



## **AIR DIFFUSERS, GRILLES & LOUVRES**

Highest product quality for  
best air quality

# You may not notice our air diffusers...



Our air diffusers are available in several different versions for various environments and needs.

If you don't notice our air diffusers, this is a sure sign that we have done a good job. Quiet, free of draught and well-designed to blend in among other fittings in their surroundings, our air diffusers give rooms a fresh, energising indoor climate without disturbing us in our daily life.

## Design is function

The obvious distinction between our different air diffusers is their appearance. In order to blend in into the décor of the room and uplift its overall impression, they need to look a certain way; but the design of these products is also decisive for their function. With such a wide range, we have a diffuser to suit almost every application and many diffusers have the flexibility to suit changes in building needs over time.

## Quiet

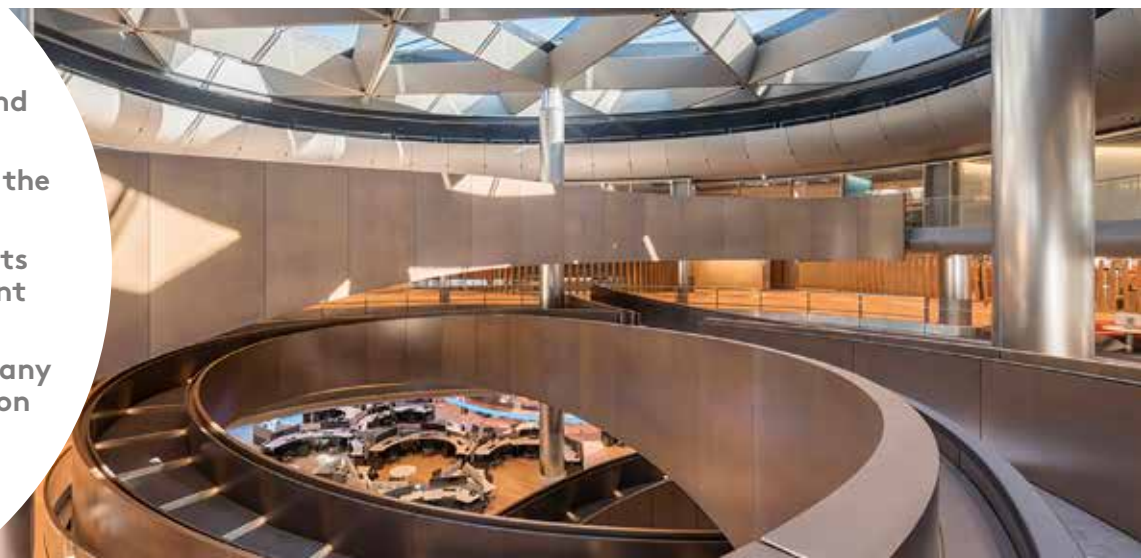
Our ears are constantly exposed to background noise. Ventilation is far too often considered synonymous with irritating background noise. Our air diffusers are thoroughly tested to make sure that they won't convey noise to rooms. Their effective sound attenuating characteristics and flexible location options enable us to minimise the volume of flow-generated sound in all types of rooms.

## No draught

It is neither comfortable nor healthy to spend time, especially longer periods, in environments where there is a cold draught. We have air diffusers for every airflow and air velocity. They are all designed to supply air free of draught. This is by far one of the most important functions of air diffusers for achieving a great indoor climate. Our air diffusers can also be modified to conform to your project needs.

With such a wide range, we have a diffuser to suit almost every application and many diffusers have the flexibility to suit changes in building needs over time.

- 1 High comfort, quiet and free of draught
- 2 Easily adjusted to suit the activity in the room
- 3 Pleasing design that fits in well in many different environments
- 4 High flexibility with many installation and position options







In our factories in the UK and Sweden, automated, flexible manufacturing processes contribute to increased productivity, high and uniform quality.

## Highest product quality for best air quality

### Flexible and Local

Our product range is vast, and well suited to the needs of the UK construction industry. We are continuing our commitment to manufacturing, expertise and R&D inside UK. To meet all project requirements, we also offer selected airborne products from our factories around Europe to offer the widest room products on the market.

### Quality and environmental awareness

Since our aim is to provide fresh air indoors, we also understand the importance of having fresh air outdoors. Our entire organisation is quality and environmentally certified. A product that does not measure up to the right quality is not good for the environment either. Our goal is to be the leading company in our trade in terms of environmentally compatible corporate operations and environmentally compatible products.



Modern laboratories for testing air distribution and flow control products.

### Development

Regardless of how good a product is, it can always be better. This is the goal we have to pursue, in order to continuously be able to supply high-quality products. Modern laboratories with state-of-the-art testing equipment guarantee that our R&D efforts really yield results.





Highest aerodynamic & acoustic performance on the market

The Waterloo small format continuous slot diffuser series CS has for many years set the industry standard in terms of highest aerodynamic and acoustic performance. The CS range is ideally suited to variable volume applications due to its excellent low flow rate air diffusion characteristics and high air handling capacity. The novel air pattern control element design allows any air diffusion pattern, without any change in the facial appearance.

CS diffusers are suitable for all commercial and industrial projects requiring single or multiple slot diffusers in ceilings, bulkheads or sidewall applications.

The CS slot diffuser can integrate into variety of suspended ceiling types and sizes to suit a myriad of architectural designs.

Benefits

Suspended ceiling integration system

- The CS is available with a variety of flange options and special application plate design to suit a large variety of todays ever growing architectural ceilings

Architectural continuous appearance

- Hidden flow control vanes means flow patterns can be adjusted without any break in continuous aesthetic unlike most conventional slot diffusers.
- Mitred corners and curved sections allow the CS slot diffuser to blend into the architecture.

Wide dynamic range

- CS slot diffuser has a low profile air pattern producing a strong Coanda effect meaning it performs well for both low & high flows making it the ideal slot diffuser for VAV systems.

