Corner displacement flow diffuser NW-n

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 theextract air openings.

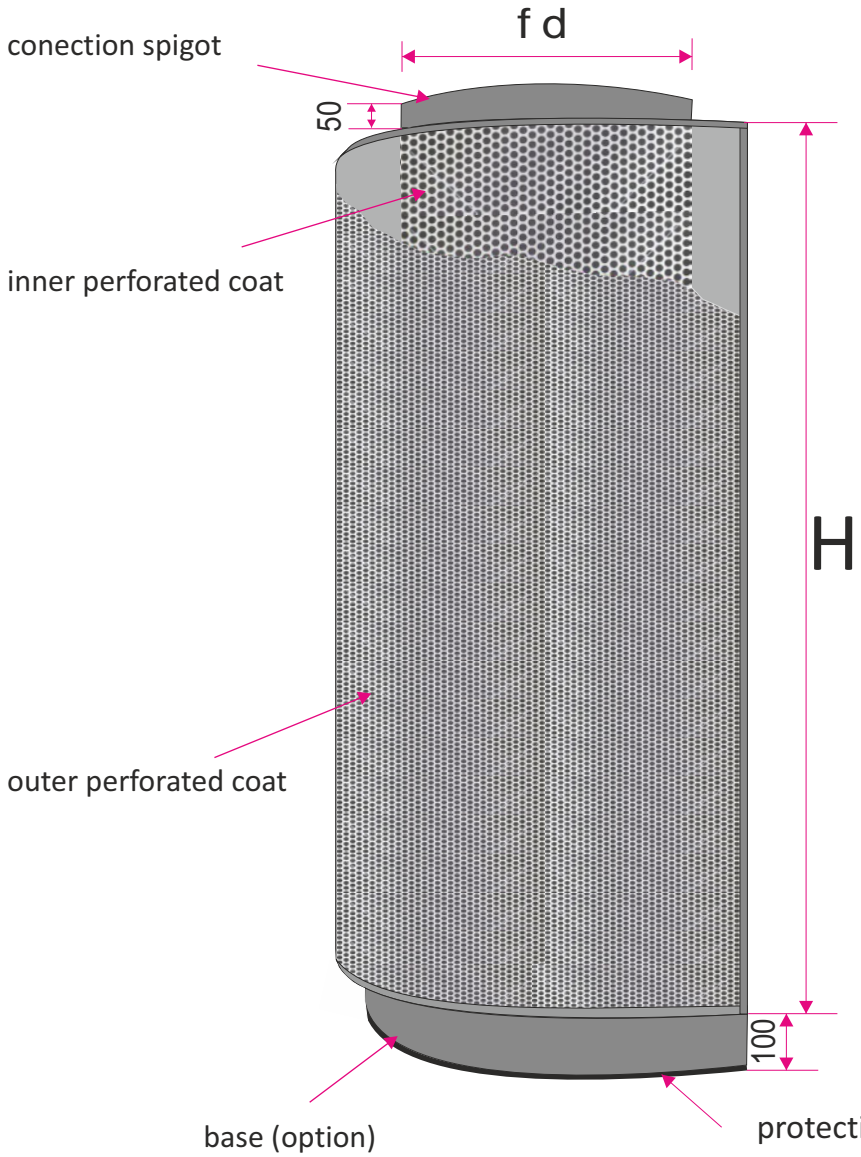
Displacement flow diffuser has Hygienic Certificate

