

**Description and application**

Displacement flow diffuser NW-4p are used in industrial facilities or public utility, in places where there is a need to bring a large amount of fresh air with low velocity in the occupied zone. These diffusers can be freestanding or mounted at the wall or installed in the wall niche.

**Description and application**

Diffusers are made of two coats perforated sheet (internal and external) of different clearance. Diffusers can be fitted with rectangular or rounded intake spigots, for connection to matching rectangular or round duct. Rectangular body can be mounted on the base in the form of a plinth - option for free standing version. Diffuser with disassembled front panel with external frame allows to fit it into the wall niche and mask the gap between the wall and the diffuser. Diffusers in standard are made of galvanized powder coated steel. Also available in stainless steel / acid-resistant or powder-coated aluminum.

**Construction**

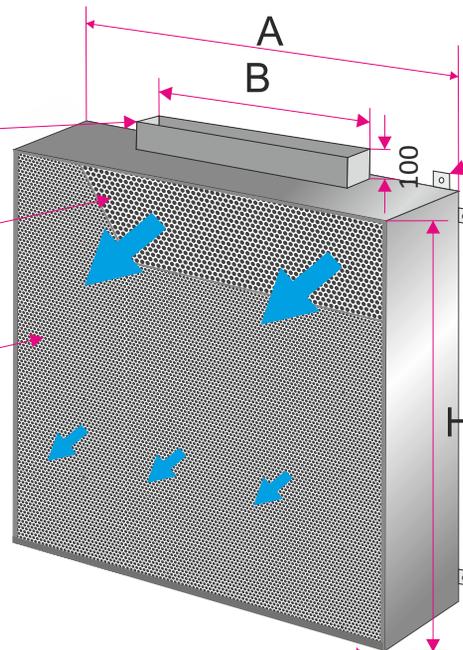
At customer's request the dimensions can be changed diffuser, after discussing the technical possibilities.

**Diffuser with two coats perforated sheets permanently mounted:**

connection spigot

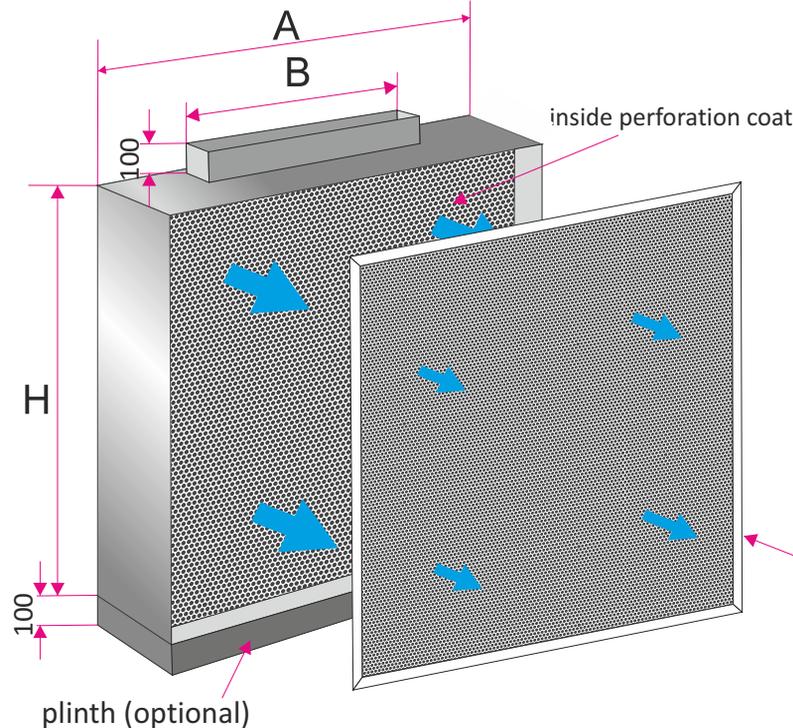
Inside perforation coat

Outside perforation coat  
(in the case of a diffuser with a frame  
- front panel can be removable)



Example of mounting for the hanging version: handles on the side or top of the diffuser - to be agreed