Figure 2.3

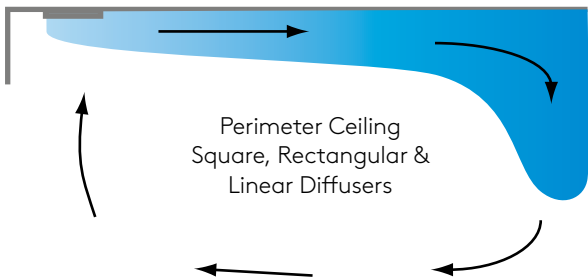
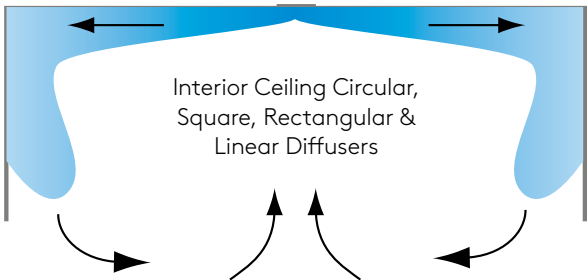


Figure 2.4



Brief Facts

Size

300mm to infinity in 1mm increments

1-8 slots

Airflow

Up to 300 l/s per metre at 35dB(A)

Other

Removable blades & hidden fixings

Accessory

Volume control options:-

Cord operated flap damper

Cord operated opposed blade damper

Quadrant flap damper



## Architecturally designed without compromising performance

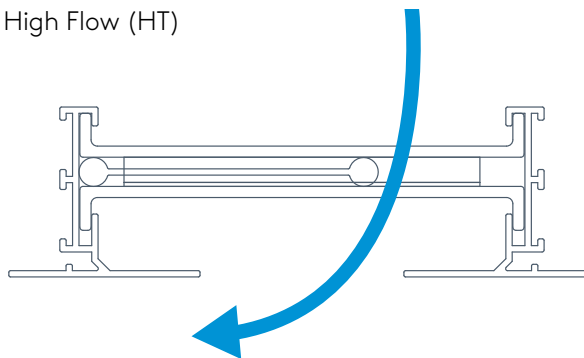
FLOWBAR is an architecturally designed, high capacity linear slot diffuser. It is designed to combine a very high air handling capacity in a single slot

Suitable for either ceiling or sidewall applications, the flexibility of the system can blend into a design or provide contrast with its striking, but simple design.

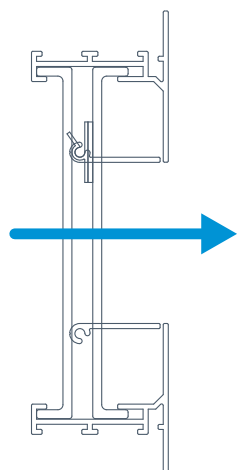
FLOWBAR satisfies both an Engineer's and Architect's requirements for designing an air distribution system that will be efficient in maintaining optimum room air conditions whilst being inconspicuous in appearance.

FLOWBAR is available to be manufactured straight or curved, allowing the creation of stunning visuals that were never before possible.

High Flow (HT)



Jet Flow (JT)



## Benefits

### Complete air flow control

- FLOWBAR has two pattern control options to cover all distribution requirements:-

### High Throw (HT) Series

- Primarily designed for ceiling applications allowing the airstream to be directed left and right for horizontal and vertical airflow. This patented blade creates a high induction rate.

### Jet Throw (JT) Series

- Sidewall mounted flow controllers with a high free area to allow the airstream to be jetted in a horizontal direction. It can also be used in a ceiling to allow extended throws in typical high bay applications to distributed heat and/or cool air vertically.

## Brief facts

### Size

300mm to infinity in 1mm increments

### Airflow

High Throw - Up to 180 l/s per metre at 35dB(A)

Jet Throw - Up to 480 l/s per metre at 35dB(A)

### Other

5 slot widths

2 pattern controller options

### Accessory

Volume control options:-

Cord operated flap damper

Cord operated opposed blade damper

Quadrant flap damper

For complete specifications, visit: [www.swegon.com](http://www.swegon.com)





## The combination that alternates warm with cold

BOC is a unique air diffuser because it can alternate displacement ventilation. The air diffuser is designed for use in buildings with high ceilings (e.g. sports centres, shopping centres, industries, etc) and can be either installed suspended from the ceiling or secured to a wall. In this way, BOC doesn't take up any floor space.

When the room needs to be heated, air is discharged downward through the nozzles in the upper section of the diffuser (mixing ventilation). When the room needs to be cooled, the lower section of the diffuser serves as a displacement air diffuser, supplying air below room temperature at low velocity to the room.

Thanks to the Varizon® air distribution system, the diffusion pattern of the chilled air can also be adjusted to prevent draughts.

## Benefits

### Can alternate between heating and cooling

- When cooling is required BOC serves as a displacement terminal, but when its Booster function is active, it presses hot air downward.
  - Great flexibility. It automatically adjusts itself to meet room requirements.

### Suspended installation

- BOC can be suspended from the ceiling or secured to a wall.
  - More floor space for other uses.

### Joint operation with GOLD

- Swegon's GOLD air handling unit can automatically control the settings of the air terminal devices.
  - High and lasting indoor comfort.

## Brief facts

### Size

Six sizes: Ø200- 630 mm.

### Airflow

Up to 1800 l/s (6500 m³/h).

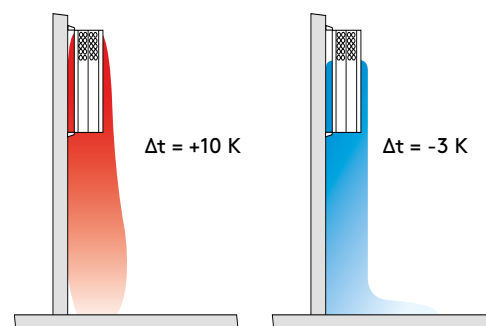
### Other

Adjustable between mixing and displacement function.

### Accessory

VHC control equipment.

For complete specifications, visit:  
[www.swegon.com](http://www.swegon.com)



BOC is both a displacement and mixing air terminal.



## Best comfort at close range

Our displacement terminals are made to effectively discharge air at low velocity. To ensure good comfort in rooms, most of the air terminal devices are equipped with our flexible Varizon® air distribution system, which makes it possible to alter the diffusion pattern. In rooms with high ceilings, substantial energy savings are possible by installing our displacement terminals with Varizon®. Displacement terminals are offered in many different designs for a wide range of airflows.

