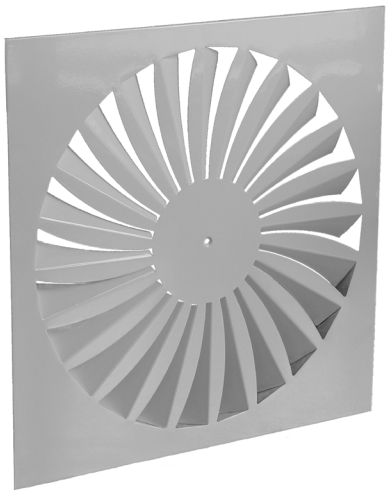
Swirl diffusers

# NK-SWA



## Description

The NK-SWA swirl diffuser directs and distributes the supplied air in the ventilated space. The product is compatible with low- and medium-pressure air supply systems and spaces with a maximum ceiling height of 4 m. The air is distributed via 24 radial guiding vanes.
A great advantage of this diffuser is excellent air distribution performance and low air flow noise.
The diffuser is designed for installation on ducts, plenum (expansion) boxes and as ductwork termination on suspended ceiling. The diffuser features a fixing screw hole in the centre.
The diffusers are light-weight easy-to-install products and require no additional bracing of suspended ceiling panels.
When installed on a plenum box, they provide a uniform air supply, while an insulated version of the plenum box reduces the ductwork and air noise level. The NK-SWA swirl diffusers come with installation screw.

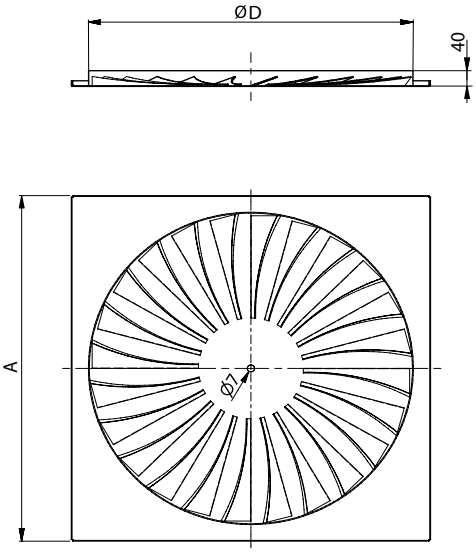
**Material: galvanized steel**
Finish: RAL 9016 powder-coated

**Available materials - Product code examples**
NK-SWA-...- galvanized steel sheet with powder-coated finish
colour: RAL 9016.

**Product code example**
Product code: **NKSWA-600**

type

## Dimensions




| *Product code* | A x A *[mm]* | *ØD [mm]* |
|---|---|---|
| NK-SWA-300 | 595 x 595 | 259 |
| NK-SWA-400 | 595 x 595 | 339 |
| NK-SWA-500 | 595 x 595 | 443 |
| NK-SWA-600 | 595 x 595 | 530 |
| NK-SWA-625 | 625 x 625 | 530 |

**This product is installed with a PRR plenum box in the standard version.**

Swirl diffusers

# NK-SWA

## *Technical specifications*

**Selection table**

| | | Q (m³/h) | | | | |
|---|---|---|---|---|---|---|
| | | 150 | 180 | 215 | 250 | 325 |
| H (m) | V (m/s) | A (m) | | | | |
| 0.9 | | 0.1 | 4.0 | 4.5 | 5.3 | 5.7, 6.0 |
| | 0.15 | — | 3.7 | 4.4 | 5.0 | 5.6 |
| | 0.2 | — | — | — | 4.2 | 5.0 |
| | 0.25 | — | — | — | — | 4.5 |
| 1.2 | 0.1 | — | 3.8 | 4.6 | 5.3 | 5.7 |
| | 0.15 | — | — | — | 4.1 | 4.9 |
| | 0.2 | — | — | — | — | 4.0 |
| 1.6 | 0.1 | — | — | 3.0 | 4.4 | 5.2 |
| | 0.15 | — | — | — | — | 4.0 |
| 2.0 | 0.1 | — | — | — | 3.0 | 4.6 |

Exhaust

| Size [mm] | Air flow [m³/h] | Pressure drop [Pa] | Sound level [dB(A)] |
|---|---|---|---|
| 300 | 150 | 16 | 20 |
| | 250 | 40 | 35 |
| | 350 | 80 | 44 |
| 400/500 | 250 | 8 | ‹20 |
| | 350 | 16 | 27 |
| | 500 | 36 | 40 |
| | 700 | 70 | 50 |
| | 900 | 120 | 55 |
| 600 | 350 | 8.5 | ‹20 |
| | 500 | 22 | 26 |
| | 700 | 38 | 35 |
| | 900 | 65 | 43 |

Supply

| Size [mm] | Air flow [m³/h] | Pressure drop [Pa] | Sound level [dB(A)] |
|---|---|---|---|
| 300 | 100 | 6.5 | ‹20 |
| | 150 | 13 | 24 |
| | 250 | 35 | 37 |
| | 400 | 9 | 53 |
| | 500 | 140 | 65 |
| 400 | 150 | 4.5 | ‹20 |
| | 200 | 9 | ‹20 |
| | 300 | 18 | 28 |
| | 400 | 36 | 38 |
| | 500 | 50 | 44 |
| 500 | 180 | 4.5 | ‹20 |
| | 250 | 8 | ‹20 |
| | 350 | 15 | 27 |
| | 550 | 38 | 42 |
| | 700 | 60 | 47 |
| 600 | 300 | 6 | ‹20 |
| | 400 | 10 | 22 |
| | 600 | 20 | 32 |
| | 800 | 38 | 42 |
| | 1200 | 85 | 55 |

**Q(m3/h) — volumetric air flow**
**V (m/s) — air velocity**
**A(m) — slot row spacing**
**H(m) — distance from the ceiling to the occupied floor**