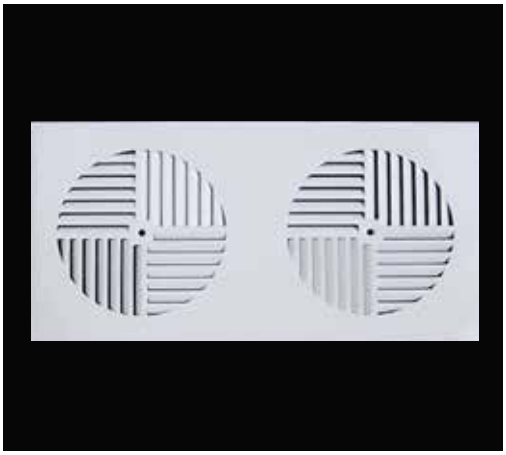
OUR PRODUCTS

BTO Type Step Diffuser

Suitable for mounting in the Step Riser to supply air within Auditoriums and General Assembly Rooms.

The High Induction effect of the Twist Outlet creates rapid decay of both the supply air velocity and temperature differential within very close proximity to the diffuser.

The subsequent low velocity air displaces the warm, polluted air leaving a comfortable environment for the occupant.

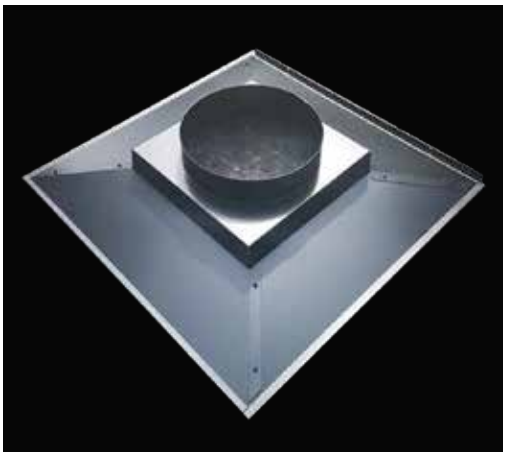


BLFT Type Perf Diffuser

The BLFT Diffuser has been designed to work with Low Free Area Tiles – typically 23% - enabling the use of standard metal ceiling tiles. This creates a consistent ceiling with no visible signs of the diffuser from within the occupied zone.

Nominal Sizes: 300, 330, 400, 500, 600

Mounting Height: 2.4 – 3.5 metres

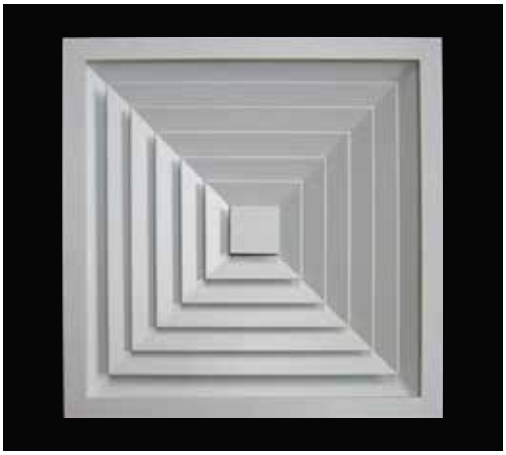


B4W - Multicone Diffuser

Suitable for both Supply or Return Air and ceiling mounting.

Accessories available: OBD, Blanking Plates and Plenum Boxes.

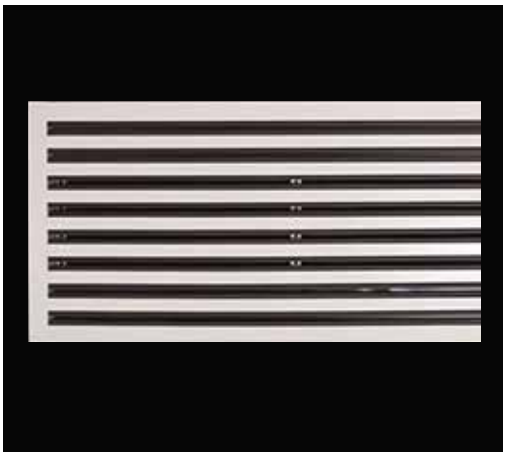
Nominal Neck Sizes: 150x150, 225x225, 300x300, 375x375 & 450x450/595x595 o/a



BSD Slot Diffuser

Suitable for either ceiling or wall mounting.