## Benefits

### Adjustable diffusion pattern

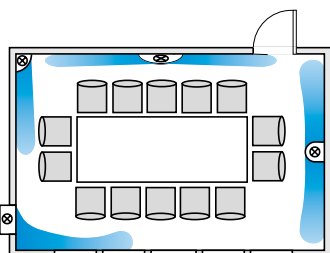
- Varizon®, diffusion system makes adjustment of diffusion air pattern possible.
  - Increased comfort. You can be in the vicinity of the air diffuser and not experience draughts.

### Effective at low air velocity

- Effective air exchange despite low discharge velocity, means lower demands on air handling unit capacity.
  - Good ventilation efficiency with maintained good comfort.
  - Lower installation costs with smaller air handling units.



Maximal flexibility with nozzles in Swegon's Varizon® system.



With Varizon®, the terminal can be set to move the near zone away from critical areas – no risk for draught!

## Brief facts

### Size

12 different models.

### Airflow

Up to 1200 l/s, (4300 m³/h).

### Other

Available in optional colours. Versions suitable both for comfort and industrial ventilation.

For complete specifications, visit: [www.swegon.com](http://www.swegon.com)





## How would you like to have your air today?

Even cool air can be supplied into a room without draught when our nozzle diffusers are used. Fresh air is effectively mixed into the warm air in the room, thus providing more comfortable air exchange. Our unique, aerodynamically designed nozzles make it possible to set the diffusion pattern so that no one will have to feel a cold draught in the room. The diffusion pattern is very simple to alter any time without affecting the sound level, airflow or pressure.

## Benefits

### 100% flexible diffusion pattern

- The nozzles of the air diffuser can be set to provide the diffusion pattern desired. Even completely vertical air discharge is possible for effective heating.
  - Greater flexibility and more effective heating!

### High induction rate

- In a wide flow range, substantially under-tempered air can be mixed into the room air without draught.
  - Better efficiency, cooling capacity and comfort!

### Wide range of products

- Many variants and many customising possibilities
  - This means that you can always find an air diffuser that fits both aesthetically and functionally.

## Brief facts

### Size

17 different models in various sizes

### Airflow

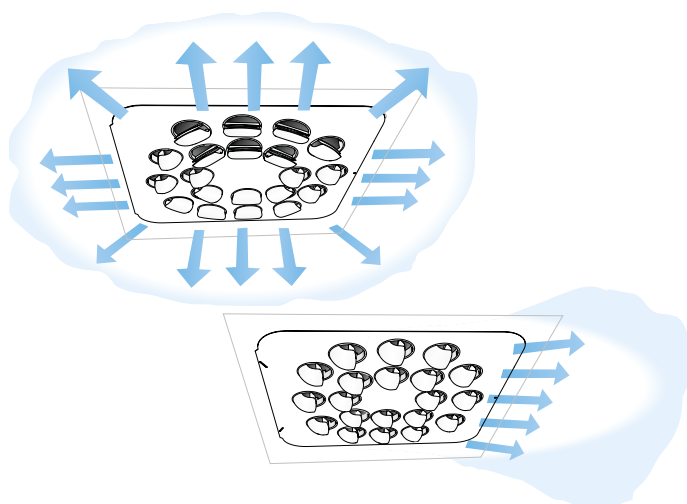
Up to 700 l/s, (5500 m³/h).

### Other

Recommended nozzle settings are specified in each product leaflet.

They are available in optional colours.

For complete specifications, visit: [www.swegon.com](http://www.swegon.com)



Swegon's nozzle diffusers have fully adjustable diffusion pattern that won't affect the pressure or increase the level of flow-generated sound.



# Ceiling diffusers

## ACD

Adjustable Curved Vane Diffusers



- 25 l/s - 475 l/s
- 6 Configurations
- 1 to 4 way blow
- Sizes up to 600 x 600
- Mounting – Ceiling/wall/duct
- High free area

## CS

Aluminium Linear Slot Diffusers



- 20 l/s/m - 300 l/s/m
- 7 Configurations
- 1 to 8 slots
- Mounting – Ceiling/bulkhead/sidewall/suspended ceiling/recessed
- Hidden flow control for a consistent appearance
- Mitred corners & curved options
- Low air pattern profile

## CS B

Barrel Slot Diffusers



- 20 l/s/m - 200 l/s/m
- 4 Configurations
- 1 to 4 slots
- Mounting – Ceiling/bulkhead/sidewall/suspended ceiling/recessed
- High Induction
- Adjustable close control air pattern

## CDD/CRD

Circular ceiling diffuser for supply air.  
Flat upper section



- 20 - 190 l/s
- Diffusion pattern can be blanked off
- Adjustable slot
- Perforated diffuser face = CDD
- Unperforated diffuser face = CDR
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø100-315 mm

## COLIBRI CC/CR

Square ceiling diffuser with square or circular nozzle pattern for supply and extract air



- CC: 15 - 150 l/s | CR: 15 - 155 l/s
- 100% flexible diffusion pattern
- Swirl function as a standard
- Easy access with Quick Access
- Designed for modular suspended ceilings
- Feasible low installation height
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø125-400 mm

## HERON CPD

Perforated Face Diffusers



- 35 l/s - 230 l/s
- 4 Configurations
- 2 to 4 way blow
- Tile replacement modules 300/600/1200
- Extract model with flush face
- Mounting – Ceiling
- Removable faceplate

# Ceiling diffusers

## DF Ceiling

4way Louvre Face Diffuser



- 34 l/s - 492 l/s
- 18 Configurations
- 1 to 4 way blow
- Sizes up to 1200 x 600
- Mounting - Solid & suspended ceilings
- DFA adjustable distribution pattern
- Removable core

## EAGLE CC/CR

Square ceiling diffuser with square or circular nozzle pattern for supply and extract air



- CC/CR 15 - 215 l/s
- 100% flexible diffusion pattern
- Swirl function as a standard
- Easy access with Quick Access
- Designed for modular suspended ceilings
- Feasible low installation height
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø125-400 mm