Description and application

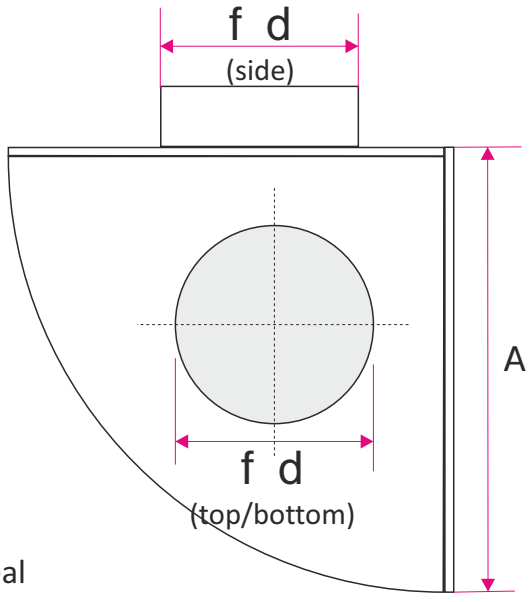
The diffusers are made of double coating perforated sheet set on 1/4 circle and sides of the galvanized steel, powder coated all agreed RAL color. Spigot supply and diffuser pedestal are made of galvanized steel sheet, also powder coated in a selected color. NW-n are mounted in the corners of rooms on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

Size

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



Diameter f d [mm]	Width A [mm]	Height H [mm]
125	330	700
160	330	700
200	440	1000
250	440	1200
315	500	1200
400	620	1200
500	730	1200
630	880	2000



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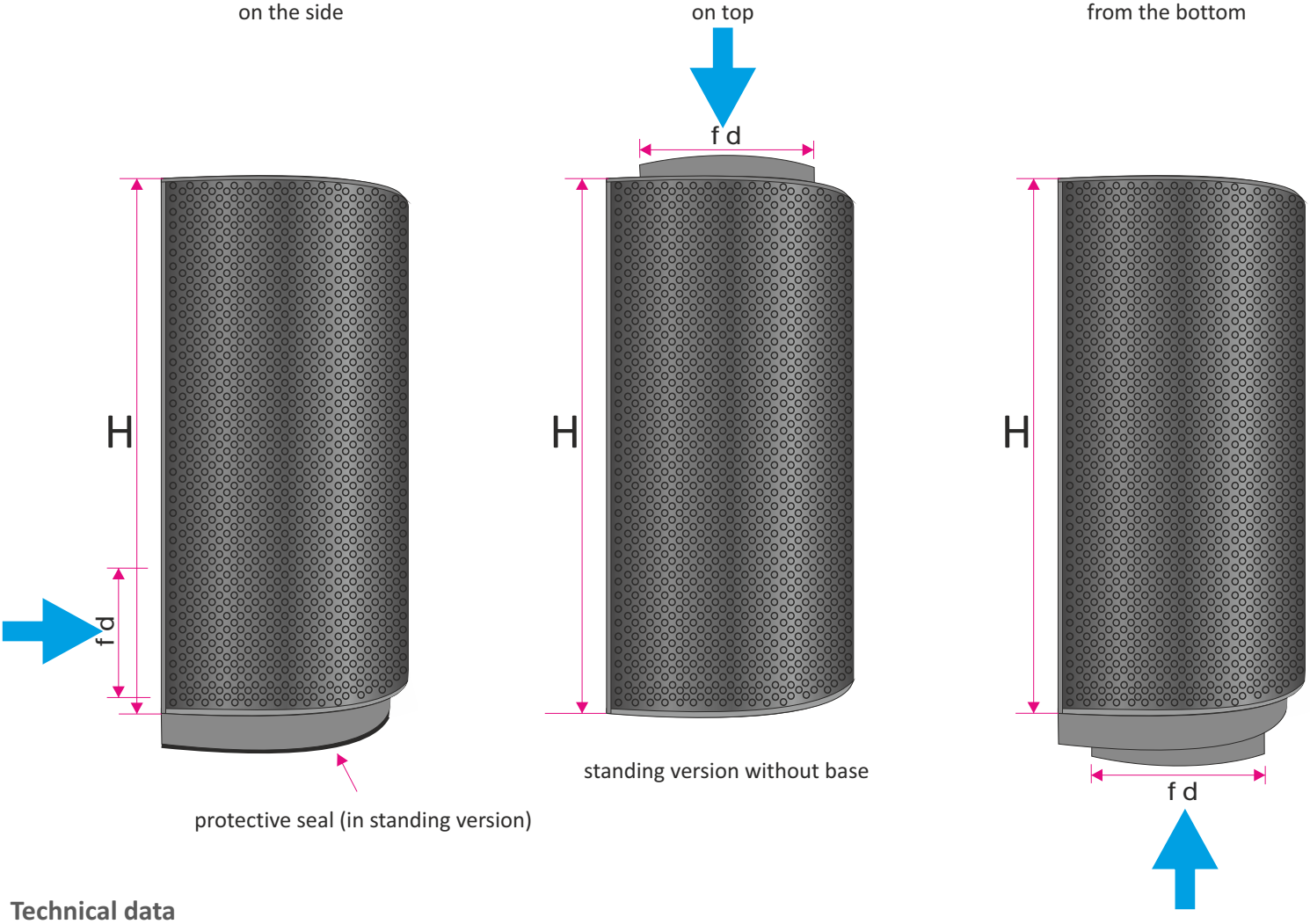
Variants of realization / location

