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.
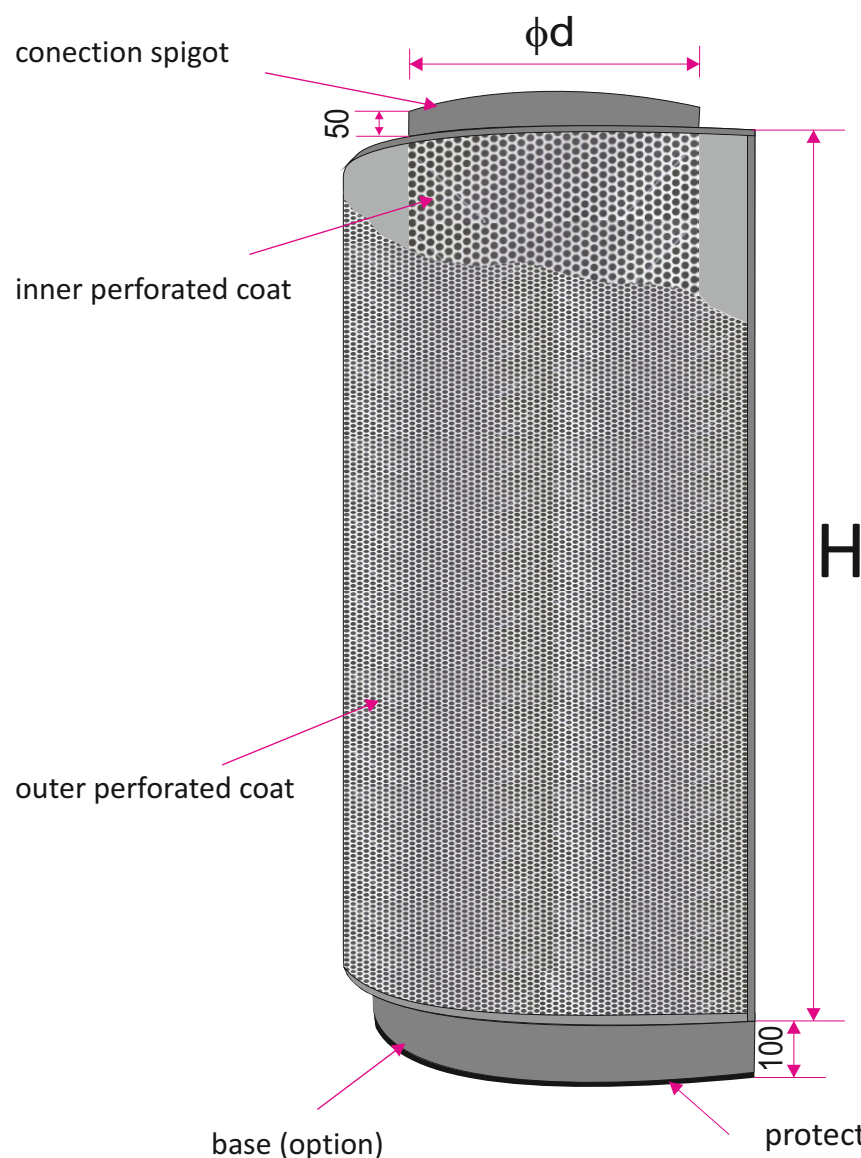
Displacement flow diffuser has Hygienic Certificate HK/K/0522/02/2016
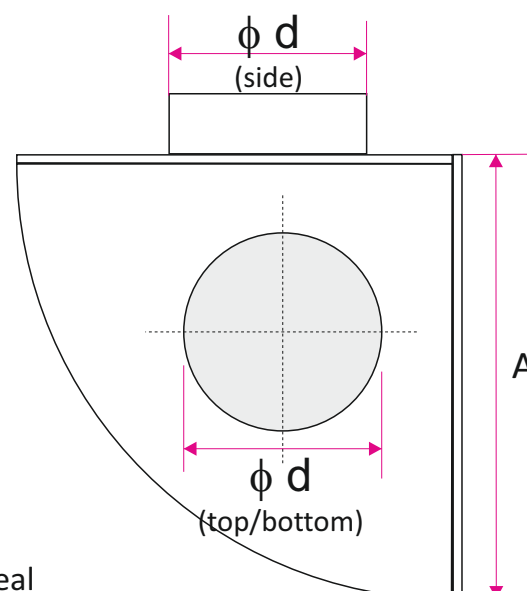
Description and application

