NO

ROUND AIR VENT

Description:
Round air vent with a telescopic sleeve for installation in a building partition with a thickness of 320–550 mm.

Intended use

The NO air vents are designed to supply fresh air to residential, storage or technical rooms, such as boiler rooms. In apartments, they can be mounted above or next to a window. Air vents in boiler rooms should be installed at a height of about 300 mm above the floor level.

Design

The NO ventilators are equipped with an air intake that is responsible for the intake of air from the outside. The construction of the air intake prevents precipitation from getting inside, and the device is also equipped with a net protecting against insects. Inside the building, the air vent is equipped with a diffuser with a layer of insulation that prevents the formation of condensation in the winter and acts as a noise damper. The diffuser allows for precise adjustment of the air flow rate by the user. Optionally, the air vent can be equipped with a flow stabilizer that regulates the air flow stream, limits the airflow and prevents it from changing its direction. Each air vent comes with an additional air filter (separately, for self-assembly), which captures dust and other airborne contaminants. The diffuser is painted in RAL9003.

The air intake can be made of the following materials:

OC – galvanized steel
CC – stainless steel, cat. 1.4301,
ML – galvanized steel, powder coated (RAL9003 as standard, optionally another colour from the RAL palette).

Dimensions

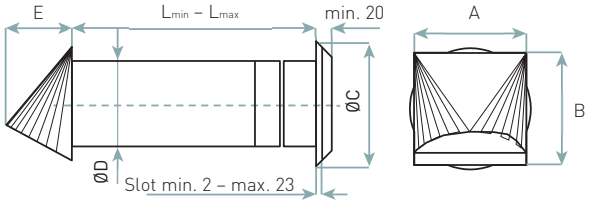


Figure 1. Dimensions of the round air vent NO

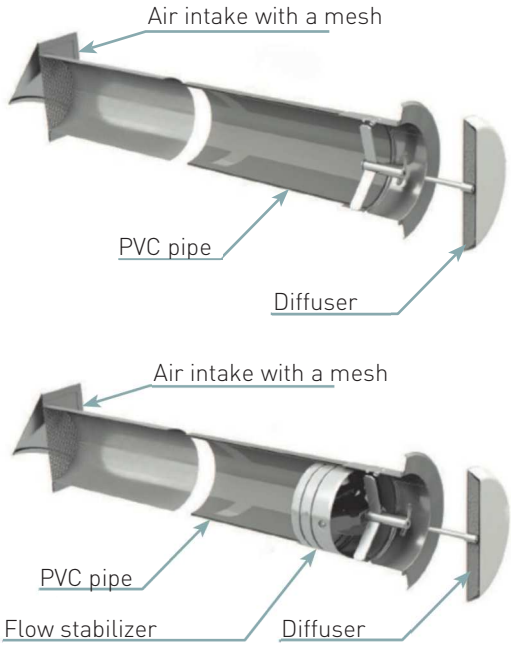


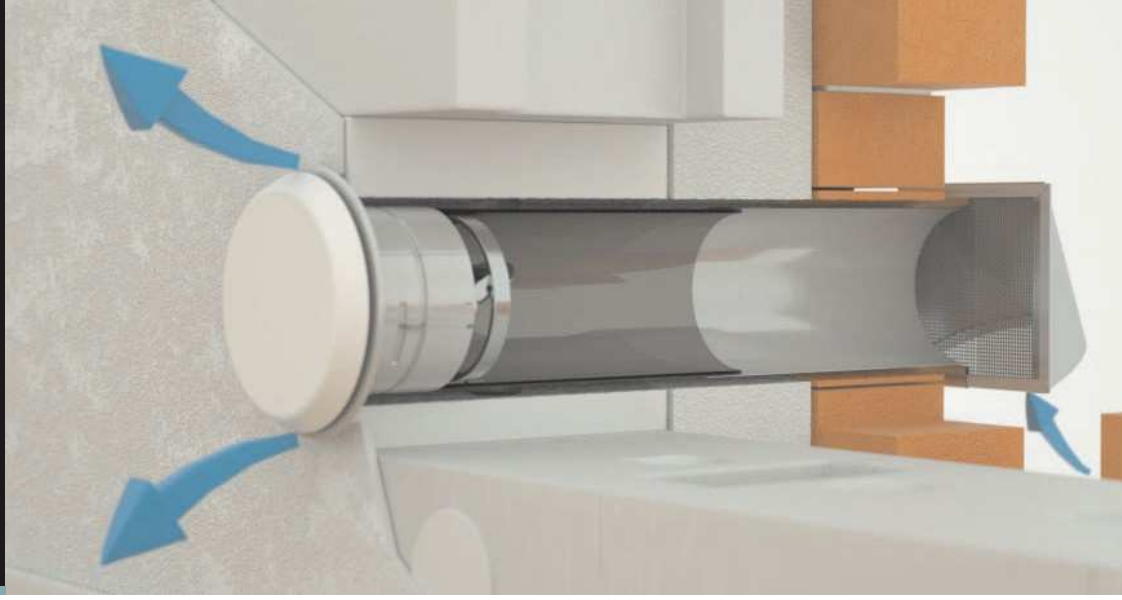
Figure 2. Construction of the NO round air vent and the NO-S round air vent with stabilizer.