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

B - spigot connection on the side

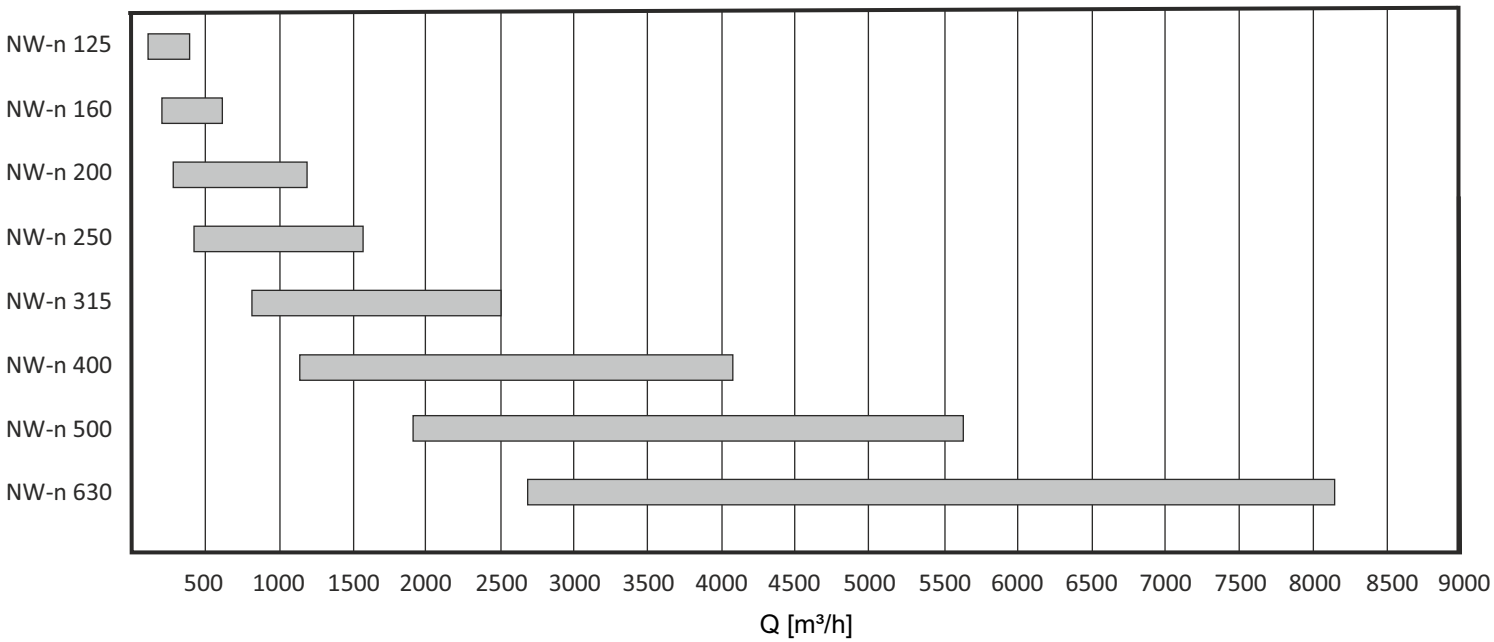
G - spigot connection on top