**Diffuser with removable front panel:**



the bottom of the diffuser in the hanging or standing version - with additional security instead of plinth (standard version)

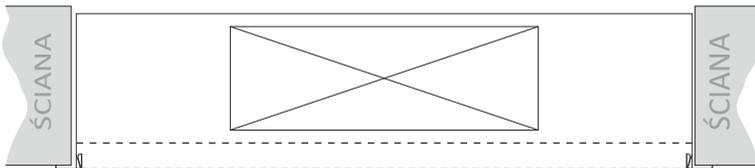
Removable faceplate with masking frame - assembly, for example on latches

## Ways of execution

Displacement diffusers NW-4p are mounted in the wall and can be made in the free standing version or parietal version. Depending on the method and location of the diffuser, the front panel can be disassembled with an enclosing frame (R1) or permanently mounted when there is no need to inspect the diffuser.

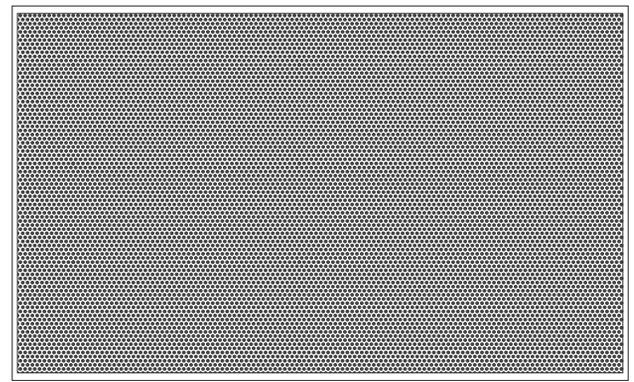
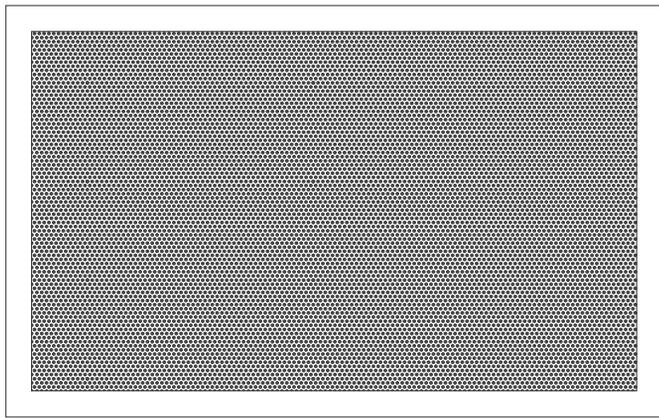
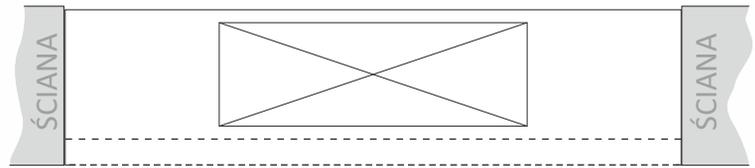
### Frame R1

Diffuser with frame flanged on a wall  
(option to remove the front panel)



