

## Description and application

Corner displacement flow diffuser NW-n are used in industrial facilities or public utility, in places where there is a need to bring a large amount of fresh air. The air is supplied at low speed. The air is supplied at low speed from 0.2 m/s to 0.6 m/s near of the workstations and the occupied zone. The supply air temperature while cooling should be lower by 4 to 6 K, while the maximum temperature difference during heating is 9 K. Supply perforated surface of the diffuser blowing air has a low turbulence, easily displaces the the used air from the work area or occupied zone in the extract air openings.

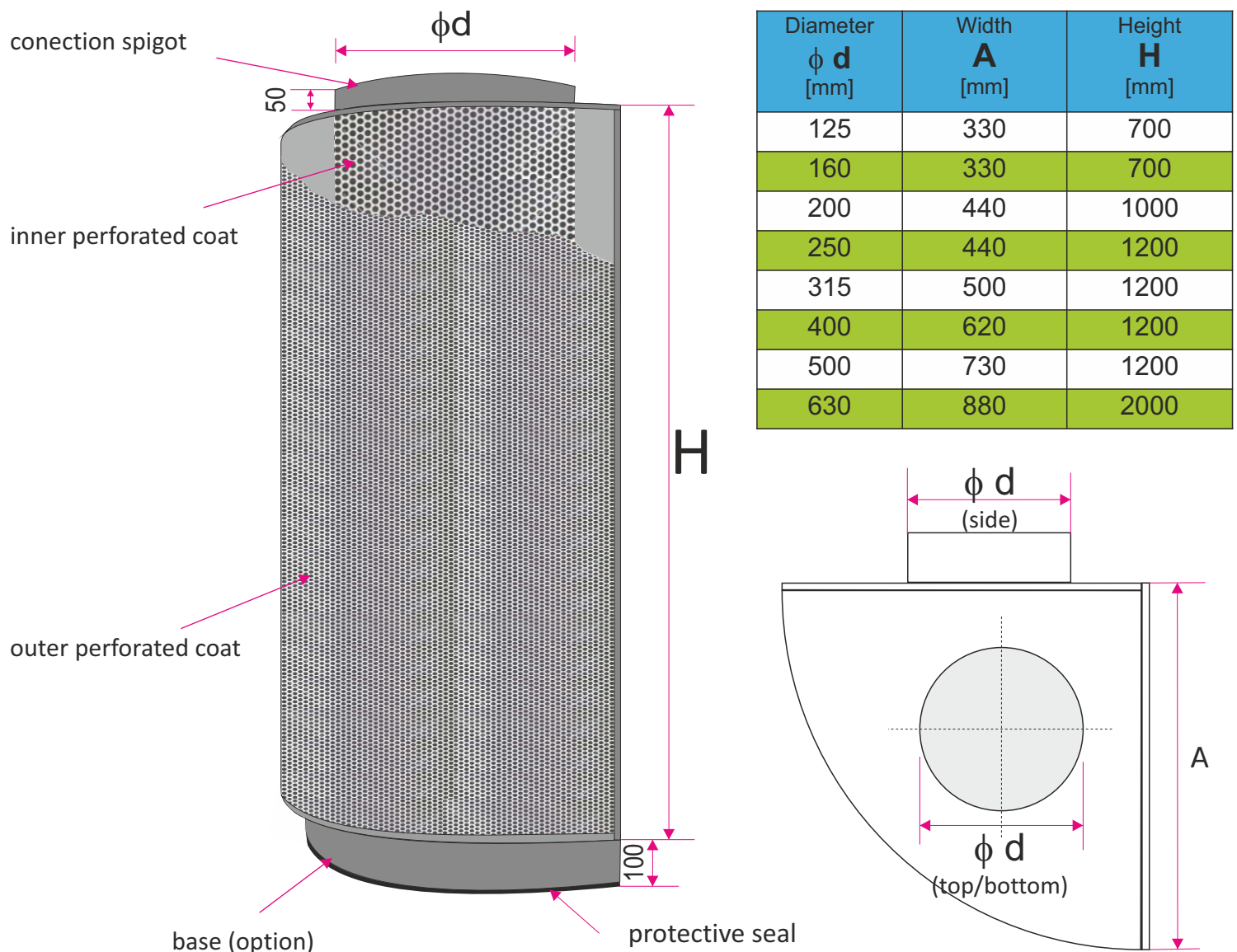
Displacement flow diffuser has Hygienic Certificate HK/K/0522/02/2016

## Description and application

The diffusers are made of double coating perforated sheet set on 1/4 circle and sides of the galvanized steel, powder coated all agreed RAL color. Spigot supply and diffuser pedestal are made of galvanized steel sheet, also powder coated in a selected color. NW-n are mounted in the corners of rooms on rectangular or circular ducts. There is a possibility the individual making of diffusers according to customer requirements.