D - spigot connection from the bottom



Technical data

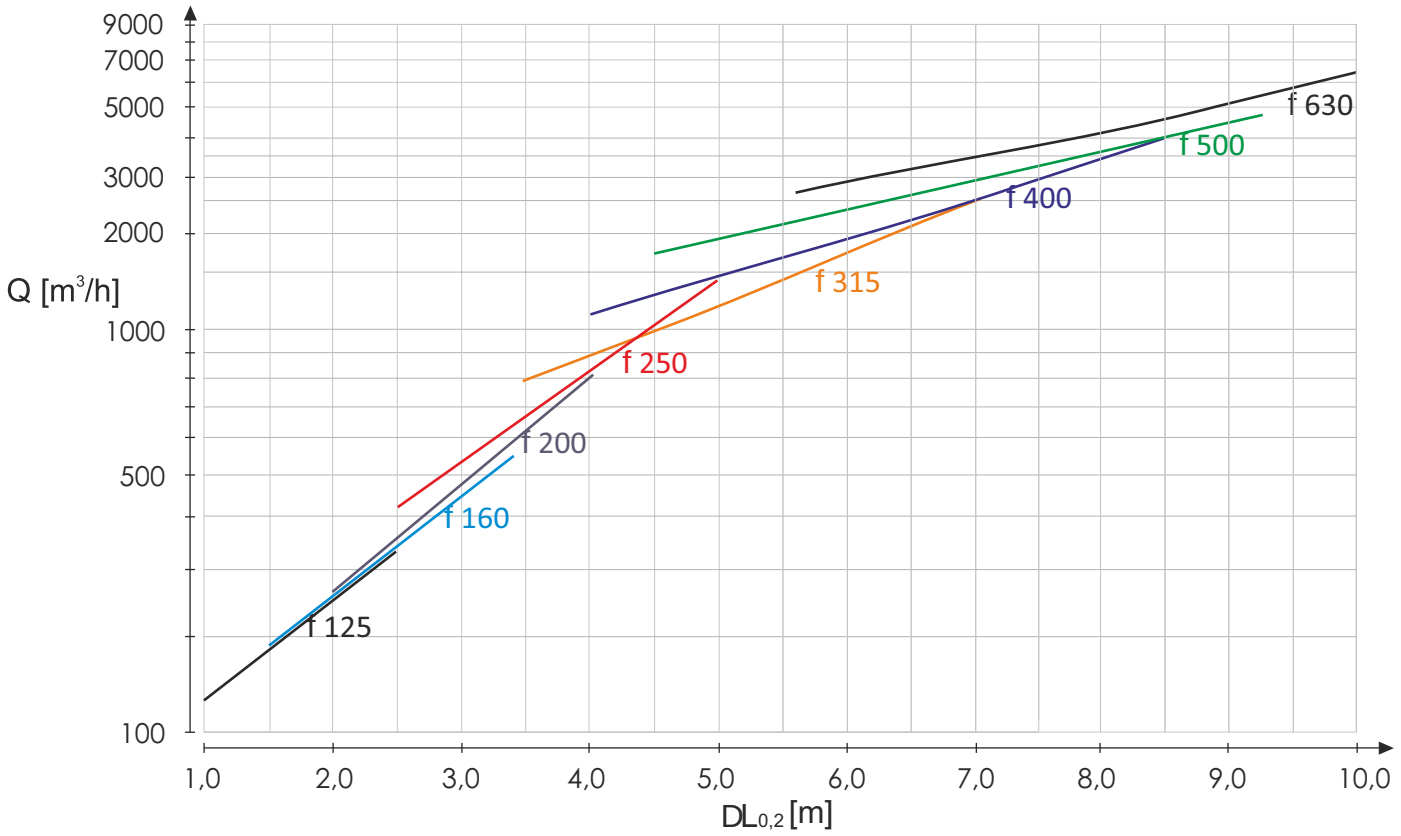
Quick selection corner displacement flow diffuser NW-n



