

NWM

SWIRL DIFFUSER WITH FIXED VANES



Description:
Rectangular or circular steel swirl diffuser with fixed vanes.

Intended use

NWM diffusers are designed for low- and medium-pressure ventilation systems. They provide a swirling air supply and are particularly recommended for 2 to 5 m high rooms. NWM diffusers may be used in extraction mode.

Design:

NWM diffusers have fixed vanes that generate a swirling airflow. The front panel of the diffuser may be round or square. NWM diffusers are made of powder-painted (RAL9010 white) steel. Other RAL colour painting and a stainless steel version are available for special order. NWM diffuser can be made in an air supply (a plenum box with a deflector) or an exhaust (a plenum box without a deflector) version. NWM diffusers are made in two versions – standard and horizontal.

Installation

NWM diffusers can be mounted with a single bolt led through a hole in the central section of the diffuser.



The technical data of the diffusers, including pressure loss, noise level and stream ranges, is available at www.smay.eu, in the diffuser selection range.

Dimensions

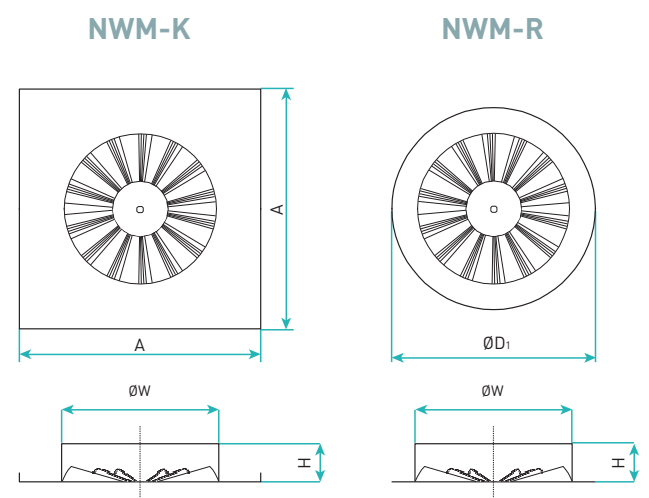


Figure 1. NWM front panel dimensions.

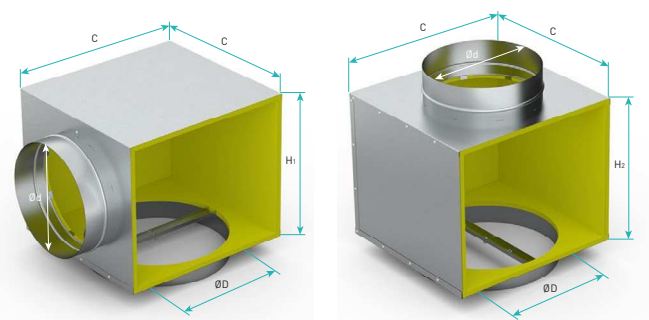


Figure 2. Dimensions of SR rectangular plenum boxes for NWM diffusers.

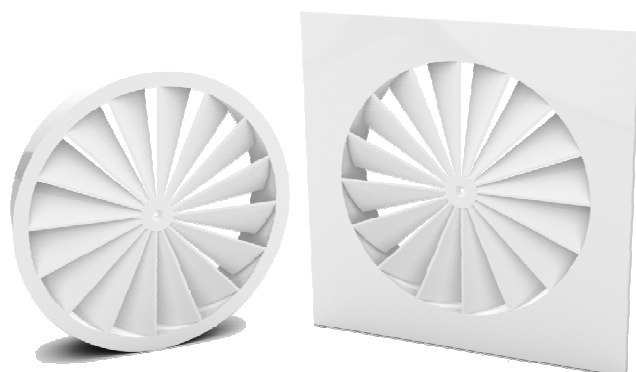


Table 1. Standard dimensions of NWM diffusers and plenum boxes.

Size	A	ØD ₁	ØW	H	Ød	C	ØD	H ₁	H ₂
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
100	198	135	98	40	98	198	102	270	220
125	248	160	123	40	98	248	127	270	220
160	248	195	158	60	123	248	163	270	220
200	298	235	198	60	158	298	203	270	220
250	348	285	248	70	198	348	253	330	280
315	398	340	313	70	248	398	318	330	280

SN

SL

RAL



NWM – Swirl diffuser with fixed vanes

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

NWM - <C> - <W> <T> - <P> <RAL> / <ADD>

Where:

C	Front panel*
	R – Round K – Square
W	Diffuser size: 100, 125, 160, 200, 250, 315
T	Version*
	None – Standard H – Horizontal
P	Finish*
	SL – coated steel SN – Stainless steel, grade 1.4301 (304 according to AISI, 0H18N9 according to PN)
RAL	colour according to the RAL colour chart *
ADD	Specify additional accessories here **

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

** For more information see the accessories sheet

Sample order: **NWM-R-200-SL9010 / SRts-270-b158P**



Blocks for REVIT software, selection range and certificates are available at www.smay.pl.

Accessories**

Plenum box as per the configuration below:

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

Where:

I	Insulation*
	None – No insulation t – Insulated
W	Screen deflector*
	None – No deflector (default for exhaust) s – With a deflector (default for supply)
H	Plenum box height *
K	Connection pipe position *
	b – Side g – Top
D	Connection pipe diameter in mm*
R	Damper in a connection pipe*
	None – No damper P – Damper adjusted from outside the box Pc – Damper adjusted from inside the box with a cord Pd – Damper adjusted from inside the box with a lever (for the boxes with no deflector only)