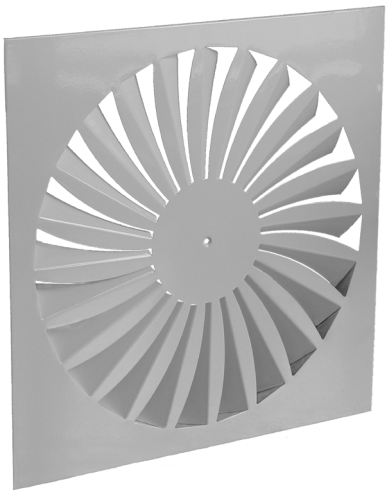
Swirl diffusers

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 with a cover cap.

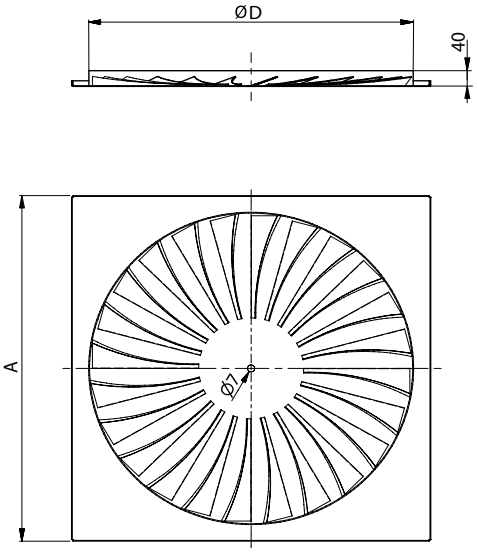
Material: galvanized steel
Finish: RAL 9016 powder-coated

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.

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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

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