Corner displacement flow diffuser NW-n

Technical data

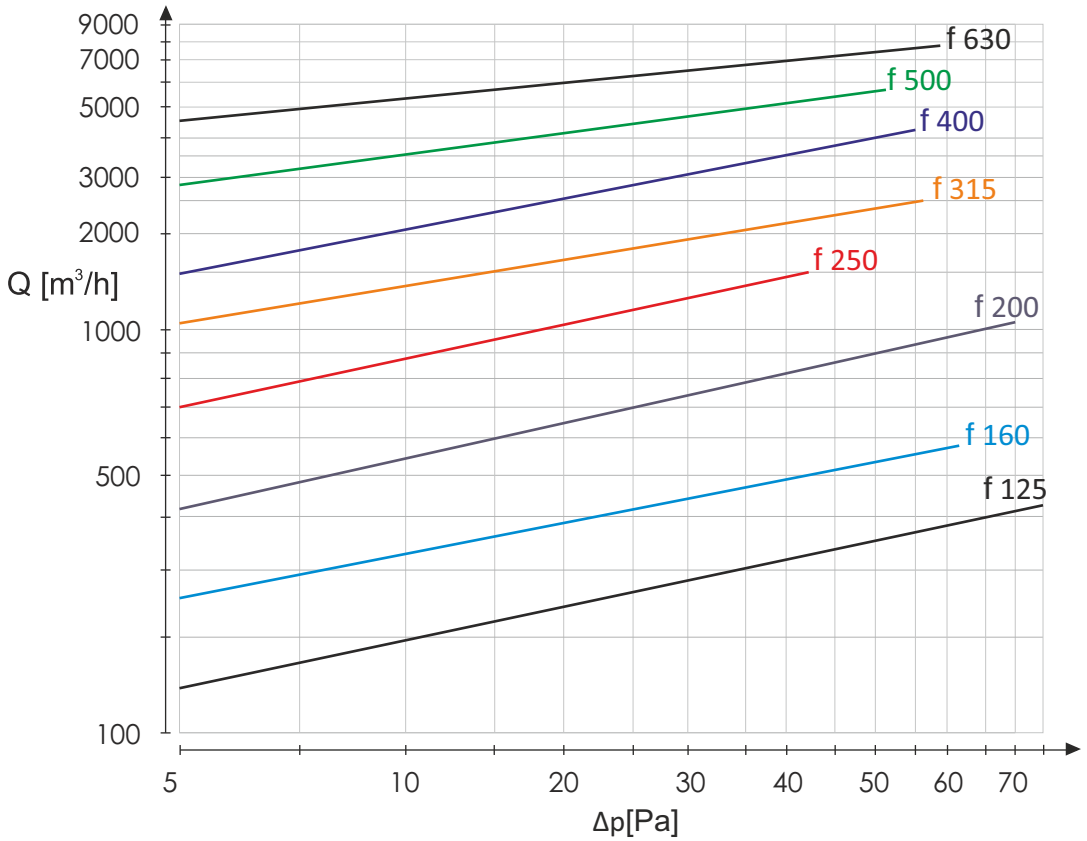
Dependence the air stream range $L_{0,2}$ [m] from air volume flow Q [m^3/h]



Q [m^3/h] - air volume flow

$L_{0,2}$ [m] - range of air stream for Dt = 3K

Dependence of pressure drop Δp [Pa] from air volume flow Q [m^3/h]