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.
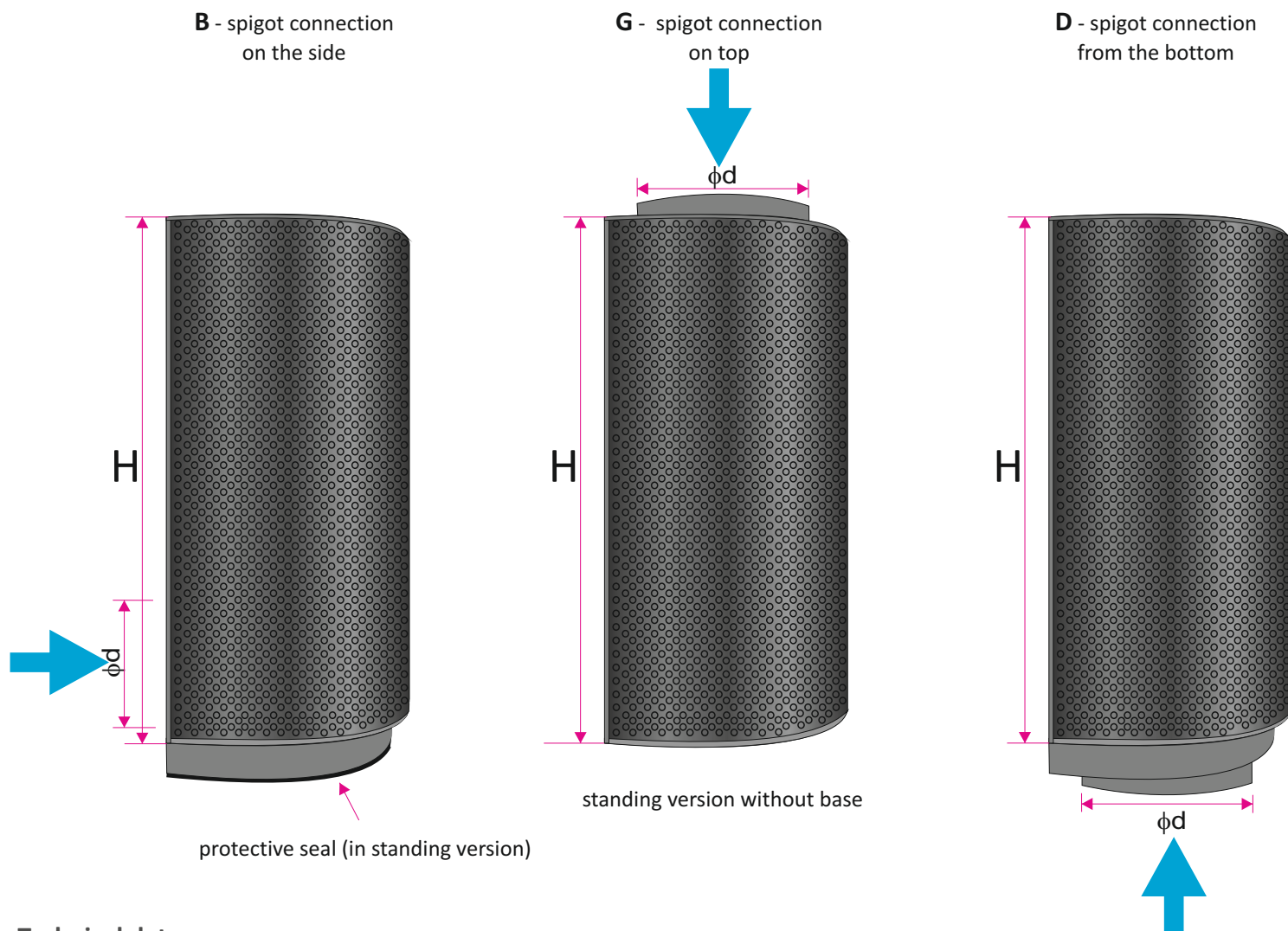