Table 1. Dimensions of the NO air vent.

Air vent version	Dimensions [mm]					Channel cross-section [cm2]	L-channel length min.-Lmax. [mm]	Mounting hole diameter [mm]	10 Pa [m³/h]	Weight [kg]
	A	B	C	D	E					
NO-80A	104	105	121	77	62	38	320 ÷ 550	90	37	0.8
NO-110A	146	147	161	112	87	87	320 ÷ 550	120	60	1.3
NO-150A	196	197	211	162	116	177	350 ÷ 580	170	124	2.3
NO-S-80A	104	105	121	77	62	38	320 ÷ 550	90	30	0.9
NO-S-110A	146	147	161	112	87	87	320 ÷ 550	120	50	1.5
NO-S-150A	196	197	211	162	116	177	350 ÷ 580	170	83	2.6

SO SN SL

RAL



Operating principle

An example of correct air flow in an apartment in a single-family house or block of flats: fresh outside air is supplied through air vents installed in a living room or a bedroom. The supplied air flows through subsequent rooms and is removed through a ventilation grille, usually installed in a kitchen or a bathroom. In order for the air to flow freely to the air vent and to the ventilation grille, an undercut should be made in the doors of the rooms (gap min. 1 cm) or equalizing grilles should be installed

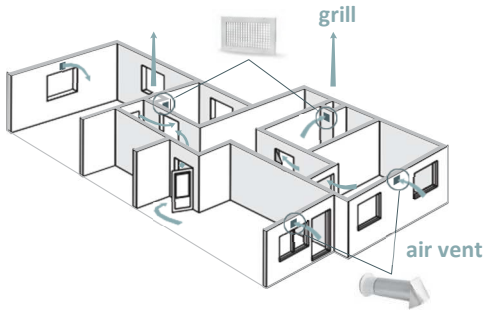


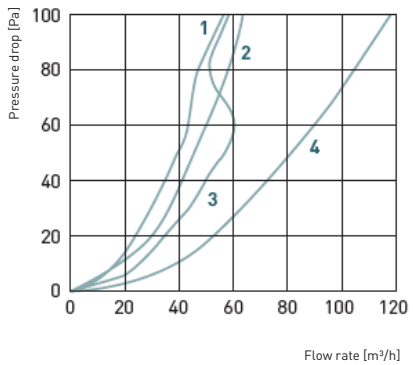
Figure 3. Arrangement scheme of elements and correct air flow

FNP Filter... (for self-assembly)

Figure 4. FNP air filter

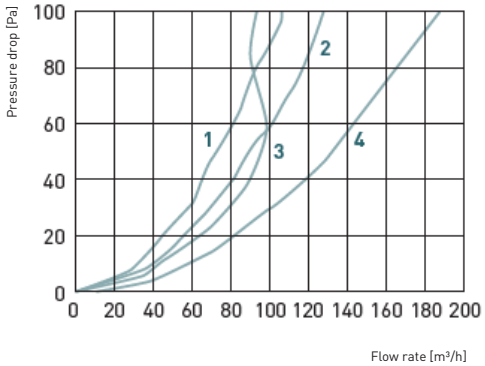
Technical data

N080



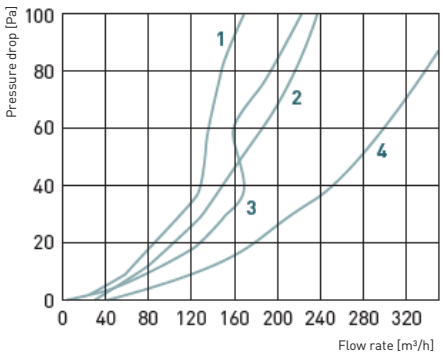
1 – NO-S-80A – with filter ξ variable
2 – NO-80A – with filter ξ = 7.7
3 – NO-S-80A – without filter ξ variable
4 – NO-80A – without filter ξ = 2.3

N0110



1 NO-S-110A – with filter ξ variable
2 – NO-110A – with filter ξ = 9.8
3 – NO-S-110A – without filter ξ variable
4 – NO-110A – without filter ξ = 4.5

N0150



1 – NO-S-150A – with filter ξ variable
2 – NO-150A – with filter ξ = 12.4
3 – NO-S-150A – without filter ξ variable
4 – NO-150A – without filter ξ = 4.4

Chart 1. Pressure losses of the NO air vent.

NO – Round air vent

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

NO - <S> - <D> A - <M>

Where:

S	Stabilizer*	
	None – Without flow stabilizer	
	S – Flow stabilizer	
D	Air vent size	
	80 – Size 80	
	110 – Size 110	
	150 – Size 150	
A	Diffuser	
M	Intake material	
	OC – Galvanised steel	
	CC – Stainless steel, grade 1.4301	
	ML – Powder coated galvanized steel (standard RAL 9003)	

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

Sample order: **NO-S-110A-ML**