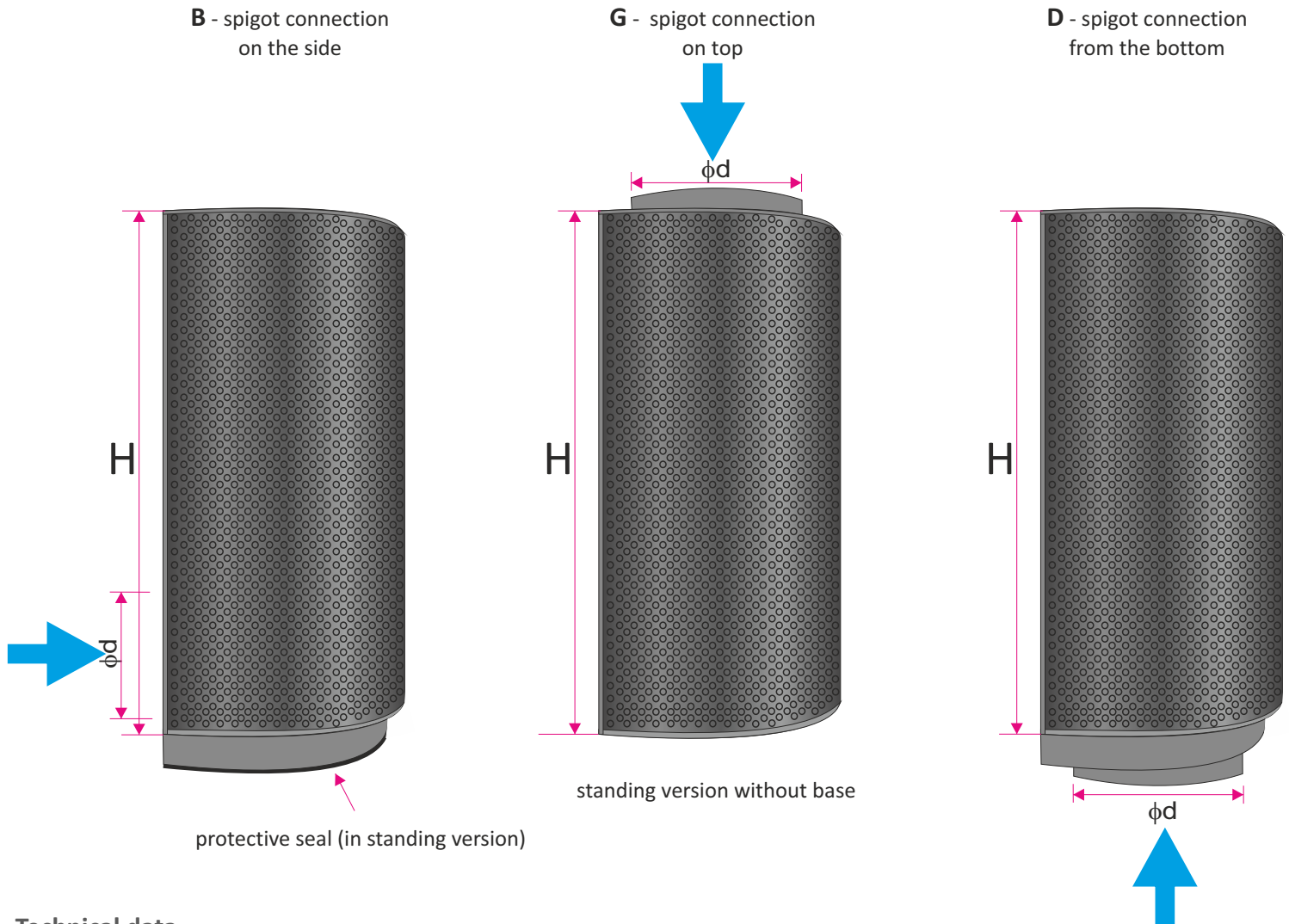
## Size

The dimensions according to the table in the product data sheet or individual order.