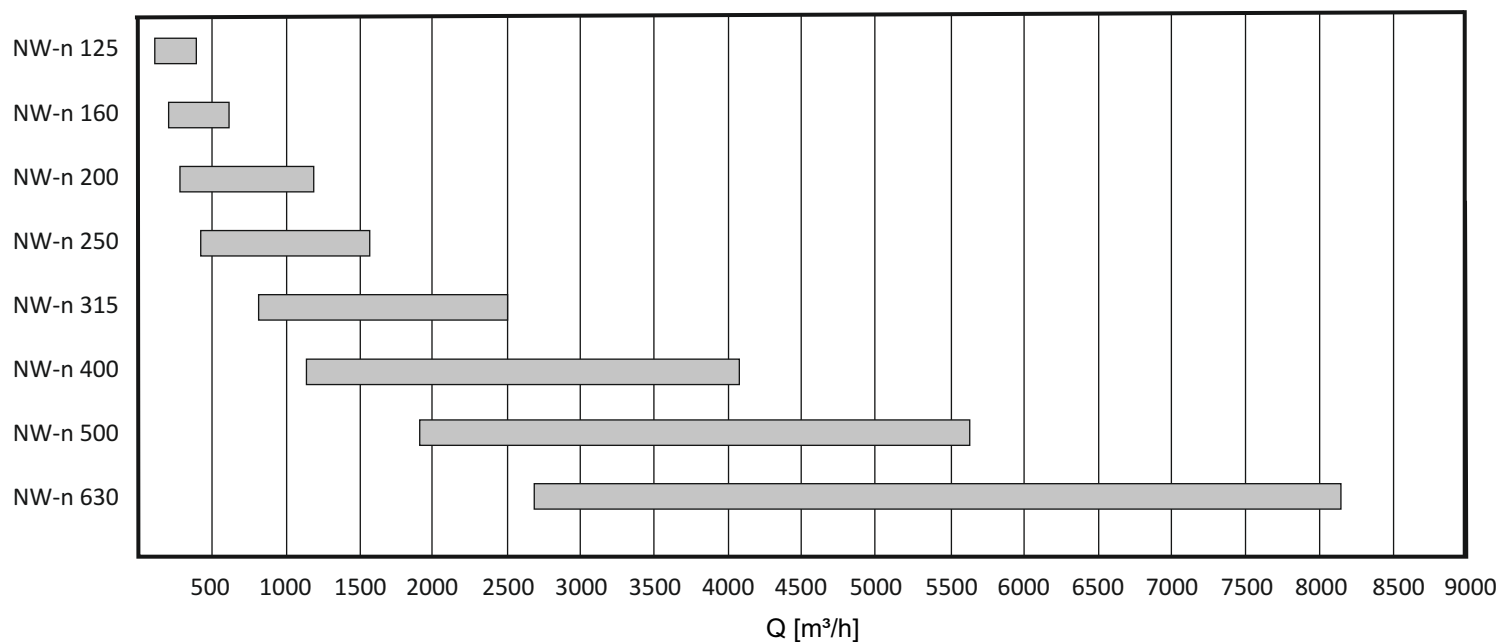| Diameter ϕ d [mm]	Width A [mm]	Height H [mm]
125	330	700
160	330	700
200	440	1000
250	440	1200
315	500	1200
400	620	1200
500	730	1200
630	880	2000