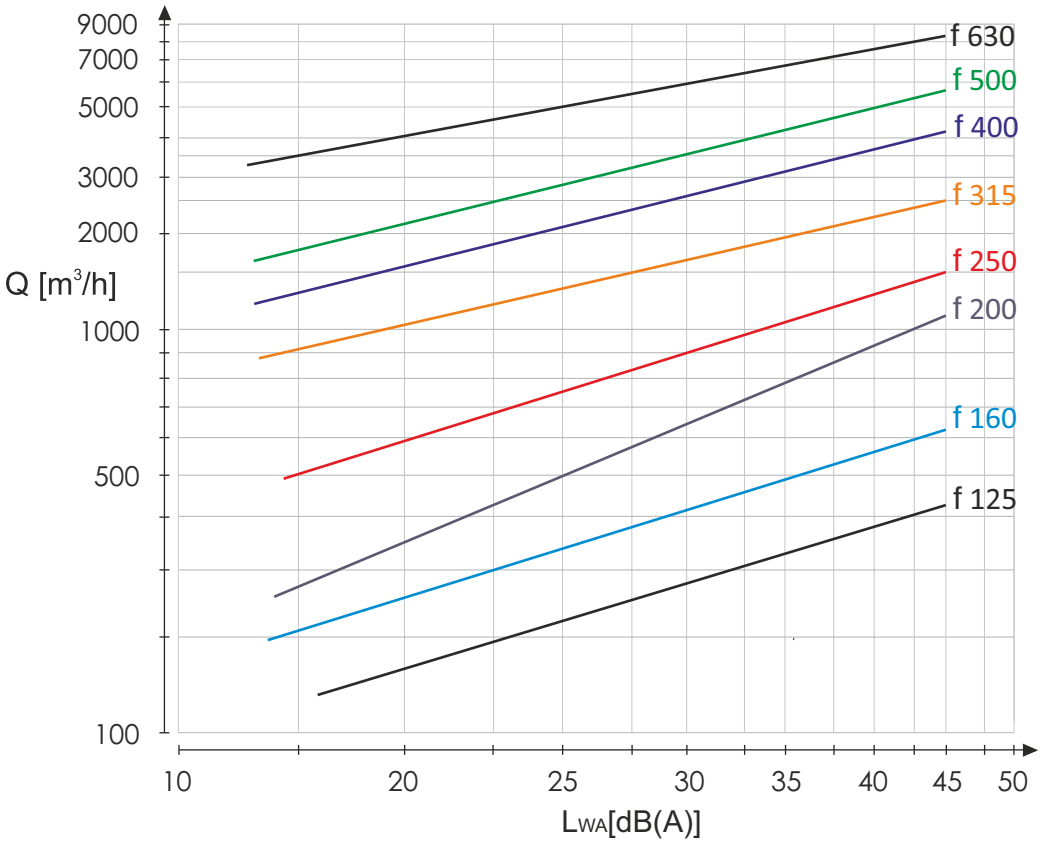


Marking:
Q [m^3/h] - air volume flow

Δp [Pa] - pressure drop

Technical data

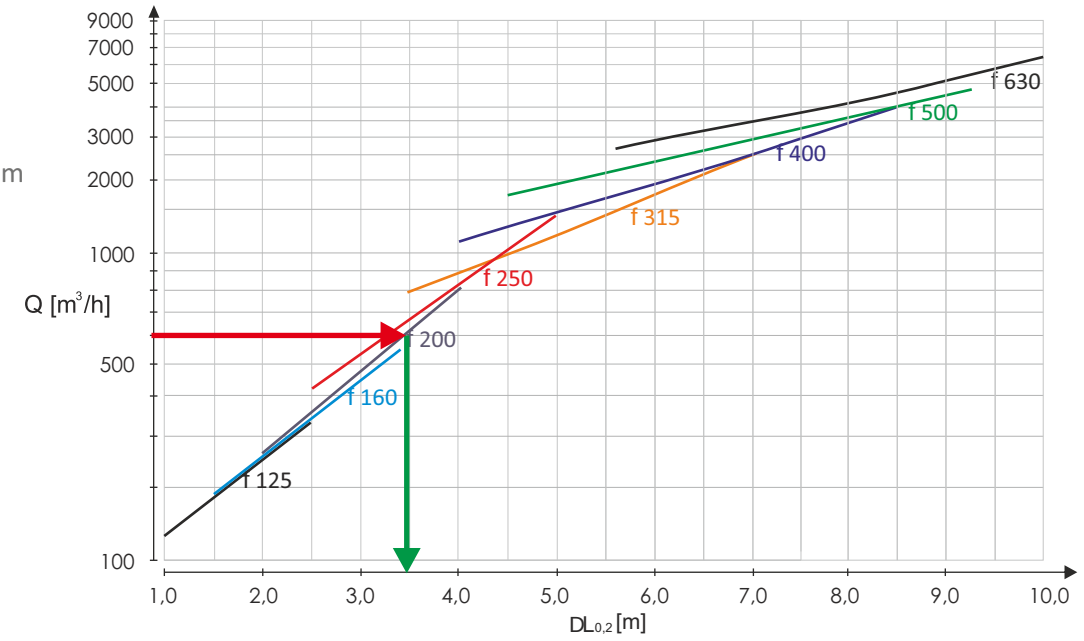
Dependence of acoustic power L_{WA} [dB(A)] from air volume flow Q [m^3/h]