## FALCON C

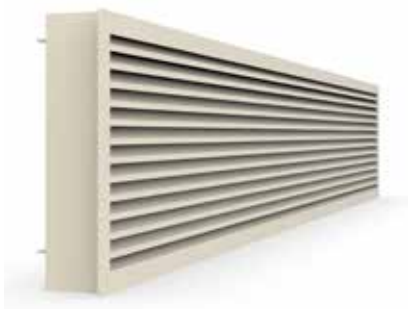
Adjustable, circular ceiling air diffusers for supply air



- 20 - 625 l/s
- Used for heating and cooling.
- Manual resetting of diffusion for size 125-500.
- Motorized resetting of diffusion for size 315-500.
- Can be used in combination with the ALS commissioning box.
- Connection sizes: Ø125-500 mm

## FCD

Fan Coil Diffuser



- 75 l/s/m - 325 l/s/m
- 2 Configurations
- 1 or 2 way blow
- Tile replacement & continuous lengths
- High Induction
- Mounting - Solid & suspended ceilings
- Quick release core

## MC Ceiling

Small Format Diffusers



- 18 l/s - 420 l/s
- 4 standard duct sizes
- Mounting - Ceiling/Duct
- Damper options available
- Adjustable core for horizontal & vertical distribution

## WR Ceiling

Large Format Circular Diffusers



- 50 l/s - 940 l/s
- 8 standard duct sizes
- Mounting - Ceiling/Duct
- Damper options available
- Adjustable core for horizontal & vertical distribution

# Ceiling diffusers

## KITE C

Square ceiling diffuser for supply and extract air



- 20 - 174 l/s
- Flush design
- Fast and easy installation with easy Access
- Designed for modular suspended ceilings
- Feasible low installation height
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø125-315 mm

## HERON KRCP Ceiling

Hygiene Perforated Face Diffusers



- 140 l/s - 220 l/s
- 2 Configurations
- 1 to 4 way blow with on site adjustment
- Tile replacement module 600 x 600
- Hygiene anti-smudge frame for restaurant & kitchen application
- Mounting - Ceiling
- Removable faceplate

## CS L

Aluminium Linear Slot Diffusers



- 40 l/s/m - 170 l/s/m
- 6 Configurations
- 2 to 4 slots
- Mounting - Ceiling/suspended ceiling/recessed
- Hidden flow control for a consistent appearance
- Mitred corners & curved options

## LCT Ceiling

Lay on Ceiling Tile Diffuser



- 60 l/s - 150 l/s
- 3 sizes up to 600 x 600
- Mounting - Lay on ceiling tile
- Utilises 20% free area ceiling tile
- Hidden diffuser

## LOCKZONE Ceiling

Square ceiling diffuser for supply and extract air



- 20 - 220 l/s
- Guide vane perforations in rotation patterns
- Designed for flush ceiling mounting
- Easy access with Quick Access
- Designed for modular suspended ceilings
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø125-400 mm

## LPA

Circular ceiling air diffuser for supply or extract air



- 25 - 280 l/s
- Guide vane perforations in rotation pattern
- Designed for flush mounting in plasterboard ceiling
- Easy to install
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø160-400 mm

## PELICAN CS

Square perforated ceiling air diffuser for supply air



- 15 - 225 l/s
- Adjustable air distribution pattern
- Easy access with Quick Access
- Feasible low installation height
- Large throttling range
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø125-400 mm



# Ceiling diffusers

## SDACH Ceiling

High Capacity Swirl diffuser



- 20 l/s - 1000 l/s
- 3 Configurations
- Fixed vane/adjustable vane or linked adjustable vane
- 6 standard duct sizes
- High Volume capacity
- Mounting – Ceiling/duct

## SDACH/T Ceiling

Thermally Actuated Swirl Diffuser



- 86 l/s - 694 l/s
- 3 Configurations
- Self powered wax motor
- Heating & cooling function
- Installation heights between 2.5m - 20m
- 6 standard duct sizes
- High Volume capacity
- Mounting – Ceiling/Duct
- Sustainable building product

## SDF S Ceiling

Square Fixed Blade Swirl



- 10 l/s - 275 l/s
- Tile replacement modules 300/500/600/750
- 6 standard duct sizes
- Mounting – Suspended ceiling
- Extended collar option

## SDF S-P Ceiling

Perforated Face Swirl Diffusers



- 20 l/s - 225 l/s
- 2 Configurations
- Tile replacement modules 300/500/600/750
- 6 standard duct sizes
- Mounting – Suspended ceiling
- Perforated aesthetic face
- High induction

## SDF S-LCT Ceiling

Perforated Tile Concealed Swirl Diffusers



- 30 l/s - 220 l/s
- Modular 600 x 600 size
- 5 standard duct sizes
- Mounting – Lay on ceiling tile
- Hidden diffuser
- For mounting behind a >35% free area tile
- High induction

## SDV S Ceiling

Vane Swirl Diffusers



- 25 l/s - 200 l/s
- 2 configurations
- Tile replacement modules 300/400/500/600/620/800/820
- Mounting – Suspended ceiling
- Adjustable barrel deflectors
- High Induction

# Ceiling diffusers

## SWIFT Ceiling

Perforated Air Diffuser with High Capacity



- 55 - 150 l/s
- Designed for "flush" ceiling mounting
- Rotational air discharge pattern
- Easy access with Quick Access
- Designed for modular suspended ceilings
- Can be used in combination with the ALS commissioning box
- Connection sizes 200Ø - 315 mm

## FLOWBAR

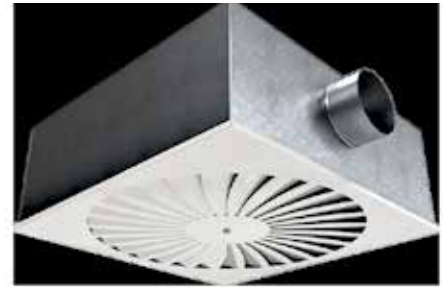
High Capacity Slot Diffusers



- High Throw 36 l/s/m - 180 l/s/m
- Jet Throw 31 l/s/m - 480 l/s/m
- 8 Configurations
- 5 slot widths
- Mounting - Ceiling/Bulkhead/sidewall/recessed
- Architectural appearance
- Mitred corners & curved options
- 8 different fixing options