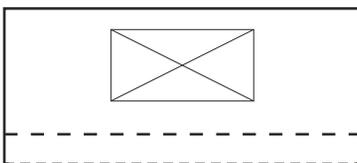
### Frame R2

Diffuser leveled against the wall

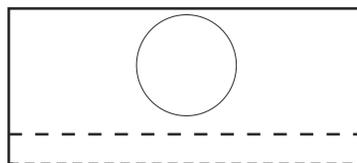


## Types and location of connection spigots

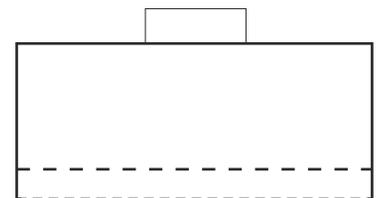
rectangular top spigot



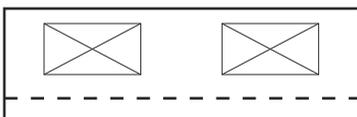
upper round spigot



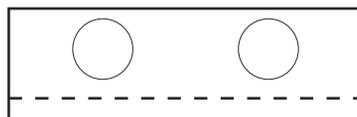
back round spigot



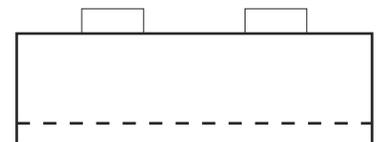
2x rectangular top spigot



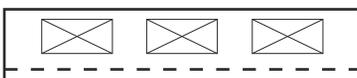
2x upper round spigot



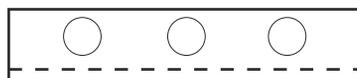
2x back round spigot



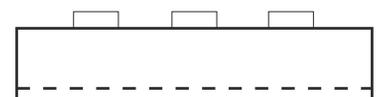
3x rectangular top spigot



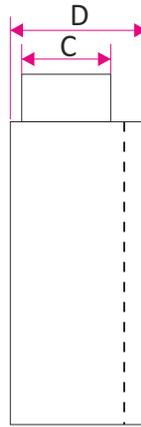
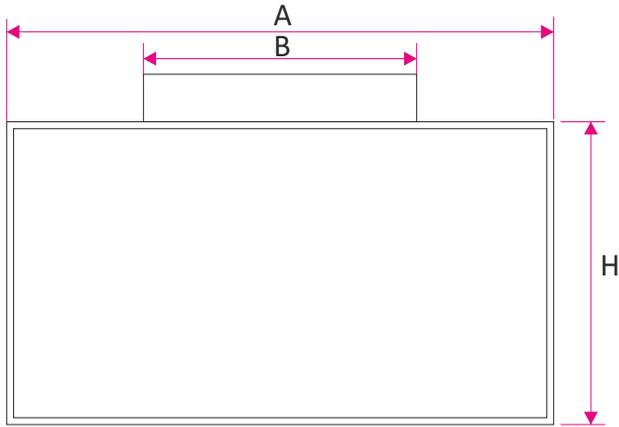
3x upper round spigot



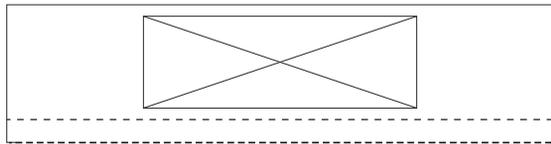
3x back round spigot



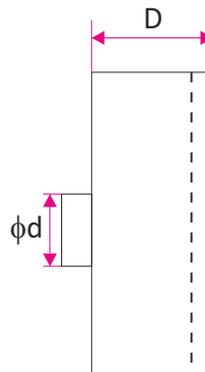
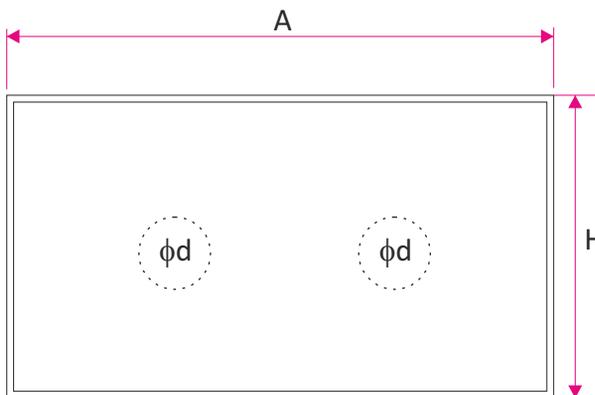
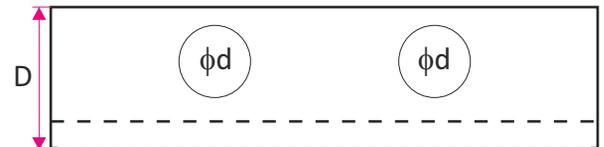
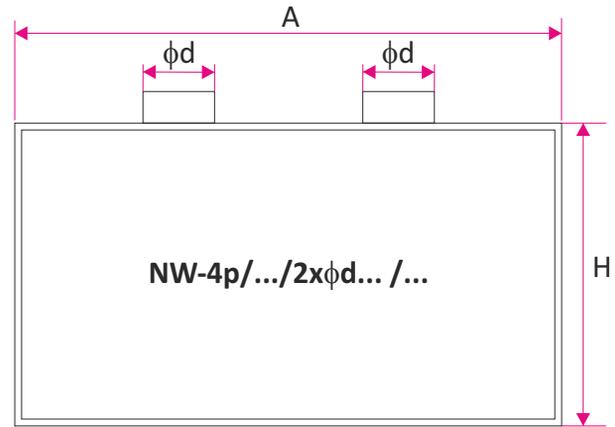
**Ways of execution**