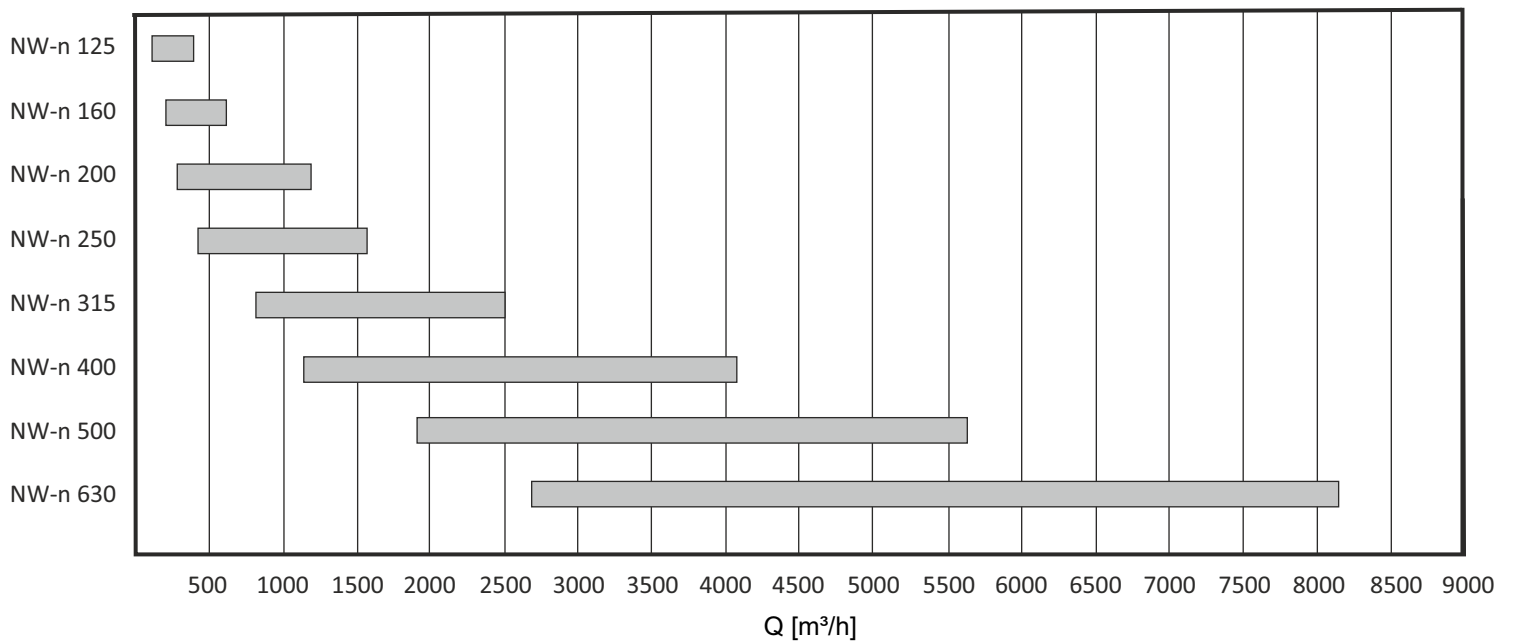
## Variants of realization / location

Corner displacement flow diffuser can be made in various connections to the installation:



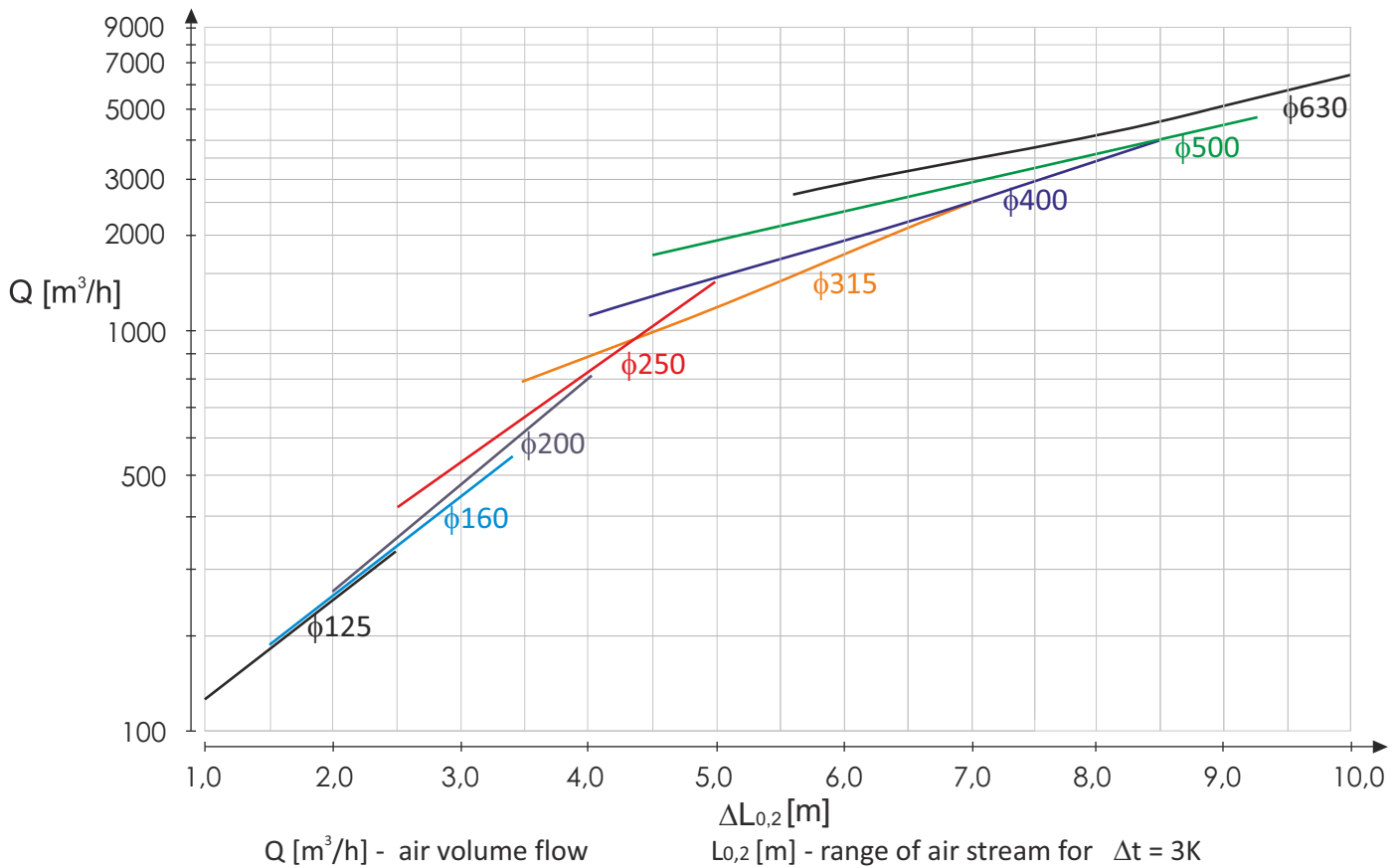
## Technical data

### Quick selection corner displacement flow diffuser NW-n