## SD5 S Ceiling

Ceiling Swirl Diffuser - Fixed Air Pattern



- 26 l/s - 190 l/s
- Tile replacement module 600 x 600
- 4 standard sizes
- Mounting - Suspended ceiling
- Fan swirl

## AIRCELL M

Aircell 4 Way Louvre Face Diffuser



- 34 l/s - 380 l/s
- Injection moulded Polymer diffuser
- 4 standard sizes
- Mounting - Ceiling
- 4 way air distribution
- Polymer plenum box
- Self-coloured RAL 9010 white

## AIRCELL 2000

Aircell Architectural 4 Way Diffusers



- 25 l/s - 220 l/s
- Injection moulded Polymer diffuser
- 2 standard sizes
- Mounting - Ceiling
- 4 way air distribution
- Polymer plenum box
- Self-coloured RAL 9010 white

## VA

Supply Valves



- 5 l/s - 120 l/s
- 5 standard duct sizes
- Mounting - Ceiling/duct/wall
- Steel mounting subframe
- Adjustable core
- Range of RAL colours available

# Ceiling Diffusers - Exposed

## COLIBRI F

Circular Ceiling Air Diffuser for Supply or Extract Air



- 10 - 260 l/s
- 100% flexible diffusion pattern
- Swirl function as a standard
- Removable damper
- Easy to dismantle diffuser front plate
- Can be used as an extract air diffuser
- Connection sizes: Ø100-400 mm

## EAGLE F

Circular Ceiling Air Diffuser for Supply or Extract Air



- 10 - 350 l/s
- 100% flexible diffusion pattern
- Swirl function as a standard
- Removable damper
- Easy to dismantle diffuser front plate
- Can be used as an extract air diffuser
- Connection sizes: Ø100-400 mm

## EAGLE S

Circular Ceiling Diffuser with Nozzles for Supply Air



- 20 - 300 l/s
- 100% flexible diffusion pattern
- Swirl function as a standard
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø100-400 mm

## EXP F

Circular Extract Air Diffuser for Suspended Mounting



- 10 - 425 l/s
- Extract air diffuser
- Fast and simple installation and commissioning
- Spring-loaded Quick Access front plate
- Removable damper
- Can easily be converted to a supply air diffuser. Perforated front is replaced with a nozzle front.
- Can be supplied in a painted galvanized design
- Connection sizes: Ø100-400 mm

## FALCON High Flow

Circular Ceiling Air Diffuser for Supply Air



- 300 - 1500 l/s
- Used for cooling (horizontal spread) and heating (vertical spread).
- Manual resetting of diffusion as standard, motorized as accessory.
- Same total pressure drop for horizontal and vertical diffusion.
- Connections sizes: Ø315-500 mm

## LOCKZONE Free

Circular Ceiling Diffuser for Supply Air in Rooms without Suspended Ceiling



- 30 - 230 l/s
- Guide vane perforations, LockZone
- Variant for flow-through installation.
- Short throw.
- Removable damper.
- Connection sizes: Ø125-315 mm

## FALCON C

Circular Ceiling Diffuser with Nozzles for Supply Air



- 20 - 625 l/s
- Used for heating and cooling.
- Manual resetting of diffusion for size 125-500.
- Motorized resetting of diffusion for size 315-500.
- Can be used in combination with the ALS commissioning box.
- Connection sizes: Ø125-500 mm



# Ceiling Diffusers - Exposed

## MC Ceiling

Small Format Diffusers



- 18 l/s - 420 l/s
- 4 standard duct sizes
- Mounting - Ceiling/Duct
- Damper options available
- Adjustable core for horizontal & vertical distribution

## WR Ceiling

Large Format Circular Diffusers



- 50 l/s - 940 l/s
- 8 standard duct sizes
- Mounting - Ceiling/Duct
- Damper options available
- Adjustable core for horizontal & vertical distribution

## SDF C Ceiling

Fixed Blade Swirl Diffusers



- 10 l/s - 275 l/s
- 6 standard duct sizes
- Mounting - Solid ceiling/duct
- Extended collar option

## SDACH/T Ceiling

Thermally Actuated Swirl Diffuser



- 86 l/s - 694 l/s
- 3 Configurations
- Self powered wax motor
- Heating & cooling function
- Installation heights between 2.5m - 20m
- 6 standard duct sizes
- High Volume capacity
- Mounting - Ceiling/Duct
- Sustainable building product

## SDV C Ceiling

Vane Swirl Diffusers



- 25 l/s - 200 l/s
- 2 configurations
- 7 sizes
- Mounting - Solid ceiling/duct
- Adjustable barrel deflectors
- High Induction

## SD5 C Ceiling

Ceiling Swirl Diffuser - Fixed Air Pattern



- 26 l/s - 190 l/s
- 4 standard sizes
- Mounting - Solid ceiling/duct
- Fan swirl

# Wall Diffusers

## AIRLINE Series

Series of Architectural Fixed Blade Bar Grilles



- 50 l/s/m - 800 l/s/m
- 12 configurations
- Mounting – Sidewall/bulkhead
- Continuous appearance in multisections
- Curved options available
- Opposed blade damper option

## PLASTERLINE Series

Series of Plaster Frame Architectural Bar Grilles



- 50 l/s/m - 800 l/s/m
- 12 configurations
- Mounting – Sidewall/bulkhead
- Continuous appearance in multi-sections
- Full plaster flange
- Architectural detail
- Opposed blade damper option

## H Series

Adjustable blade bar grilles



- 25 l/s - 2000 l/s
- 4 configurations
- Mounting – Sidewall/bulkhead/duct
- High free area
- Adjustable blades to allow jet spread/deflection
- Opposed blade damper option

## HM Series

Adjustable Blade Grilles, Lever Operated



- 4 configurations
- Mounting – Sidewall/bulkhead
- Manually operated face lever
- Fully open to closed damper facility
- 5 standard sizes

