

# Square swirl diffuser with adjustable blades

## SWR-3



### Specifications

Square swirl diffuser with adjustable blades.

Used for supply, exhaust or recirculation in ventilation systems.

### Material

Steel plate.  
Plastic adjustable blades.

### Finish

Standard finish: white RAL9003, with black RAL9005 blades.

Optional finishing:  
- different RAL (extra cost)

Note: the blades will be always black RAL9005 finish.

### Mounting / Fixing

Mounting on standard or cassette ceiling (inside).

Fixing in plenum box with crossbar **BW** (extra cost).

### Optional accessories

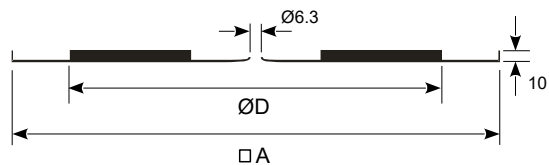
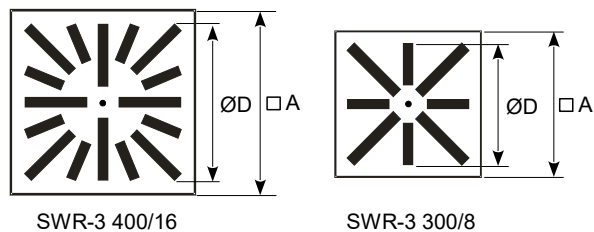
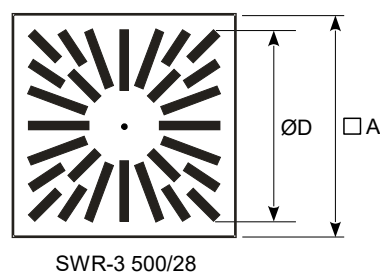
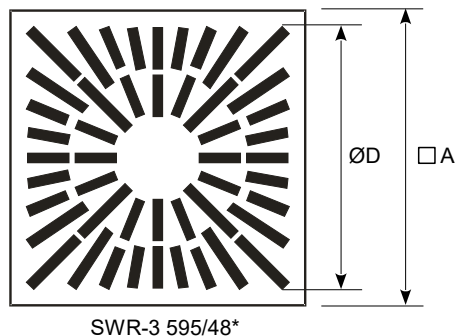
Plenum box – **PL** (extra cost).  
Fixing systems.

**Order code:**    **SWR-3**    **595** / **48**    + \*

Product code    \_\_\_\_\_  
size    \_\_\_\_\_  
no. of blades    \_\_\_\_\_  
not specified - white RAL9003 (standard)  
RALxxxx - optional RAL code    \_\_\_\_\_

\* optional accessories

### Technical data



### Standard sizes

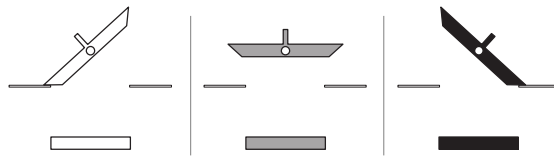
| Dimensions | no. of blades | A   | D   |
|------------|---------------|-----|-----|
| 595/48*    | 48            | 595 | 530 |
| 500/28     | 28            | 498 | 430 |
| 400/16     | 16            | 398 | 340 |
| 300/8      | 8             | 298 | 240 |

\*external size AxB 595x595 for cassette ceiling system.

There are no other sizes available.

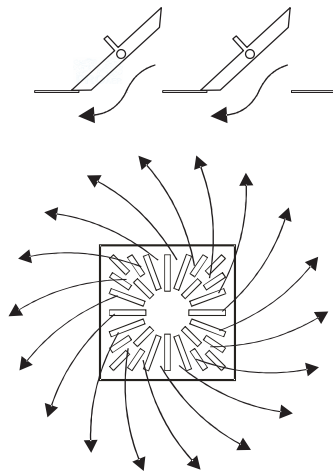
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## SWR-3

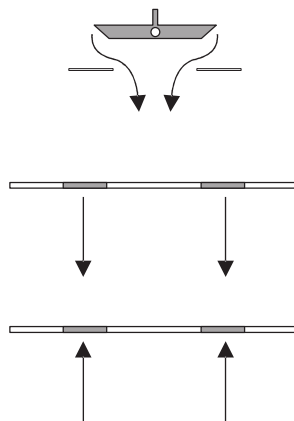


Blade orientation

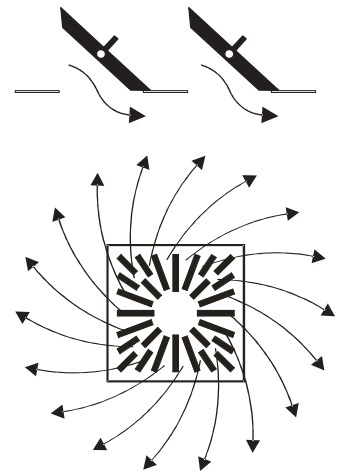
### Flow pattern



Uniform horizontal diffusion.  
Wide dispersion airflow.  
Used for supply.