Variants of realization / location

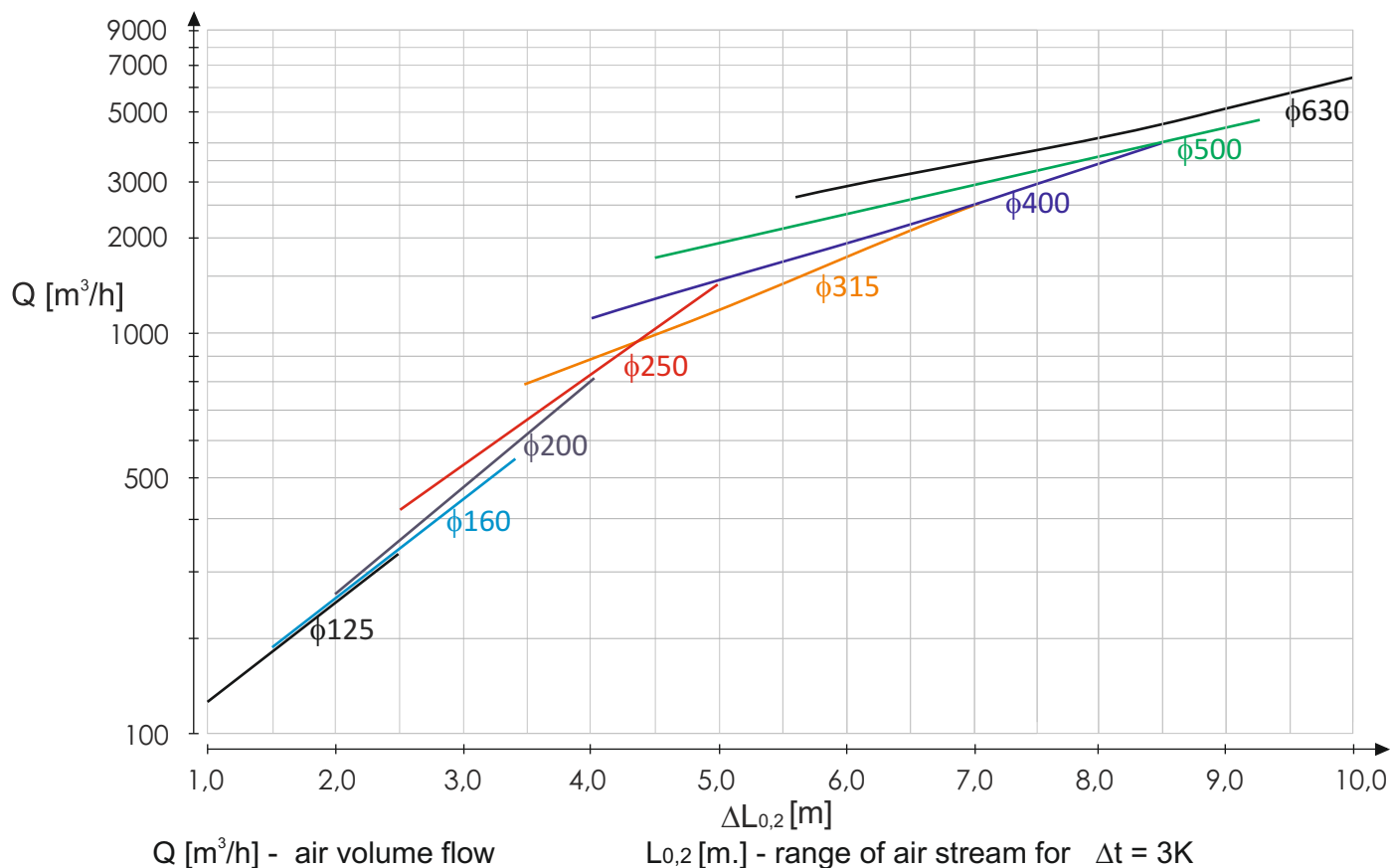Corner displacement flow diffuser can be made in various connections to the installation:

B - spigot connection
on the side

G - spigot connection
on top

D - spigot connection
from the bottom

ϕd

H

H

H

ϕd

ϕd

protective seal (in standing version)

standing version without base

Technical data

Quick selection corner displacement flow diffuser NW-n

| Q [m³/h] | | | | | | | | | | | | | | | | | |

NW-n 125
NW-n 160
NW-n 200
NW-n 250
NW-n 315
NW-n 400
NW-n 500
NW-n 630

500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000

Q [m³/h]

Technical data

Dependence the air stream range L $_{0,2}$ [m] from air volume flow Q [m³/h]