Marking:
Q [m^3/h] - air volume flow

L_{WA}[dB(A)] - acoustic power

Dependence the air stream range L 0,2 [m] from air volume flow Q [m^3/h]



EXAMPLE

- air volume flow Q=600 m^3/h

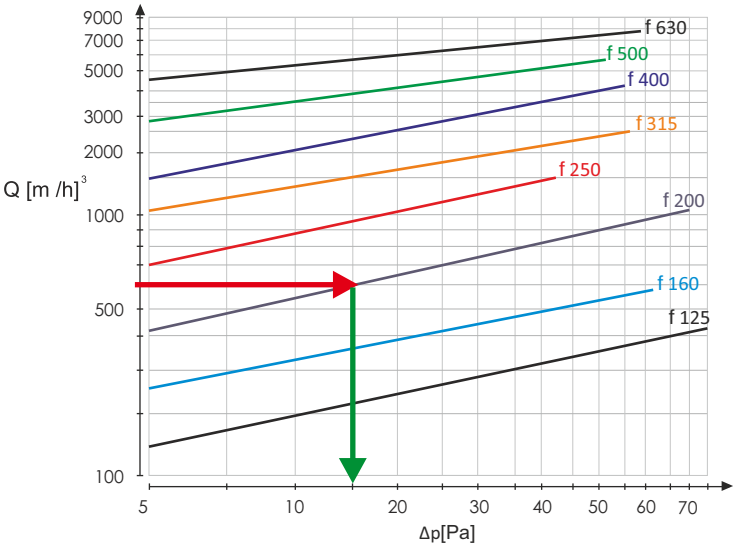
Reading the graph:

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

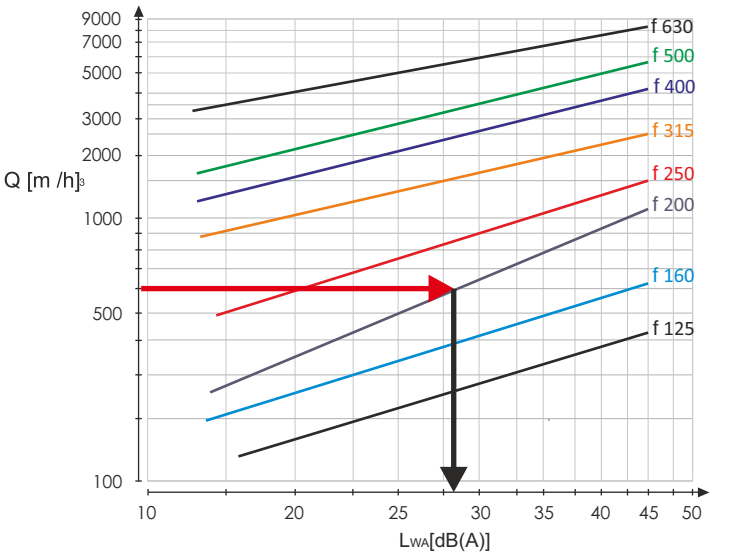
Corner displacement flow diffuser NW-n

Technical data

Dependence of pressure drop Δp [Pa] from air volume flow Q [m³/h]



Dependence of acoustic power L_{WA} [dB(A)] from air volume flow Q [m³/h]



EXAMPLE

- Air volume flow Q=600 m³/h

Reading the graph:

- pressure drop on diffuser Δp=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' / 'f d' / 'H' / 'RAL' / 'M'

'K'	- position of connection spigot: **B** - side spigot **G** - top spigot * **D** - bottom spigot
'f d'	- 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.