## FLOWBAR JT

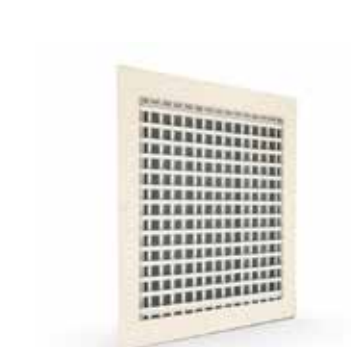
Jet Throw Slot Diffusers



- Jet Throw 31 l/s/m - 480 l/s/m
- 4 Configurations
- 5 slot widths
- Mounting – bulkhead/sidewall/recessed
- Architectural appearance
- Mitred corners
- 8 different fixing options

## AIRCELL SD

Aircell Adjustable Blade Grille



- 25 l/s - 400 l/s
- 2 configurations
- Injection moulded Polymer diffuser
- Mounting – Sidewall/bulkhead
- High free area
- Adjustable blades to allow jet spread/deflection

# Duct Diffusers

## IBIS

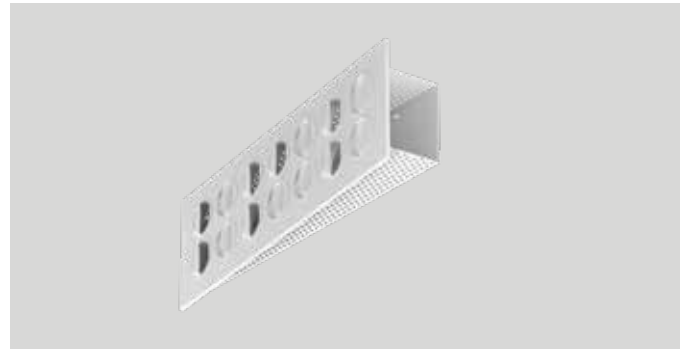
Duct Air Diffuser with Nozzles for Supply Air



- 30 - 900 l/s
- 100% flexible diffusion pattern
- Suspended installation
- 1500 mm long module
- Connection sizes: Ø160-630 mm
- Maximum active length: 4500 mm

## KDY

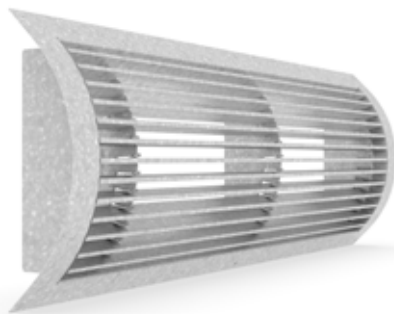
Duct Air Diffuser for Mounting Directly in Ventilation Ducts.



- 20 - 140 l/s
- 100% flexible diffusion patterns
- Easy to install
- Is available both for circular and rectangular ducts
- Is specially designed for rebuilding and extension repair

## URBAN

Urban Grilles



- 49 - 74% free area
- 3 styles
- 8 configurations
- Mounting - Duct
- Curved to match circular & oval galvanised steel ducts
- Duct sizes 160 - 900
- Mill finish
- Opposed blade damper option

## RV

Adjustable Duct Grilles



- 50 l/s - 850 l/s
- 2 configurations
- Mounting - Duct
- Tapered to match circular & oval galvanised steel ducts
- Duct sizes 125 - 1500
- Mounting gasket
- Adjustable blades
- Opposed blade damper option



# Extract Air Diffusers

GC5	3H	PER	ALF
Eggcrate Grilles	Exhaust Grilles	Perforated Face Grilles	Linear Grilles
			
<ul style="list-style-type: none"> <li>Up to 3880 l/s</li> <li>3 configurations</li> <li>Mounting – Ceilings/sidewall/duct</li> <li>Fixed &amp; removable core options</li> <li>High free area</li> <li>Opposed blade damper option</li> </ul>	<ul style="list-style-type: none"> <li>Up to 3630 l/s</li> <li>3 configurations</li> <li>Mounting – Ceilings/sidewall/duct</li> <li>Fixed &amp; removable core options</li> <li>High free area</li> <li>Opposed blade damper option</li> </ul>	<ul style="list-style-type: none"> <li>Up to 2200 l/s</li> <li>Mounting – Ceilings/sidewall/duct</li> <li>Fixed &amp; removable core options</li> <li>Medium/high free area</li> <li>Opposed blade damper option</li> </ul>	<ul style="list-style-type: none"> <li>Up to 400 l/s/m</li> <li>Mounting – Ceilings/sidewall/bulkhead</li> <li>45° blades for limited void vision</li> <li>Opposed blade damper option</li> </ul>

VB	FVB	VC
Exhaust Valves	VAF & VBF – Fire Rated Valve	Exhaust Tamper-proof Valves
		
<ul style="list-style-type: none"> <li>5 l/s - 120 l/s</li> <li>5 standard duct sizes</li> <li>Mounting – Ceiling/duct/wall</li> <li>Steel mounting subframe</li> <li>Adjustable core</li> <li>Range of RAL colours available</li> </ul>	<ul style="list-style-type: none"> <li>5 l/s - 120 l/s</li> <li>5 standard duct sizes</li> <li>Mounting – Ceiling/duct/wall</li> <li>Steel mounting subframe</li> <li>Can be used to provide up to 60 minutes resistance to fire to BS 476</li> </ul>	<ul style="list-style-type: none"> <li>5 l/s - 80 l/s</li> <li>4 standard duct sizes</li> <li>Mounting – Ceiling/duct/wall</li> <li>Steel mounting subframe</li> <li>Adjustable core</li> <li>Tamper proof locking screw</li> <li>RAL 9010 white</li> </ul>

# Extract Air Diffusers

## GRC

Circular Wall/Ceiling Grill for Extract and Transfer Air



- 60 - 1100 l/s
- 90% free area
- Manages large airflows
- Spigot connection
- Connection sizes: Ø160–630 mm

## PELICAN CE HF

Square Perforated Ceiling Air Diffuser for Extract Air



- 18 - 1700 l/s
- Easy access with Quick Access
- Manages large extract airflows
- Designed for "flush" ceiling mounting
- Designed for modular suspended ceilings
- Can be combined with ALS commissioning box
- Alternatively for centralized extract air with separate silencer and damper
- Connection sizes: Ø160-400 mm