Q [m³/h] - air volume flow   L$_{0,2}$ [m.] - range of air stream for Δt = 3K

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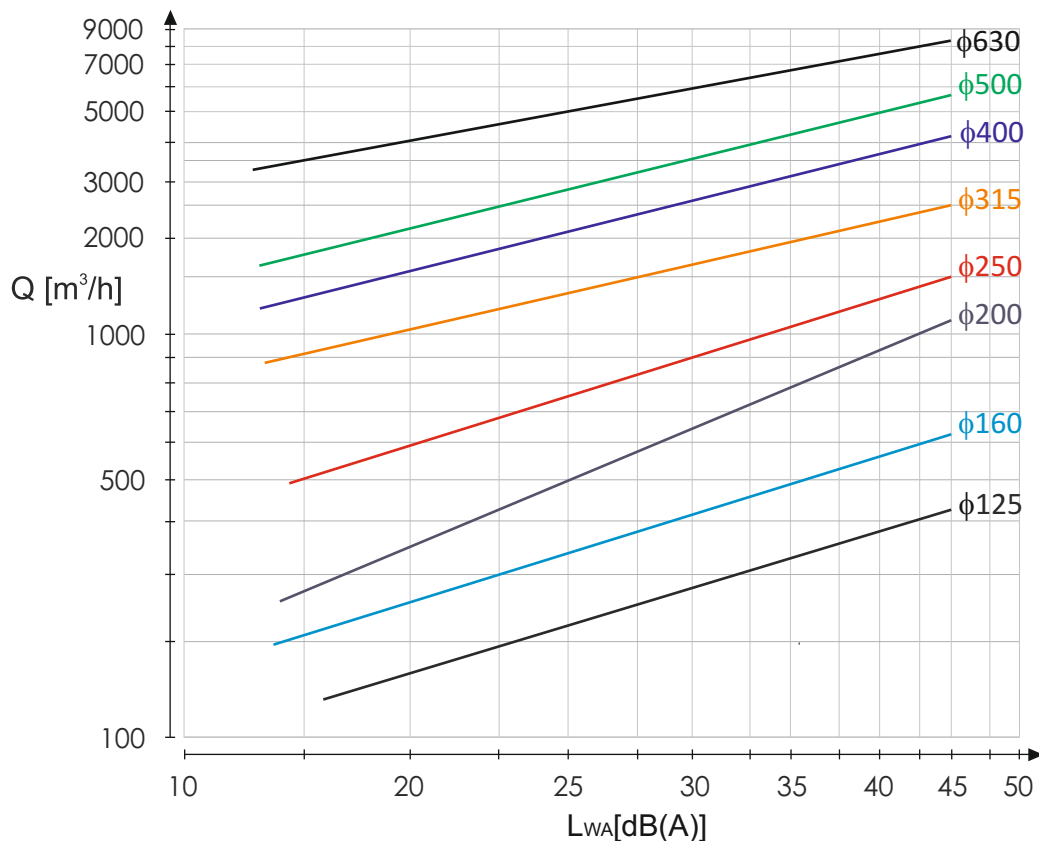