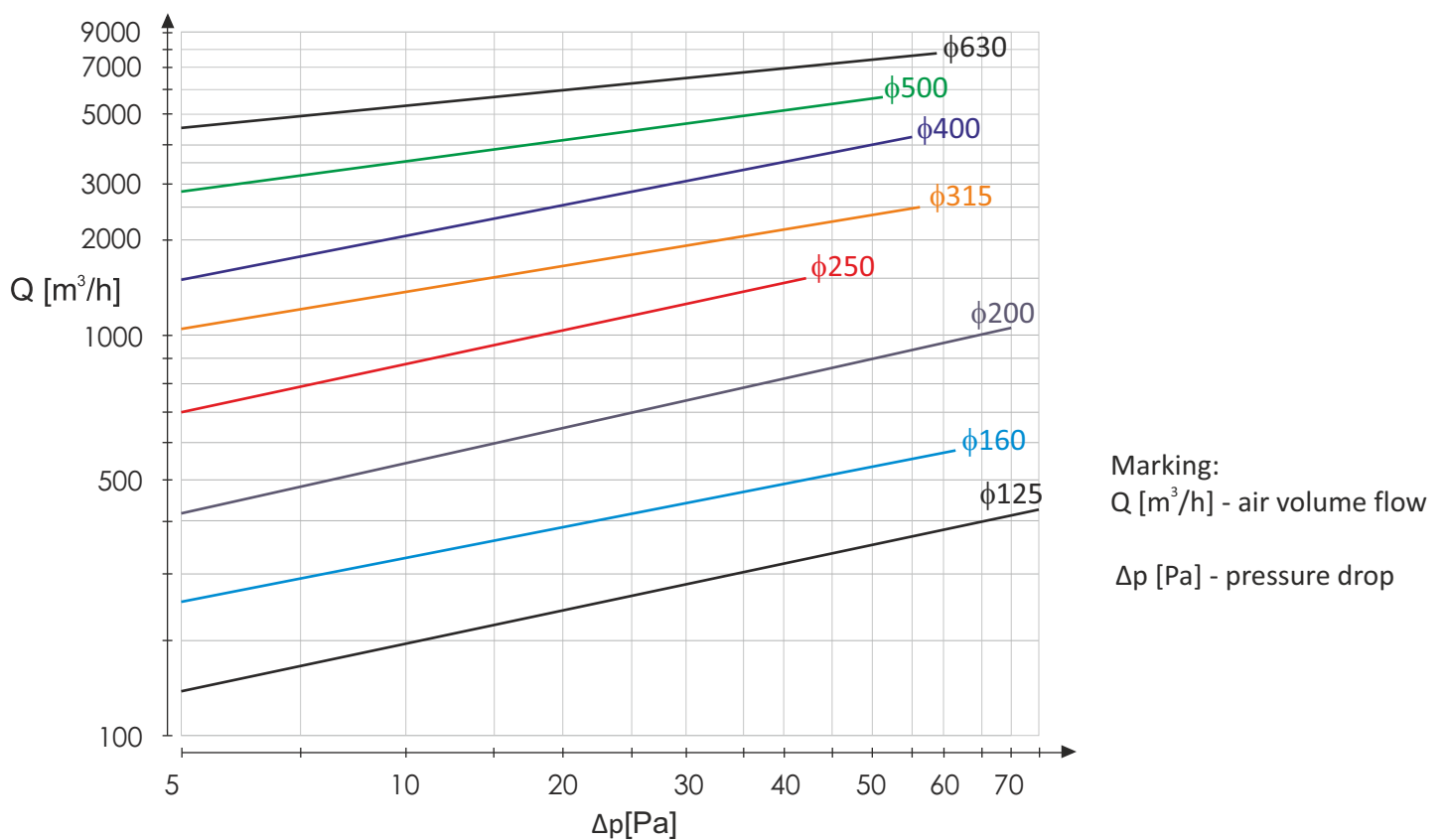


Technical data

Dependence the air stream range  $L_{0,2}$  [m] from air volume flow  $Q$  [m<sup>3</sup>/h]