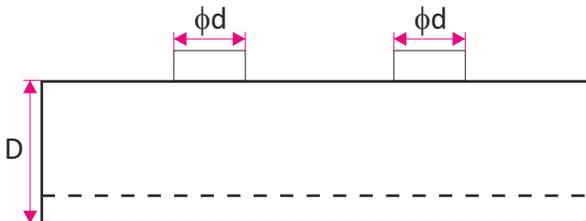
- wall mounting (frame R1) or parietal (frame R2)
- directional airflow 1-, 2- or 3-ways
- perforated front plate and inside perforated sheet coat provide airflow with low turbulence and low speed
- galvanized steel, aluminum or stainless steel
- rectangular connection spigot
- available with base (plinth)



- wall mounting (frame R1) or parietal (frame R2)
- directional airflow 1-, 2- or 3-ways
- perforated front plate and inside perforated sheet coat provide airflow with low turbulence and low speed
- galvanized steel, aluminum or stainless steel
- round connection spigot (number of spigots adjusted to the size of diffuser)
- available with base (plinth)



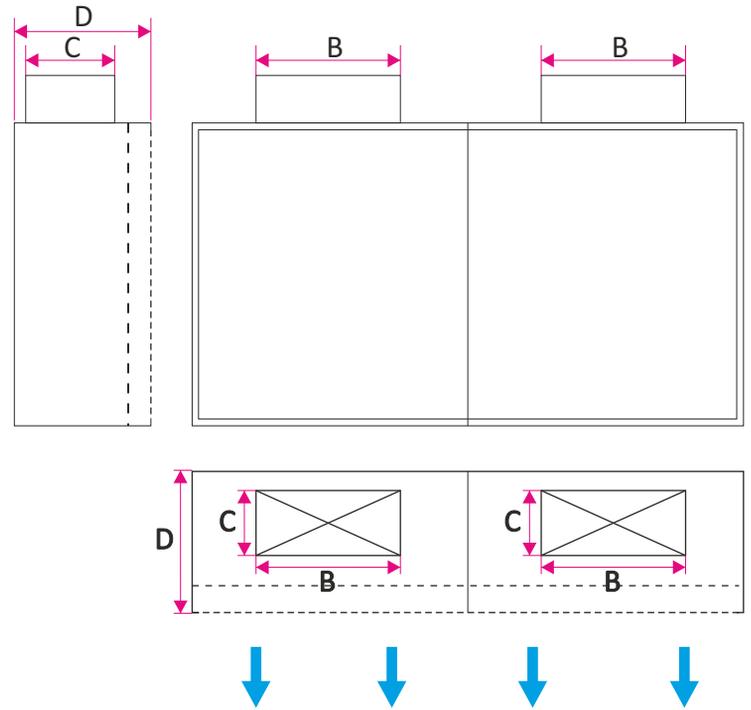
- wall mounting (frame R1) or parietal (frame R2)
- directional airflow 1-, 2- or 3-ways
- perforated front plate and inside perforated sheet coat provide airflow with low turbulence and low speed
- galvanized steel, aluminum or stainless steel
- back round connection spigot (number of spigots adjusted to the size of diffuser)
- available with base (plinth)



