Incorporating

Swirl diffusers - Fixed / Adjustable

- Fixed and adjustable models
- All in 595mm x 595mm tile replacer plate
- Stock product
- 360° throw to ensure good mix of supplied and resident air
- Factory fitted plenums with a range of options

Series SWF / SWA
Swirl diffusers - Fixed / Adjustable

SW: February 2017
Series SWF / SWA

Series SW swirl diffusers are very effective supply units, designed to be mounted into a lay-in grid system.

SWF fixed blade swirls are manufactured from a single sheet of steel, sized 595mm x 595mm overall, with four different core sizes to suit most airflow requirements.

SWA adjustable blade swirls have a fascia formed from a single sheet of steel, but also use individually adjustable blades mounted on moulded plastic holders to allow throw adjustment.

Both types can be factory fitted with plenum boxes, which also have a range of options including acoustic/thermal lining and spigot mounted single blade volume control dampers.

SWF design features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material</strong></td>
<td>Steel</td>
</tr>
<tr>
<td><strong>Blades</strong></td>
<td>Straight edge, fixed</td>
</tr>
<tr>
<td><strong>Overall size</strong></td>
<td>595mm x 595mm</td>
</tr>
<tr>
<td></td>
<td>Suitable for lay in ceilings</td>
</tr>
<tr>
<td><strong>Core diameters</strong></td>
<td>254, 356, 457 and 535mm</td>
</tr>
<tr>
<td><strong>Mass/unit</strong></td>
<td>3.5kg</td>
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SWA design features

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<th>Feature</th>
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<tbody>
<tr>
<td><strong>Material</strong></td>
<td>Steel fascia and blades</td>
</tr>
<tr>
<td></td>
<td>Moulded plastic blade mounts</td>
</tr>
<tr>
<td><strong>Blades</strong></td>
<td>Black, individually adjustable</td>
</tr>
<tr>
<td><strong>Overall size</strong></td>
<td>595mm x 595mm</td>
</tr>
<tr>
<td><strong>Core</strong></td>
<td>12, 24 and 36 slot variants</td>
</tr>
<tr>
<td><strong>Mass/unit</strong></td>
<td>3.5kg</td>
</tr>
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</table>

Quality assurance

HVC Supplies (Stourbridge) Ltd is an ISO 9001 certified company.
Series SWF / SWA
Swirl diffusers - Fixed / Adjustable

Technical drawings - SWF

SWF 254 Ø

SWF 356 Ø

SWF 456 Ø

SWF 535 Ø
Technical drawings - SWA

SWA 12 slot

SWA 24 slot

SWA 36 slot
Plenums

Swirl diffusers are normally supplied factory fitted with plenum boxes to facilitate connection to ductwork.

Boxes are fitted with an internal runner holding a nutsert, a long bolt (supplied by HVC) is fitted through a hole in the centre of the swirl diffuser, and screwed into the nutsert.

By tightening the bolt, the swirl is pulled up securely to the box.

Plenums are available with the following range of options:

- Series SBD single blade volume control dampers mounted in the box spigot.
- Internal acoustic lining.
- Matt black internals.

**Important note:** Swirl diffuser plenum boxes are manufactured with side entry spigots as standard. Models with top entry spigots can be manufactured on request.
Finish

RAL9010 held in stock
Polyester powder coating to any RAL or BS colour

Ordering codes

Example

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</thead>
<tbody>
<tr>
<td>1</td>
<td>SWF</td>
<td>254 Ø</td>
<td>RAL9010</td>
<td>SWB</td>
<td>200 Ø</td>
</tr>
</tbody>
</table>

Swirl diffuser ordering codes

1) Quantity
2) Series
   - SWF: Fixed swirl diffuser
   - SWA: Adjustable swirl diffuser
3) Core diameter / slots
   - 254 Ø: 254mm core diameter
   - 356 Ø: 356mm core diameter
   - 457 Ø: 457mm core diameter
   - 535 Ø: 535mm core diameter
   - 12 slot: 12 slot core
   - 24 slot: 24 slot core
   - 36 slot: 36 slot core
4) Finish
   - RAL... Polyester powder coated to RAL...
   - BS... Polyester powder coated to BS...

Plenum box ordering codes

1) Series
   - SWB: Side entry plenum box to suit swirl diffusers
   - TE-SWB: Top entry plenum box to suit swirl diffusers
2) Spigot size
   - (diameter / width x height)
3) Spigot arrangement
   - (nothing)
   - 2OP: Two spigots mounted on opposite sides
   - 2C: Two spigots mounted on adjacent sides
4) Acoustic insulation
   - INS: Internally lined
5) Internal finish
   - IN-BLACK: Internally painted RAL9005, matt black
6) Spigot damper
   - SBD: Single blade damper in spigot

Important note: Swirl diffuser plenum boxes are manufactured with side entry spigots as standard. Models with top entry spigots can be manufactured on request.
HVC & NCA products

HVC offer the significant advantage of manufacturing both in duct and duct terminal equipment, making us a one stop shop for all your HVAC needs.

The products shown below are a selection, not an exhaustive list. Go to www.h-v-c.com for details on all HVC and NCA products.

HVC: Grilles, Diffusers, Louvres and Volume Control Dampers

NCA: Fire and Volume Control Dampers