# Swirl Diffusers

## Fixed circular swirl diffusers

SF 861 series - Steel

SR 861 series - Steel

**Advantages**

- Perfect for cooling installations.
- Excellent high level air circulation.

### APPLICATION

- Air supply and air exhaust: high inductance fixed airflow.
- Heating and air-conditioning installations requiring high levels of air circulation.
- Ideal for the cold air supply (air-conditioning).
- Ceiling mounted.

### DESCRIPTION

- Body and diffusion vanes in steel.
- Finish - white epoxy painted steel RAL 9010 tint.
- Invisible fixing, using a screw in the diffuser neck.

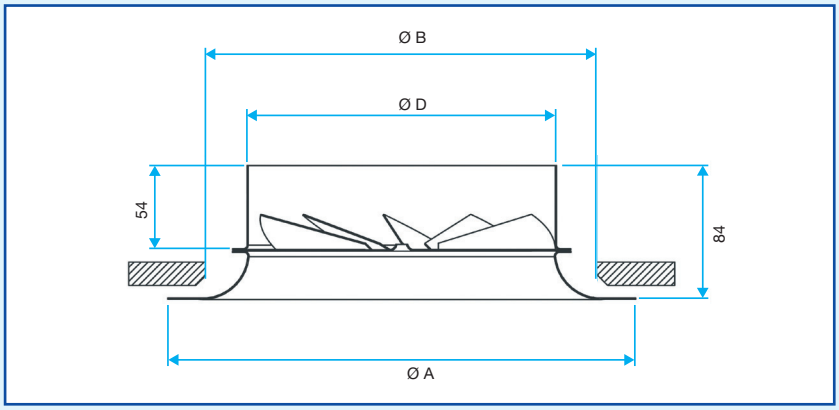
### ACCESSORIES

- LRE: side connector plenum in galvanised steel.
- BR damper: butterfly type with either 2 or 4 V-shaped blades (depending on diameter). Manufactured in steel. Adjustment through the diffuser uses a screw.

### ADDITIONAL RANGE

- Paint finish in accordance with the RAL colour chart (please, consult us).
- Models available to replace suspended ceiling tiles, see page 229.

### DIMENSIONS




SR 861 & SF 861 diffusers

| Comfort airflow levels for Lw < NR 30 and dimensions SR 861 | | | |
|---|---|---|---|
| Ø D (mm) | Ø A (mm) | Ø B (mm) | Airflow (m 3/h) |
| 125 | 225 | 175 | 80 |
| 160 | 250 | 210 | 130 |
| 200 | 300 | 250 | 200 |
| 250 | 350 | 300 | 280 |
| 315 | 415 | 360 | 420 |

| Comfort airflow for Lw < NR 30 and connector diameters SF 861 | | | |
|---|---|---|---|
| Ø D (mm) | A (mm) | Ø B (mm) | Airflow (m 3/h) |
| 125 | 225 | 175 | 80 |
| 160 | 250 | 210 | 130 |
| 200 | 300 | 250 | 200 |
| 250 | 350 | 300 | 280 |
| 315 | 415 | 360 | 420 |

• See selection table on page 281.

### RANGE R10

| Dimensions | Damper BR Code | Diffuser SF 861 Code | Diffuser SR 861 Code | Plenum LRE Side connector Code |
|---|---|---|---|---|
| Ø 125 | | 11051121 | 11051105 | |
| Ø 160 | 11053220 | 11051122 | 11051106 | 11053311 |
| Ø 200 | 11053221 | 11051123 | 11051107 | 11053312 |
| Ø 250 | 11053222 | 11051124 | 11051108 | 11053313 |
| Ø 315 | 11053223 | 11051125 | 11051109 | 11053314 |

# Selection Tables

## SR 861 - SF 861 - SF 861 T Series

Air supply with ceiling effect

| Ak ($m^2$) | Ø D (mm) | qv ($m^3$/hr) 50 | | 70 | | 100 | | 150 | | 250 | | 350 | | 500 | | 600 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0039 | 125 | – | 1 | 26 | 1.8 | 33 | 3 | | | | | | | | | Lw | Lt |
| | | 2.5 | 4.5 | 5 | 17 | 8.5 | 45 | | | | | | | | | Vk | Pa |
| 0.0071 | 160 | | | – | 1.4 | 24 | 2.3 | 33 | 3.2 | 42 | 4.0 | | | | | | |
| | | | | 2.6 | 5 | 4.5 | 13 | 6.5 | 26 | 8.5 | 45 | | | | | | |
| 0.0124 | 200 | | | | | – | 19 | 24 | 2.9 | 35 | 3.6 | 42 | 5.0 | | | | |
| | | | | | | 3.6 | 9 | 5.1 | 17 | 6.8 | 28 | 9.0 | 48 | | | | |
| 0.0199 | 250 | | | | | | | – | 2 | 27 | 2.7 | 35 | 3.6 | 42 | 5.0 | 46 | 6.0 |
| | | | | | | | | 2.7 | 5 | 3.5 | 9 | 4.9 | 16 | 6.5 | 26 | 8.5 | 45 |
| 0.0358 | 315 | Lw | Lt | | | | | | | – | 2.5 | 26 | 3.2 | 33 | 4.5 | 37 | 5.5 |
| | | Vk | Pa | | | | | | | 3.0 | 7.0 | 4.0 | 11 | 5.5 | 20 | 7.0 | 30 |

The values Lw (NR) do not take the attenuation in the premises into account.

Speed = 0.25 m/s.

Corrections for other terminal velocities

| Vt (m/s) | 0.25 | 0.37 | 0.5 | 0.63 |
|---|---|---|---|---|
| Lt | x 1 | x 0.67 | x 0.5 | x 0.4 |