All individual slots are adjustable to give three different air patterns to achieve comfort criteria within the occupied zone. The diffuser can be supplied with up to 8 slots and can be manufactured in any length to suit site requirements.



BDL - Drum Louvres

Suitable for either duct or wall mounting.

Drum Louvres are generally used where high amounts of air are requiring long air jet throws. Typically used in Workshops, Retail areas, Swimming Pools and Sports Halls.

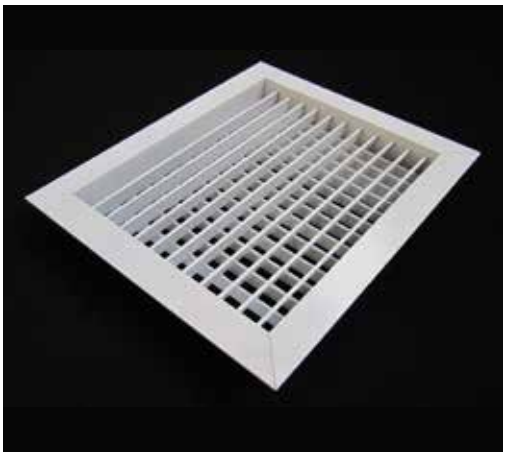
The drum and guide vanes are adjustable to give control over the air pattern for both heating and cooling



Deflection Grilles

Suitable for both Supply or Return Air and can be wall or ceiling or duct mounted. The adjustable blades give excellent on-site flexibility as they can be manually set to achieve the air direction and comfort criteria required.

Accessories available: OBD and Plenum Boxes

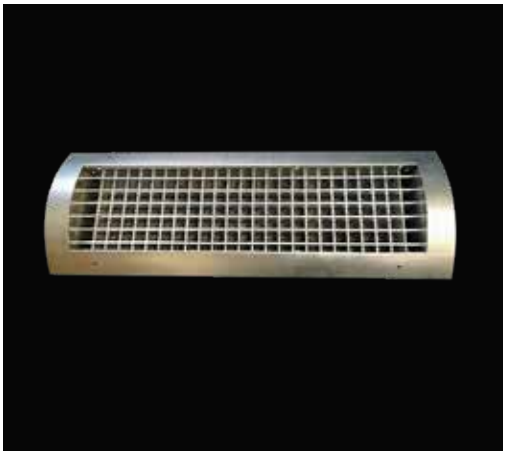


BDM - Duct Mounted Grilles

Suitable for mounting in exposed spiral ductwork saving the cost of a branch or saddle piece. The BDM is available with either single or double rows of adjustable blades offering excellent on-site air distribution flexibility.

The frame is laser cut from a single piece of galvanised steel giving it both added strength and accuracy.

Accessories available: Damper



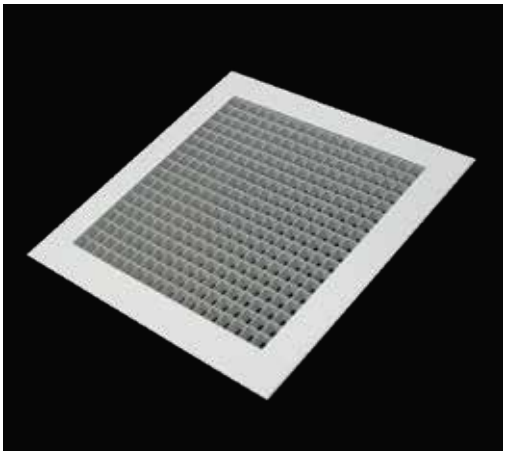
OUR PRODUCTS

BEC - Eggcrate Grille

Suitable for either ceiling or wall mounted air extract applications.

With a high free area of up to 85%, the Eggcrate Grille is able to handle high volumes of air whilst keeping the grille size to a minimum and noise levels and pressure resistance low

Accessories available: OBD and Plenum Boxes

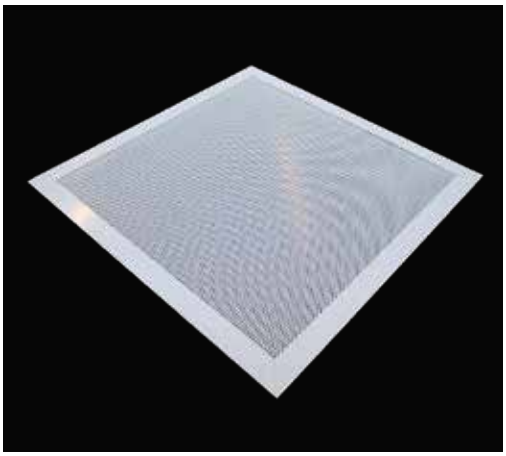


BPG – Perforated Face Grille

Suitable for wall and ceiling mounted return air applications.

