NOG **ROUND AIR VENT WITH A HEATER**



Intended use

The NOG air intake ventilators with a heater are intended for use as a supply of fresh air, which is pre-heated, for 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 NOG air vents are equipped with a thermostat which ensures automatic operation of the heater. It is responsible for turning it on when the temperature of the incoming air is lower than about 3°C and turning it off when its temperature rises above about 10-15°C. Half-ceramic heating elements automatically regulate power consumption depending on the amount and temperature of the flowing air. The NOG ventilators are equipped with an air intake that is responsible for the intake of air from the outside. The design of the air intake protects against precipitation and has a mesh 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. It regulates the stream of air flow, 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:

CC – stainless steel 1.4301.

ML - galvanized steel, powder coated (RAL9003 as standard, optionally another colour from the RAL palette).



Description:

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

Dimensions



Figure 1. Dimensions of the NOG air vent with a heater



Figure 2. Construction of the NOG round air vent and the NOG-S round air vent with stahilizer

Dimensions [mm]									
А	В	С	D	E	Channel cross-section [cm²]	Channel length L _{min} -L _{max} [mm]	Mounting hole diameter [mm]	Efficiency for 10 Pa [m³/h]	Weight m [kg]
104	105	121	77	62	38	320 ÷ 550	90	28	1.3
146	147	161	112	87	87	320 ÷ 550	120	49	2.4
196	197	211	162	116	177	350 ÷ 580	170	97	4.1
104	105	121	77	62	38	320 ÷ 550	90	22	1.4
146	147	161	112	87	87	320 ÷ 550	120	40	2.6
196	197	211	162	116	177	350 ÷ 580	170	74	4.4
	A 104 146 196 104 146 196	A B 104 105 146 147 196 197 104 105 146 147 196 197 104 105 196 197 196 197 196 147 196 147	A B C 104 105 121 146 147 161 196 197 211 104 105 121 196 147 161 196 197 211 146 147 161 196 197 211	Dimensions [mm] A B C D 104 105 121 77 146 147 161 112 196 197 211 162 104 105 121 77 146 147 161 112 104 105 121 77 146 147 161 112 146 147 211 162 196 197 211 162	A B C D E 104 105 121 77 62 146 147 161 112 87 196 197 211 162 116 104 105 121 77 62 146 147 161 112 87 196 147 161 112 87 146 147 161 112 87 196 197 211 162 116	Dimensions Dimensions Channel cross-section [cm²] A B C D E Channel cross-section [cm²] 104 105 121 77 62 38 104 105 121 77 62 38 146 147 161 112 87 87 196 197 211 162 116 177 146 147 161 112 87 87 196 197 211 162 116 177	Dimensions [mm] Description [mm] Description [mm] Channel cross-section [Lmm²] Channel length [Lmm²] 104 105 121 77 62 38 320÷550 104 105 121 77 62 387 320÷550 104 147 161 112 87 87 320÷550 196 197 211 162 116 177 350÷580 146 147 161 112 87 87 320÷550 146 147 161 112 87 87 320÷550 146 147 161 112 87 87 320÷550 146 147 161 112 87 87 320÷550 196 197 211 162 116 177 350÷580	Dimensional Linear Constraints Dimensional Linear Constraints Channel Length Linear Constraints Mounting hole Constraints A B C D E Channel cross-section Linear Constraints Mounting hole Constraints 104 105 121 77 62 38 320÷550 90 104 105 121 77 62 387 320÷550 90 104 107 161 112 87 87 320÷550 120 104 105 121 162 116 177 350÷580 170 104 105 121 77 62 381 320÷550 90 104 105 121 162 116 177 350÷580 170 146 147 161 112 87 87 320÷550 120 196 197 211 162 116 177 350÷580 170	Dimensions [month] Dimensions [month] Channel cross-section Channel length Lmin-Lmax [mm] Mounting hole diameter [mm] Efficiency for 10 Pa [m²/h] 104 105 121 77 62 38 320÷550 90 28 104 105 121 77 62 38 320÷550 90 28 104 147 161 112 87 87 320÷550 120 49 105 121 162 116 177 350÷580 170 97 104 105 121 77 62 38 320÷550 90 22 104 105 121 162 136 320÷550 90 22 146 147 161 112 87 87 320÷550 120 40 146 147 161 112 116 177 350÷580 170 74

Table 1. Dimensions of the NOG air vent.



AIRFLOW CONTROL AND DISTRIBUTION





Operating principle

An example of the correct air flow in an apartment in a singlefamily house or block of flats. Fresh outside air is supplied through ventilators 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 (1 mm min gap) or equalizing grilles should be installed.



Figure 3. Arrangement of elements and correct air flow.

Technical data



NOG110



NOG150





Chart 1. Selection characteristics of the NOG air vent with a heater



Figure 4. FNP air filter

Electrical diagram

Table 2. Technical parameters of the heater.					
Electrical parameters	NOG80	N0G110	N0G150		
Supply voltage		230 V			
Nominal power	138 W	270 W	305 W		
Maximum current	2 A	3 A	3.5 A		
Housing protection		IP 33			



Diagram 1. Electrical diagram

NOG – Round air vent with a heater

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

NOG -	- <s> - <d> A - <m></m></d></s>
Where	3:
S	Stabilizer*
	None – Without flow stabilizer
	S – Flow stabilizer
D	Air vent size
	80 – Size 80
	110 – Size 110
	150 – Size 150
А	Diffuser
М	Intake material
	CC – Stainless steel, grade 1.4301
	ML – Powder coated galvanized steel (standard RAL 9003)
* Optic	onal values – if not specified, default values will be used

Sample order: NOG-S-110A-ML

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