## Ways of execution

### Modular inline assembly

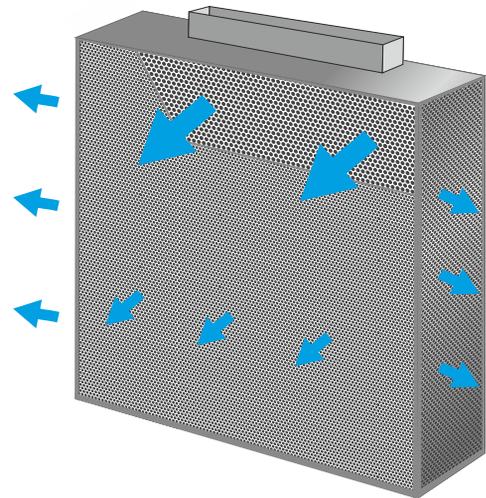
- modular installation in the wall (R1 frame) or wall (R2 frame)
- 1-, 2- or 3-way air supply
- perforated faceplate provides low airflow, turbulence and low speed
- galvanized steel, aluminum or stainless steel
- rectangular connection stub (separately for each diffuser)
- available with a base (plinth)



## Ways of execution

### Diffuser NW-4p with directional airflow 2- or 3- ways

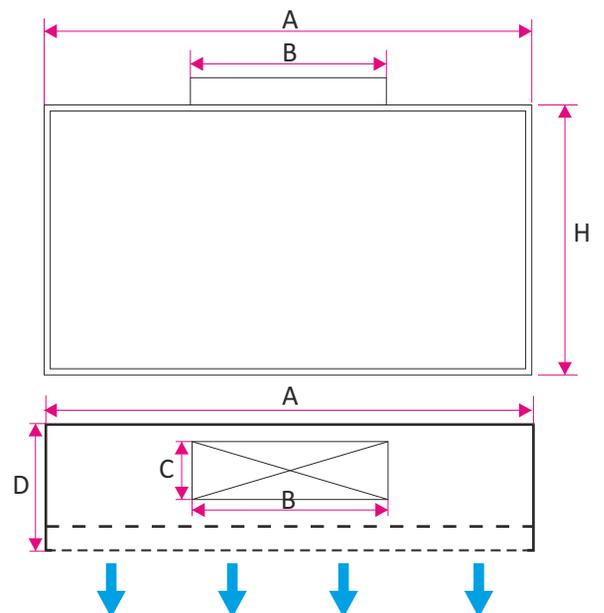
- mounting parietal (frame R2) or free standing
- directional airflow 1-, 2- or 3-ways
- perforated front plate and inside perforated sheet coat provide airflow with low turbulence and low speed
- galvanized steel, aluminum or stainless steel
- rectangular connection spigot
- available with base (plinth)