The BPG offers a neat and attractive appearance to an open plan ceiling arrangement.

Accessories available: OBD and Plenum Boxes



BLG – Linear Bar Grille

Suitable for mounting in ceilings, walls or partitions.

The Linear Bar Grilles offers a neat and aesthetic appearance and is available with 0°, 15° and 45° angled blades.

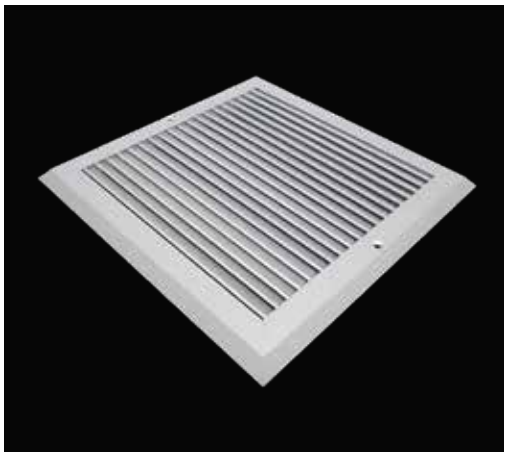
Accessories available: OBD and Plenum Boxes



BNV – Non Vision Grille

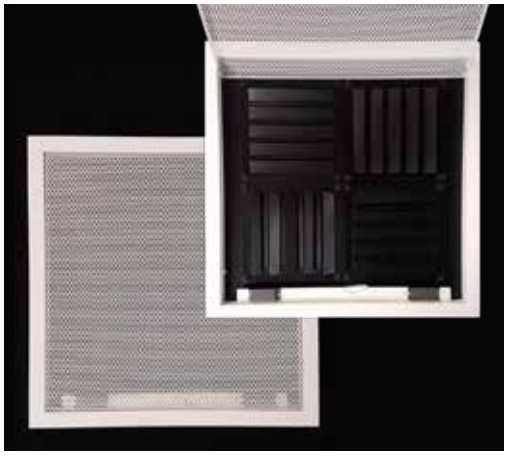
Suitable for mounting on doors, walls or partitions.

The Non Vision Grille is available with an optional matching backing flange to give a neat appearance on both sides of the partition or door.



P4W – Perforated Face Diffuser

Suitable for supply and extract air and can be mounted to suit most ceiling tile arrangements. The perforated face offers a discreet appearance within the ceiling and is hinged to allow access to the deflectrols which can be rotated to alter the air discharge pattern – 4, 3, 2 or 1 Way.



Air Valves

Available as supply or return air valves. Manufactured from steel sheet and painted RAL 9010 as standard. The regulation of the airflow is achieved by turning the control disc (+ or -) and can be locked in position.



BCD – Circular Diffuser

Multiple circular cone diffuser c/w fixed core suitable for both supply and extract and usually mounted in exposed ductwork applications. Available with flap damper and fixing bracket for duct mounting.



OUR PRODUCTS

BWL38 – 38mm Pitch Weather Louvre

Suitable for supply and extract air and can be mounted either internally or externally on the wall. Our 38mm Pitch Weather Louvre is designed to offer an aesthetic appearance for smaller louvre panels whilst maintaining good rain defence.

Available with bird mesh or insect mesh

Powder Coated to stock RAL colours



BWL50 – 50mm Pitch Weather Louvre

Suitable for supply and extract air and can be mounted either internally or externally on the wall. Our 50mm Pitch Weather Louvre is designed to offer an aesthetic appearance whilst offering a more robust construction but still maintaining good rain defence.

Available with bird mesh or insect mesh

Powder Coated to stock RAL colours



BWL75 – 75mm Pitch Weather Louvre

Suitable for supply and extract air and can be mounted either internally or externally on the wall. Our 75mm Pitch Weather Louvre is designed for single large louvre panels or multiple assemblies bolted together with either a continuous blade appearance or visible mullion joints.

