



Description:

A square steel swirl diffuser with movable aluminium vanes, set manually.

Intended use

The NWC diffusers are designed for low- and medium-pressure ventilation systems. They make it possible to achieve the swirl airflow. They are particularly recommended for rooms where heating and cooling are provided by a ventilation system, or where the precise settings of the supply airflow final velocity in a zone occupied by people is a crucial parameter.

Design

The NWC diffusers are equipped with 4 sets of movable vanes made of aluminium.

The diffuser frame is made of steel sections. The device is entirely powder-coated with RAL9010 white paint. They can also be coated in another RAL colour on request.

Vane adjustment

The speed is adjusted by separately setting each of the 4 integrated blade units. A change in the setting angle of one set of vanes is obtained by setting one of the vanes of this set in the required position. It is possible to set each set of vanes at different angles.

Installation

The diffusers can be mounted to a baffle, through holes in the diffuser frame.



Technical data of the diffusers, including pressure loss, noise level and airflow ranges, is available at smay.eu, in the document Flow Characteristics for Grilles and Diffusers.

Dimensions

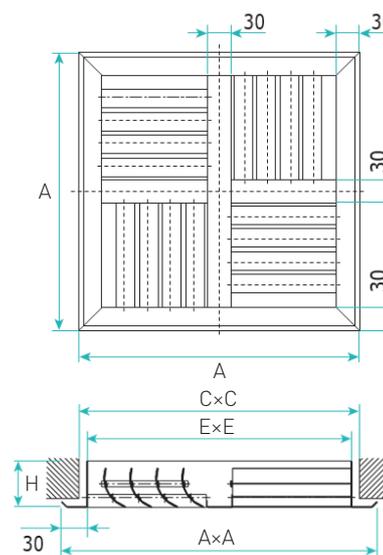


Figure 1. NWC front panel dimensions.

Table 1. Standard dimensions of the NWC diffusers

Size	A	E	C	H
	[mm]	[mm]	[mm]	[mm]
380	425	320	380	54
560	605	500	560	54
740	785	680	740	54
980	1,025	920	980	54



NWC – Swirl diffuser with movable vanes

When ordering, please provide information in accordance with the following pattern:

NWC - <C> - SL<RAL> / <ADD>

Where:

C	Mounting hole width in mm
SL	Finish: steel, painted frame; aluminium painted vanes
RAL	Colours as per RAL colour standard (by default: RAL9010)*
ADD	Specify additional accessories here as follows

Accessories:

Plenum box as per the configuration below:

SR - <I> - <H> - <K><D><R>

Where:

I	Insulation*	D	Connection pipe diameter in mm*
	None – No insulation	R	Damper in spigot *
	t – Insulated		None – No damper
H	Plenum box height in mm*		P – Damper adjusted from outside the box
K	Position of spigot *		
	b – Side		
	g – Top		

* Optional values – if not specified, default values will be used

** For more information see the accessories sheet

Sample order: **NWC-380-SL9010 / SRt-330-b198P**



Blocks for Revit software, a selection programme and certificates are available at www.smay.pl