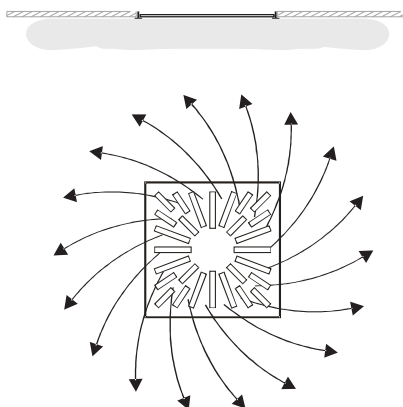


Vertical diffusion.  
Used for supply, exhaust  
or recirculation.

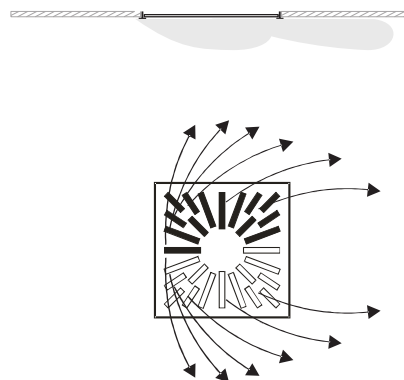


Uniform horizontal diffusion.  
Wide dispersion airflow.  
Used for supply.

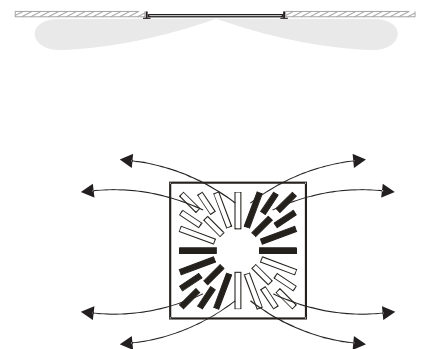
### Flow pattern



Uniform circular diffusion



Semicircular diffusion

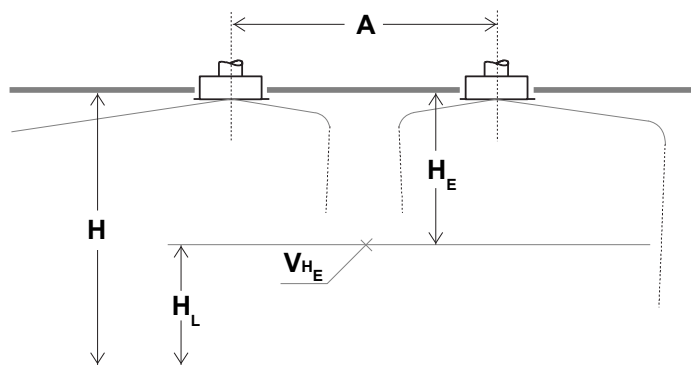


Bidirectional diffusion

