Product spec >>>

> Series SWF - Fixed Blade Swirl Diffusers
> Series SWA - Adjustable Blade Swirl Diffusers
Product Overview

Designed to produce a swirling, turbulent flow of air, swirl diffusers are most useful in environments where supplied and resident air need to be mixed quickly.

This makes them especially suitable for office blocks, airport terminals and other areas people may be present for an extended period of time. Places where excessive draughts would cause discomfort.

Options & accessories

- Polyester powder coating (SWF only)
- Plenum boxes.
  - Side or top entry
  - Fire rated
  - Acoustically lined
  - Painted (Internal / external)
  - Single blade dampers for volume control

Stock product

All sizes of SWF and SWA diffuser are held in stock in the UK for next day delivery (provided no extra work is required).

With several hundred units in each size kept in stock, we are able to supply even the largest orders quickly and efficiently.

View the stock tab on the swirl diffuser page of the HVC website to see up to date stock levels.

Models available

SWF - Fixed blade swirl

4 core diameters available
All set in 595mm x 595mm overall size tile
Centre screw port to allow plenum box mounting
Steel construction

SWA - Adjustable blade swirl

538mm core diameter
24 individually adjustable blades
Set in 595mm x 595mm overall size tile
Centre screw port to allow plenum box mounting
Steel plate and blades, plastic blade mounts
12 and 36 slot models coming soon
**Series SWF / SWA**
Fixed / Adjustable blade swirl diffusers

**SWF Fixed Swirl Diffuser Models**

- **Size 1**
- **Size 2**
- **Size 3**
- **Size 4**
SWA Adjustable Swirl Diffuser Models

Size 1
24 slot

12 and 36 slot models coming soon

Options

Polyester powder coated finishes

Polyester powder coating is available on all SWF models.

Giving both an exceptional appearance and a protective coating to units, powder coating is a two stage process involving an electrically charged powder being sprayed onto a product with the opposite charge.

This ensures the powder adheres well to the unit, which is then baked for around 15 minutes, giving a tough, even coating.

All RAL and BS colours available.

Not available with SWA diffusers due to plastic parts.
**Plenum boxes**

Designed to facilitate the fitment of ducting to a grille or diffuser.

HVC plenum boxes are available in top or side entry models with one or multiple spigots. Fire rated and acoustically lined variants are also available.

**Fire rated plenums**

Constructed from thicker steel and with a S200 in duct fire damper welded inside, fire rated plenum boxes give fire protection immediately behind the air terminal.

**Acoustic lining**

Boxes can be lined internally or externally with specialist sound absorbing foam. This helps to limit the amount of sound transfer through ductwork.

**Single blade dampers**

Fitted into plenum spigots, single blade dampers are a cost effective volume control damper.

Using a single circular blade within a cylindrical housing, the damper is operated by way of aluminium locking quadrant or plastic handle. Both methods have an integrated blade locking mechanism and position indicator.

**Fitting**

All plenum boxes to suit swirl diffusers have a central bar running through the span of the box, with a nutsert located centrally.

The swirl is fitted to the box using a cross headed bolt (supplied) which is inserted through the fixing hole in the centre of the diffuser, and into the nutsert.

By tightening the bolt, the swirl is pulled up until it sits on the box flanges.
Installation instructions

Lay in

Used with T bar type ceiling systems, the diffuser is simply laid into the prepared grid and connected to ductwork by way of flexible ducting onto the diffuser spigot.

Plenum box and drop rods

Drop rod brackets are available with plenum boxes, to facilitate fitment into drop rod ceiling systems.

Brackets protrude 40mm from the side of the box, and are punched with a 12mm hole in the centre as standard.

Drop rods and bolts supplied by others.
Series SWF / SWA
Fixed / Adjustable blade swirl diffusers

Swirl diffuser ordering codes

SIZE

SERIES

FINISH
RAL 9010 (Std)......RAL9010
Powder coat.............RAL/BS

Please note
Plenum box size can be stated
to suit SWF/SWA rather than
size in mm
Grilles & diffusers
Louvres
Fire / Fire smoke dampers
Volume control dampers

All details within this brochure are correct at time of going to print. However HVC’s policy is one of continual product development. The right is reserved to alter any details published in this brochure without any prior notice. Any changes will appear on www.h-v-c.com as soon as is practically possible.

All information in this brochure is designed to be used for informative purposes only. HVC will not be legally bound by anything contained within this publication, or any other information distributed.

All references to companies not part of the HVC group of companies are used with the permission of their respective owners.