## AIRCELL A

Aircell Range of Supply & Exhaust Grilles



- 25 l/s - 145 l/s
- Injection moulded Polymer diffuser
- 5 standard sizes
- Mounting – Sidewall
- 45° blades
- Self-coloured RAL 9010 white

## AIRCELL G

Aircell Range of Supply & Exhaust Grilles



- 25 l/s - 300 l/s
- Injection moulded Polymer diffuser
- 5 standard sizes
- Mounting – Sidewall
- 0° blades
- Self-coloured RAL 9010 white

## AIRCELL E

Aircell Range of Supply & Exhaust Grilles



- 25 l/s - 1200 l/s
- Injection moulded Polymer diffuser
- 6 standard sizes
- Mounting – Ceiling/Sidewall
- High free area
- Self-coloured RAL 9010 white

# Displacement Units

## BOC Varizon®

Robust Industrial Displacement Diffuser



- 160 - 1600 l/s
- Varizon® air diffusion system
- For rooms heated and cooled by air
- Electric actuator or manual setting
- For rooms with high ceiling heights
- Requires no floor surface
- Connection sizes: Ø200-630 mm

## DBC Varizon®

Curved Face Displacement unit with Adjustable Diffuser Pattern



- 75 - 880 l/s
- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms where high demands are placed on design and finish
- Measurement tapping
- Connection sizes: 200-400 mm, 200x600-300x600 mm

## DCC

Circular Displacement Unit for Small Airflows



- 15 - 25 l/s
- The diffusers are mounted under chairs in the vertical step or in the horizontal plane of the floor
- Fixed radial diffusion pattern
- Pressure raising insert

## DCP Varizon®

Circular Displacement Unit with Adjustable Diffusion Pattern



- 60 - 1200 l/s
- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms
- Measurement tapping
- Connection sizes: Ø125-630 mm

## DHC Varizon®

Half-Circular Displacement Unit with Adjustable Spread Pattern



- 25 - 1750 l/s
- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms
- Measurement tapping
- Connection sizes: Ø125-800 mm



# Displacement Units

## DIR Varizon®

Compact Displacement Unit for Stud Walling with Adjustable Diffuser Pattern



- 30 - 150 l/s
- Adjustable diffusion pattern and near zone
- For flush mounting in walls
- Well-suited for all types of rooms
- Measurement tapping
- Connection sizes: Ø100-200 mm

## DPG

Under Seat Circular Displacement Unit for Small Airflows



- 7 - 16 l/s
- The diffusers are mounted under chairs in the vertical step
- Fixed diffusion pattern
- Pressure raising insert
- Maintenance free
- Suitable also as traditional wall diffuser near ceiling

## DRG

Under Seat Rectangular Displacement Unit for Small Airflows



- 10 - 20 l/s
- The diffusers are mounted under chairs in the vertical step
- Adjustable diffusion pattern and near zone

## DRI Varizon®

Rectangular Displacement Unit with Adjustable Diffusion Pattern



- 70 - 1150 l/s
- Adjustable diffusion pattern and near zone
- For flush mounting in walls
- Well-suited for all types of room
- Measurement tapping
- Connection sizes: Ø200-400 mm, Ø250x800 mm

## DVC Varizon®

Corner Displacement Unit with Adjustable Diffusion Pattern



- 25 - 580 l/s
- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms
- Measurement tapping
- Connection sizes: Ø125-400 mm
- 25 to 580 l/s

# Transfer Units

## CIRCO

Sound Attenuating Transfer Units



- < 55 l/s
- For transferring air through walls
- Circular installation opening
- Mounting frame integrated in the transfer diffuser
- Suitable for use in rooms with normal sound-attenuating requirements

## ORTO

Sound Attenuating Transfer Units



- <115 l/s
- For transferring air through walls
- Rectangular installation opening
- Suited for installation above doors
- Suitable for use in rooms with normal sound-attenuating requirements

## NS

Non-Vision Transfer Grilles



- Up to 450l/s
- 3 configurations
- Mounting – Door/sidewall/partition
- No sight from room to room
- Core only option
- Matching rear flange option

## DSR

Acoustic Air Transfer Grilles



- Up to 450l/s
- 3 configurations
- Mounting – Door/sidewall/partition
- Reduction in noise transfer 'cross-talk'
- Matching rear flange option

## FB

Fire Block and Press Steel Grille



- Up to 450l/s
- 2 configurations
- Mounting – Door/sidewall
- FB60 can be used to provide up to 60 minutes resistance to fire to BS 476
- FB120 can be used to provide up to 120 minutes resistance to fire to BS 476
- Steel cover grilles
- No maintenance
- High free area

## AIRCELL T

Aircell Polymer Transfer Grille

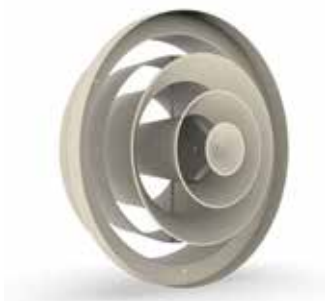


- Up to 135 l/s
- Injection moulded Polymer diffuser
- 5 standard sizes
- Mounting – Doors/Sidewall
- 45° blades
- Self-coloured RAL 9010 white

# Jet Diffusers

## RWH

### Hi-Flo Jet Diffusers



- 100 l/s - 600 l/s
- 2 configurations
- 4 standard sizes
- Mounting – High level/Sidewall/Duct
- Easy to install & adjust
- Rotatable core for Jet or diffused distribution

## EBD

### Eyeball Diffusers



- 13 l/s - 200 l/s
- 7 standard duct sizes
- Mounting – High level/Sidewall/Duct
- 360° directional adjustment
- Excellent throw penetration
- Motorised version for heating & cooling

## CJD

### Cylinder Jet Diffuser



- 100 l/s - 940 l/s
- 12 standard sizes
- Mounting – High level/Sidewall/Duct
- High volume capacity
- Excellent throw penetration
- Opposed blade damper option
- Motorised version for heating & cooling

# Floor Diffusers

## LOCKZONE Base

Steel Vortex Air Diffuser for Raised Floors



- 10 - 60 l/s
- Robust sheet steel design
- Can be used in combination with ALS commissioning box with damper function or dirt trap LOCKZONE T
- Connection sizes: Ø100-200 mm