## Square swirl diffuser with adjustable blades

# SWR-3

### Technical data



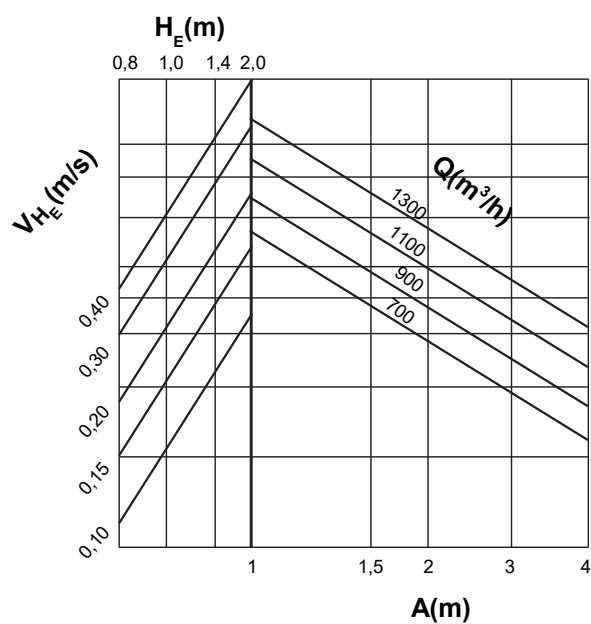
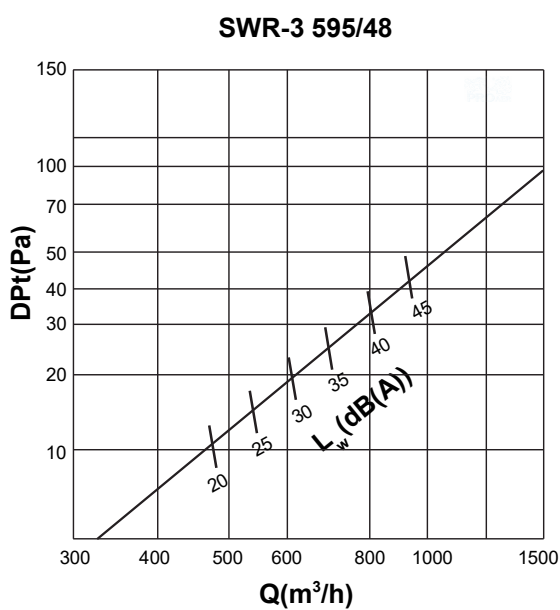
$H = 2,5\sim 4,0$  m (room height)

$H_L = 1,8$  m (occupied area)

$H_E = H - H_L$  (m)

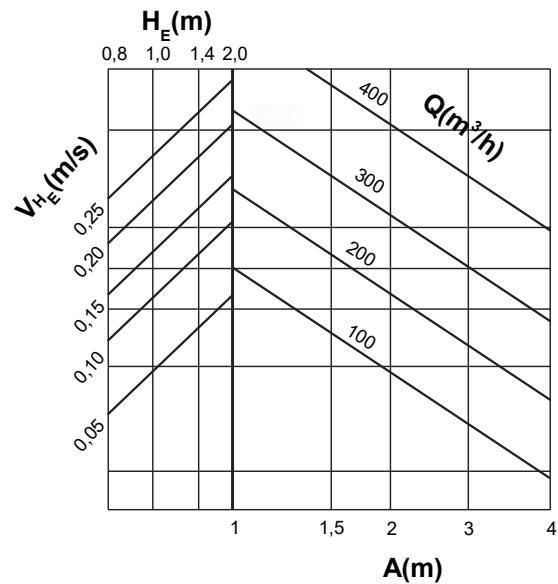
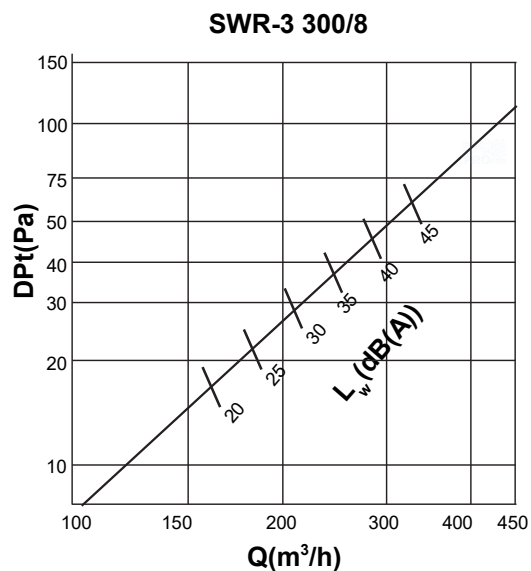
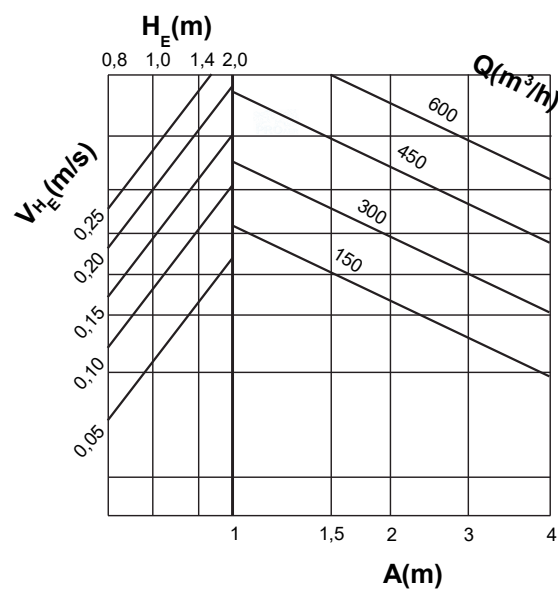
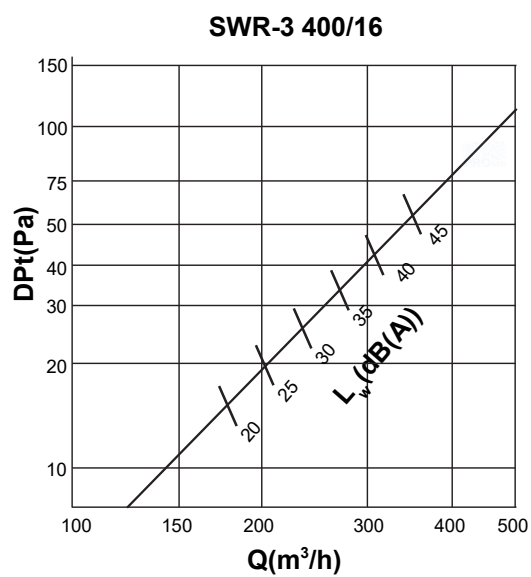
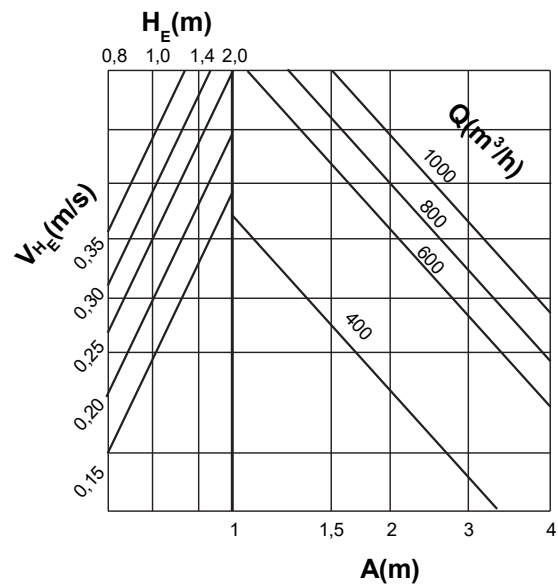
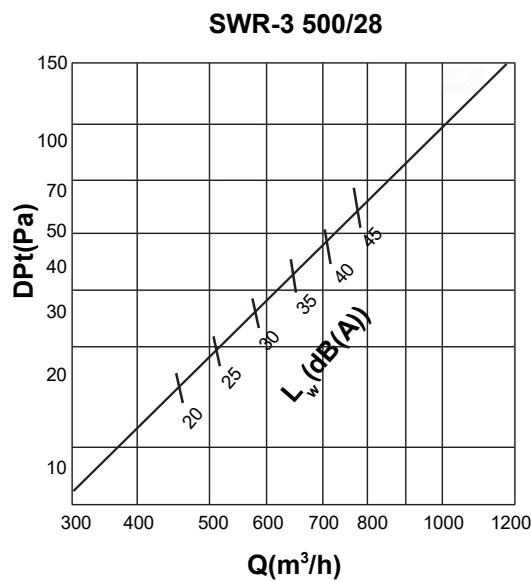
$A$  = distance (m)