Marking:
Q [m³/h] - air volume flow

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
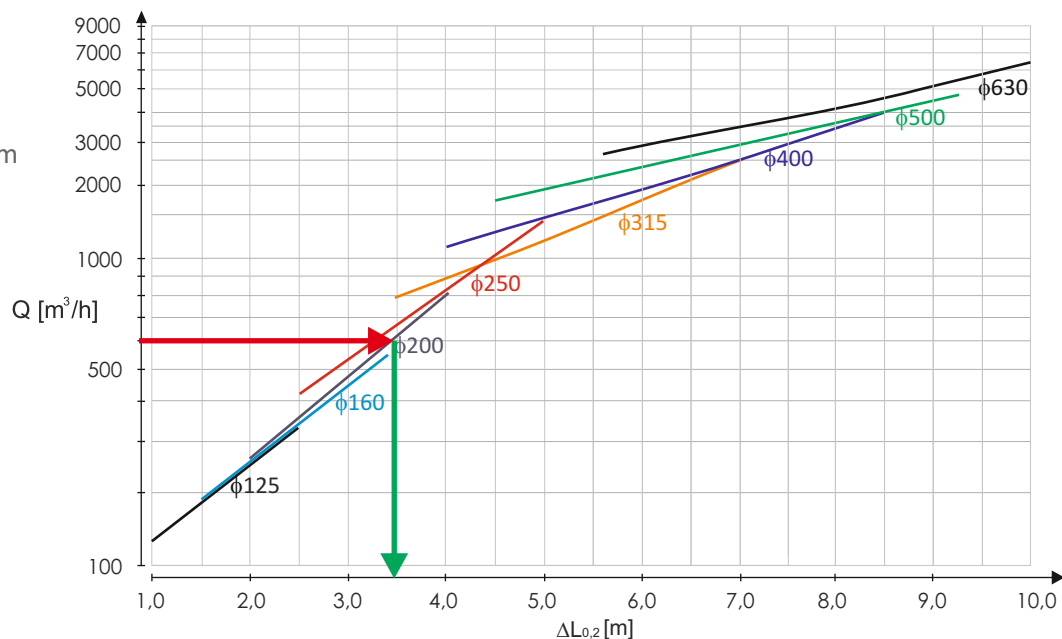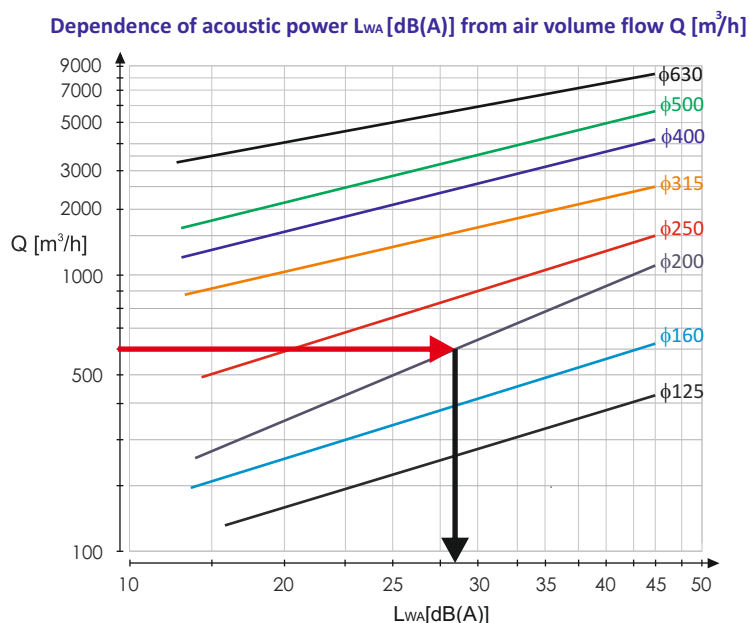
L$_{WA}$[dB(A)] - acoustic power
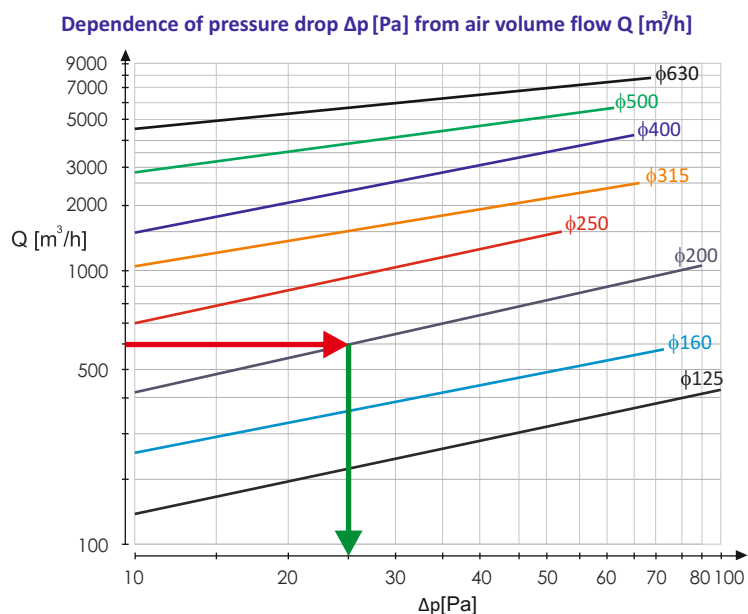
EXAMPLE

• air volume flow Q=600 m^3/h

Reading the graph:

• diameter of the diffuser ϕd=200 mm
• range of air stream ΔL$_{0,2}$=3,5 m

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

SAW-POL

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=25 Pa
• acoustic power L_{WA}<28 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.