## WFO Base

Poly Carbonate Floor Swirl Diffusers



- 10 l/s - 40 l/s
- 4 configurations
- Mounting - floor
- Displacement or Induction core
- Pressurised void or duct system
- Commissioning damper
- Tested to BS EN 13264:2001 - Structural classification 'light duty'

## AIRLINE Base

Light Duty Floor Grilles



- Removable core for easy access & cleaning
- Mounting - Floor
- Recessed frame detail
- 'Non-trip' flush mounted
- Tested to BS EN 13264:2001 - Structural classification 'light duty'
- Durable hardwearing PPC available

## AIRLINE HD Base

Heavy Duty Floor Grilles



- 100 l/s - 500 l/s
- Mounting- Raised access floors
- Match tile thickness's 30mm-50mm
- 'Non-trip' flush mounted
- Tested to BS EN 13264:2001 - Structural classification 'Heavy & Extra Heavy Duty'
- Durable hardwearing PPC available



## Reinforced Terminals

### RAVEN L, M, H

Supply and Extract of Air in Places Where Security is a Priority



- 10 l/s - 450 l/s
- 3 configurations
- Mounting – Sidewall
- Anti-ligature
- Tamper proof
- Type H meets MOJ specification for cell ventilation

### K Series

Heavy Duty Adjustable Blade Grilles



- 50 l/s - 2720 l/s
- 4 configurations
- Mounting- Wall/Duct
- Heavy duty robust construction
- Vibration free vane fixing
- Suitable for high velocity

## Clean-Room Diffusers

### CDH/CLH

Hepa Filter Ceiling Diffuser



- H14 Class, max 120 l/s
- Rectangular or circular duct connection
- Equipped with micro-filter with gel, rubber seal
- Painted interior
- Measurement tappings for dip test and pressure measurement across the filter
- Four sizes

### LFF

Laminar Flow Diffusers



- 20 l/s - 200 l/s
- 2 configurations
- Mounting - Ceiling
- Modular sizes 600/900/1200
- Removable face for maintenance/cleaning

# Metal louvres

## LOUVRE 100 Series

100 Series - 100mm Pitch Metal Louvre



- 43% Free Area
- C3 @ 1.5m/s Weather Rating
- Cd Coefficient 0.207

## LOUVRE 75 Series

75 Series - 75mm Pitch Metal Louvre



- 50% Free Area
- C3 @ 1.5m/s Weather Rating
- Cd Coefficient 0.229

## LOUVRE 50 Series

50 Series - 50mm Pitch Metal Louvre



- 47% Free Area
- C3 @ 1.5m/s Weather Rating
- Cd Coefficient 0.224

## LOUVRE 38 Series

38 Series - 38mm Pitch Metal Louvre



- 35% free Area
- Flange, channel & glazing frames

## LOUVRE Slimtype

Designed to fit into Window/Curtain Wall Systems for use in Sheltered Applications.



- 40% Free Area
- C4 @ 0.5m/s Weather Rating
- Cd Coefficient 0.189

## LOUVRE NAL Series

NAL - Acoustic Louvre



- 23% free Area
- Transmission loss & Noise reduction
- Cd Coefficient 0.206

## LOUVRE DB50 Series

'A' Class Slim Double Bank Storm Louvre



- 43% Free Area
- A3 @ 2.4m/s Weather Rating
- Cd Coefficient 0.22

## LOUVRE SLH-S Series

Metal Storm Louvre



- 53% Free Area
- B2 @ 1.5m/s Weather Rating
- Cd Coefficient 0.342

## LOUVRE SLV-S Series

'A' Class Vertical Blade Storm Louvre



- 58% Free Area
- A2 @ 3.5m/s Weather Rating
- Cd Coefficient 0.364



## Slim sightlines. Class leading performance.

Vengen<sup>28</sup> is a high quality, double glazed and thermally broken aluminium louvre window system offering a unique solution for both natural and smoke ventilation applications.

## An evolution in louvre design.

Incorporating several new features and state-of-the-art design, the Vengen<sup>28</sup> offers natural and smoke ventilation, in either manual or motorised operation, in bespoke sizes and in a wide range of attractive finishes. It's also designed for easy installation, and even easier glass replacement.

In today's environmentally conscious economy, Vengen<sup>28</sup> provides a natural, cost effective and low carbon solution to ventilation in modern buildings. It represents the culmination of years of design excellence from Naco, one of the world's leading suppliers of creative air solutions.

Taken together, it gives you the total ventilation – and architectural – solution.

## Benefits

- Bespoke design
- Exceptionally high aerodynamic free area
- Class-leading performance
- Ease of installation/replacement
- Total control over the internal environment
- Quality
- Comfort
- Improved looks



# Glass louvres

## VENGEN<sup>28</sup> Louvre Window

Vengen<sup>28</sup> - High quality, double glazed and thermally broken aluminium louvre window system



- Natural ventilator
- 44%-70% free area
- Sizes up to 1500 (w) x 3350 (h)
- Wide choice of glass
- Manual handle or actuated operation
- Acoustic rating up to 38dB (Rw)
- Thermal value U up to 2.1w/m<sup>2</sup>K

## WEATHERBETA Louvre

Weatherbeta - Single Glazed Glass Louvre



- Weatherbeta retains its market lead in single glazed louvre design and is commonly fitted within a wide variety of building structures and window/ glazing systems.
- Standard handle is for hand/pole operation or drop rod.
- Windows are available with 230v electric linear motors (LMC) or with fail safe 24 volt AC/DC actuators. Blades are linked internally and controlled by one handle.
- For LMC and rotary actuated windows, extra banks of blades may be linked externally by their handles for control by one actuator.

## VENGEN<sup>28</sup> NSHEV

Vengen<sup>28</sup> NSHEV - Natural smoke, heat exhaust Ventilator



- UK CA Marked
- EN 12101-2 tested
- Sizes up to 1500 (w) x 2000 (h)
- 24V D&H actuator
- Acoustic rating up to 38dB (Rw)
- Thermal value U up to 2.1w/m<sup>2</sup>K



## Notes

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## Notes

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## Notes

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Feel good **inside**