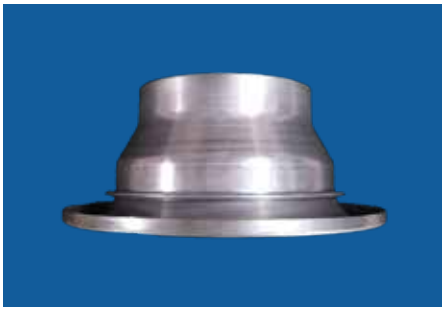
Available with bird mesh or insect mesh

Powder Coated to stock RAL colours



OUR INNOVATION

A commitment to constant improvement in our manufacturing process enables us to upgrade more traditional methods of construction leading to better aesthetics, standards of quality and easy access to "non standard options".



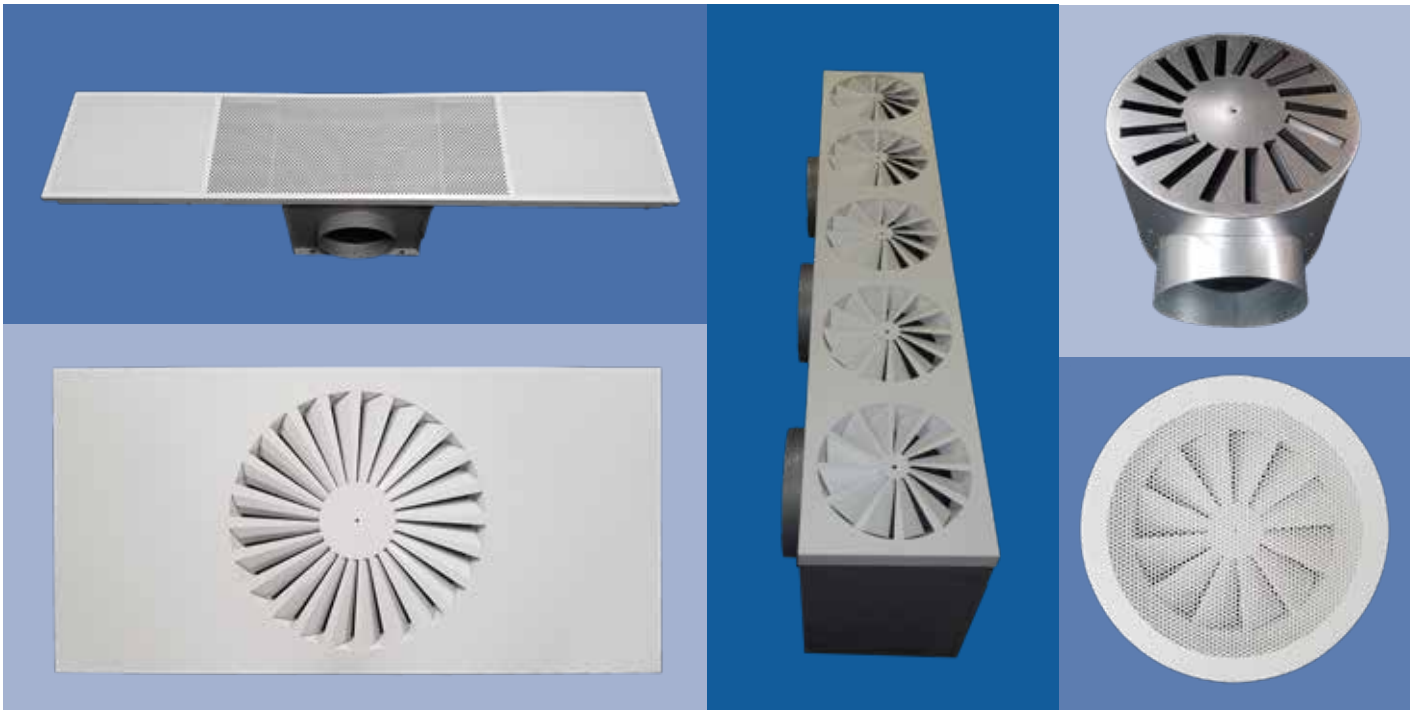
Neat Seam Finish

Instead of using clips to hold the diffuser together we can offer a neat seam which laps all components together offering a very strong and attractive joint.



Laser Cutting

Our Duct Mounted Grilles are laser cut from one piece of metal so there are no unsightly corner joints to weaken the construction.







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