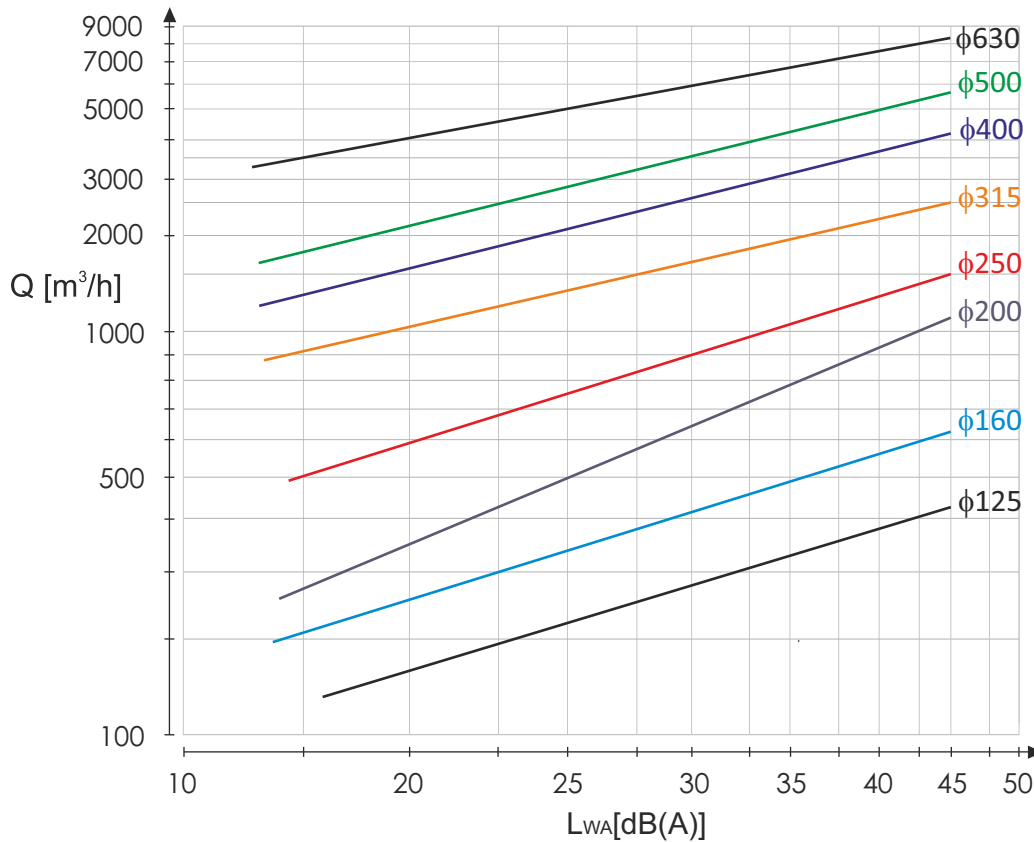


Dependence of pressure drop  $\Delta p$  [Pa] from air volume flow  $Q$  [m<sup>3</sup>/h]



Technical data

Dependence of acoustic power  $L_{WA}$  [dB(A)] from air volume flow  $Q$  [m<sup>3</sup>/h]



Marking:  
 $Q$  [m<sup>3</sup>/h] - air volume flow  
 $L_{WA}$ [dB(A)] - acoustic power

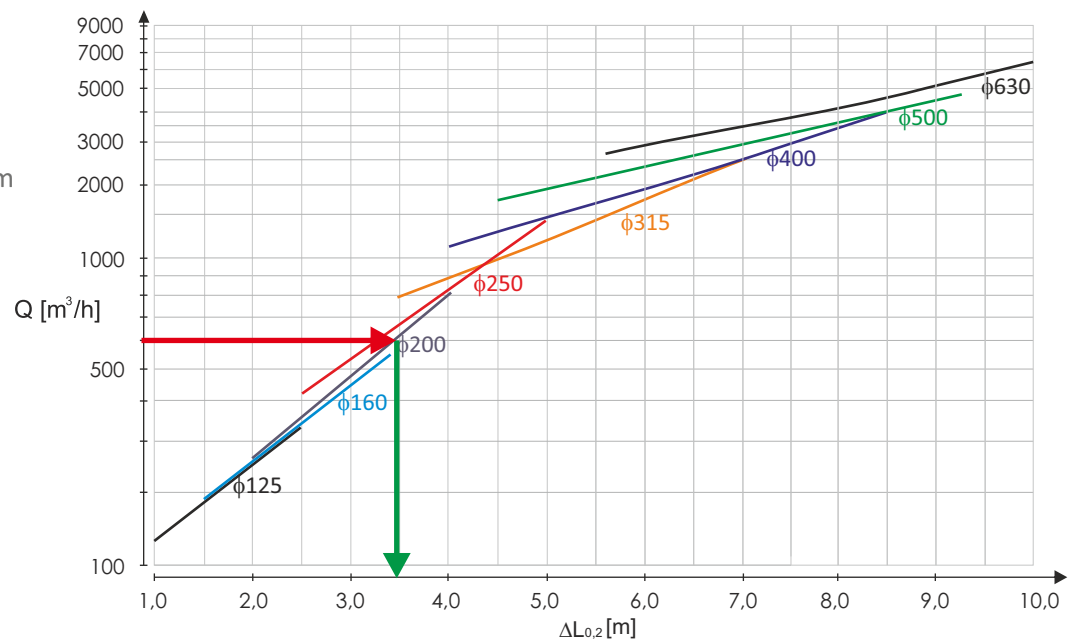
EXAMPLE

- air volume flow  $Q=600$  m<sup>3</sup>/h

Reading the graph:

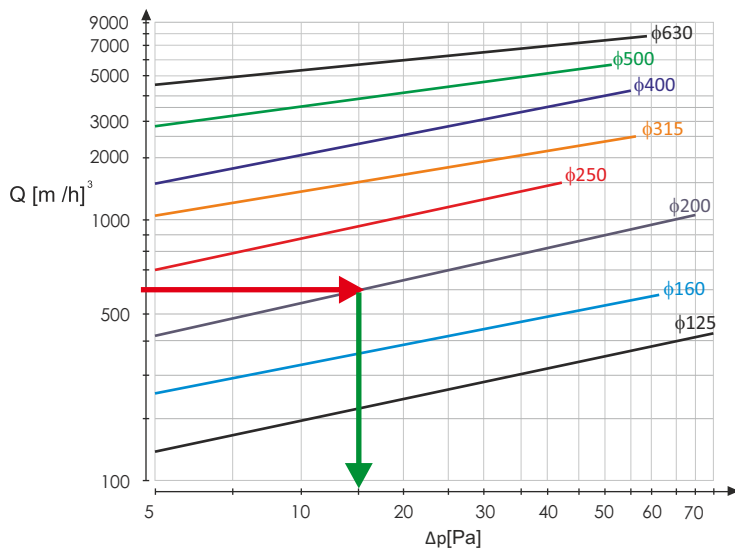
- diameter of the diffuser  $\phi d=200$  mm
- range of air stream  $\Delta L_{0,2}=3,5$  m

Dependence the air stream range  $L_{0,2}$  [m] from air volume flow  $Q$  [m<sup>3</sup>/h]

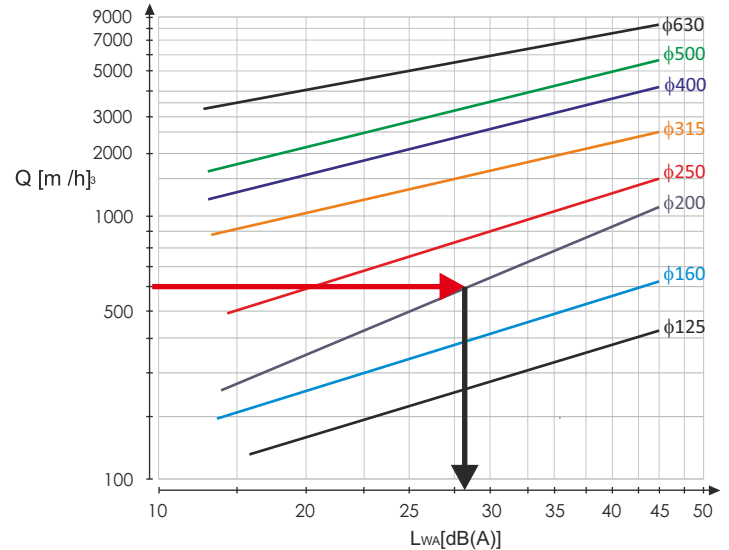


## Technical data

Dependence of pressure drop  $\Delta p$  [Pa] from air volume flow  $Q$  [m<sup>3</sup>/h]



Dependence of acoustic power  $L_{WA}$  [dB(A)] from air volume flow  $Q$  [m<sup>3</sup>/h]



### EXAMPLE

- Air volume flow  $Q=600$  m<sup>3</sup>/h

### Reading the graph:

- pressure drop on diffuser  $\Delta p=15$  Pa
- acoustic power  $L_{WA}=27$  dB

## The method of placing an order

Please make orders according to the following formula:

**NW-n / 'K' / 'φd' / 'H' / 'RAL' / 'M'**

- 'K' - position of connection spigot:  
**B** - side spigot  
**G** - top spigot \*  
**D** - bottom spigot
- 'φd' - diameter of diffuser connection spigot **125, 160, 200, 250, 315, 355, 400, 500 ...**
- 'H' - height of the diffuser \*
- 'RAL' - diffuser color RAL
- 'M' - material:  
**OC** - galvanized steel\*  
**AL** - aluminum powder coated  
**KO** - stainless steel (type 1.4301 or 1.4404)
- 'C' - accessories:  
**null** \*  
**C** - base (standing version)

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