## Example of dimensions

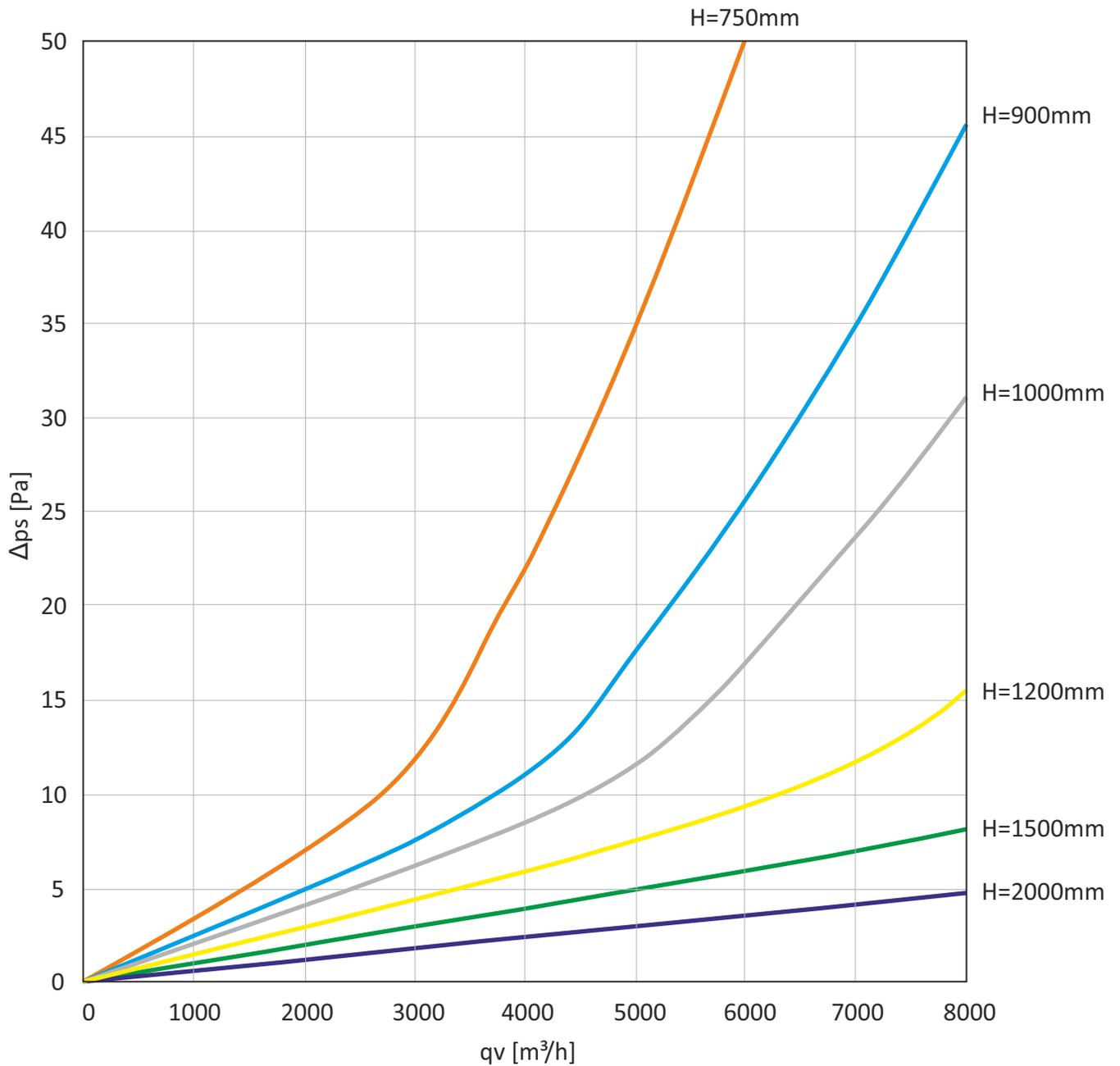
All dimensions of diffuser on customer request.

A [mm]	H [mm]	B [mm]	C [mm]	D [mm]
1200	750	600	200	300
1200	900	600	200	300
1200	1000	600	200	300
1200	1200	600	200	300
1200	1500	600	200	300
1200	2000	600	200	300



## Technical data

### Aerodynamic characteristics of NW-4p diffusers



**Signs:**

qv [m<sup>3</sup>/h] - air flow

Δps [Pa] - pressure loss

for A = 1200 mm

## The method of placing an order

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Please make orders according to the following formula:

**NW-4p/ 'AxH' / 'D' / 'BxC' / 'R' / 'K' / 'N' / 'RAL' / 'M' / 'C'**

'AxH'	- external dimension - for example <b>1200x2000</b>
'D'	- diffuser depth *
'BxC'	- number of spigots and dimension - for example <b>2xφ200 / 2x 600x200</b>
'R'	- type of frame (diffuser location) <b>R1</b> - diffuser with frame - version for mounting in wall <b>R2</b> - diffuser without frame - free standing/ parietal version
'K'	- the position of the connection spigot: <b>G</b> - top * <b>T</b> - back
'N'	- direction of airflow <b>1-, 2-, 3-way</b>
'RAL'	- diffuser color according to RAL palette
'M'	- material: <b>OC</b> - galvanized steel* <b>AL</b> - aluminum <b>KO</b> - stainless steel (type 1.4301 or 1.4404)
'C'	- accessories <b>none</b> * <b>C</b> - base (plinth)

\* - If you don't give the information will be used standard parameters.