$V_{H_E}$  = air velocity when entering in zone  $H_L$  (m/s)



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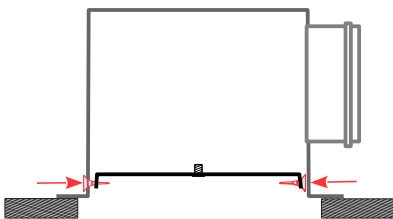
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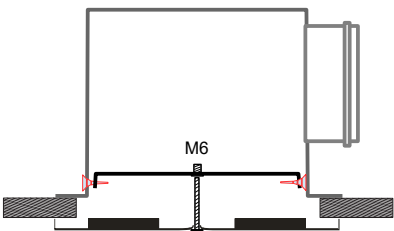
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### Mounting

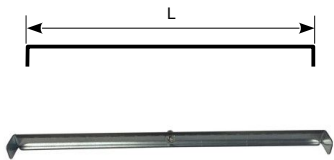
**Note:** Plenum box **PL** and crossbar **BW** are not included (extra cost).  
The crossbars are not delivered mounted in plenum box.



1. Adjust and mount the crossbar **BW** into the plenum box



2. Attach the diffuser with M6x80 screw to the crossbar



Crossbar **BW**

| SWR-3  | L   |
|--------|-----|
| 595/48 | 550 |
| 500/28 | 450 |
| 400/16 | 360 |
| 300/8  | 260 |