

### Characteristics

Swirl diffuser DVSE is used as supply air diffuser for heating and cooling. This type of diffuser is intended for ceiling fixing. The height of mounting could be from 2,6 to 5,0 m above the floor. Front diffuser plate is made from of sheet steel.

### Standard finish

Powder coating, RAL 9010

### Material

Steel.

### Finish

Painted white RAL 9010.

### Fixing

Fixing by concealed fixing screws inserted in the diffuser neck.

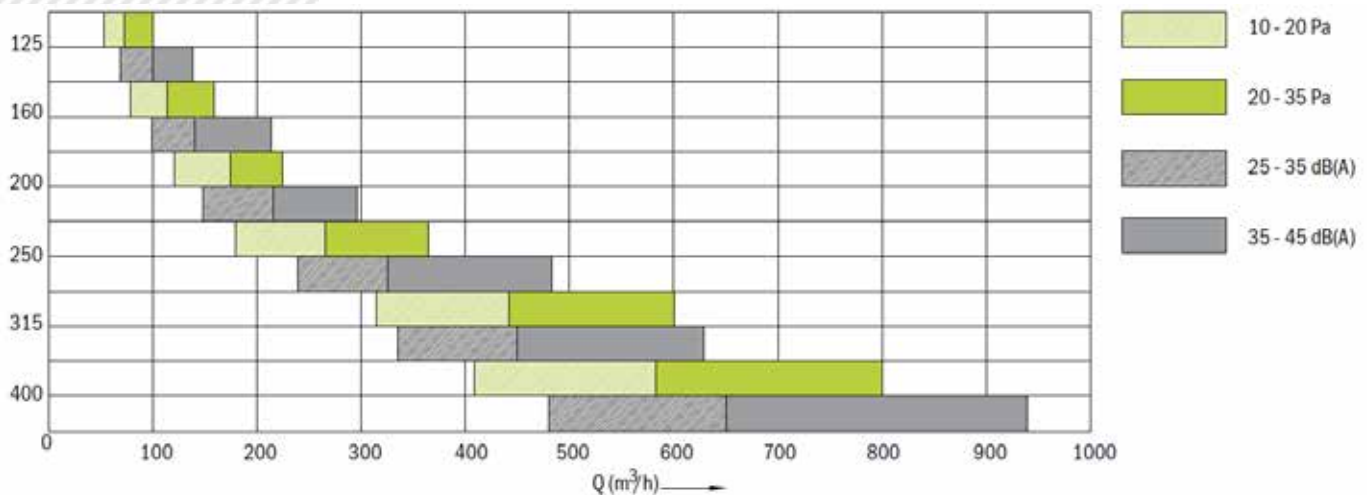
### Models

DVSE-R: Fixed geometry swirl diffuser with nozzle. DVSE-C: Fixed geometry swirl diffuser without nozzle. DVSE-FP: Fixed geometry swirl diffuser on panel 595x595 mm.

### Accessories

Connection + Equalizer  
K: Connection Plenum

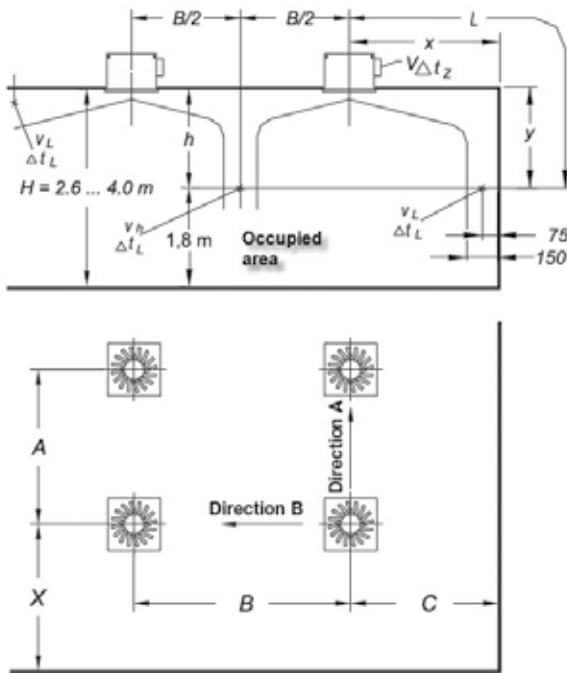
### Quick selection diagram



## Dimensions Ø [mm]

Ø = 125 160 200 250 315 400

Grösse	D	D1	D2	H1	H2
100	98	152		66	
125	123	201	160	66	51
160	158	252	198	66	51
200	198	302	242	66	51
250	248	352	296	66	51
315	313	452	365	90	51

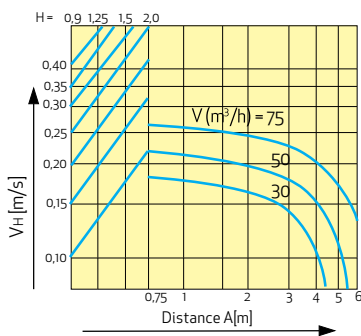


### Description

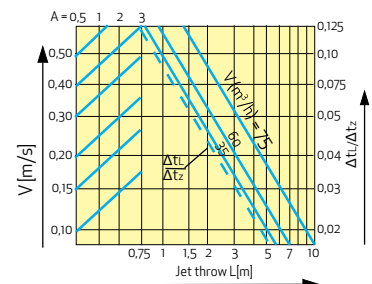
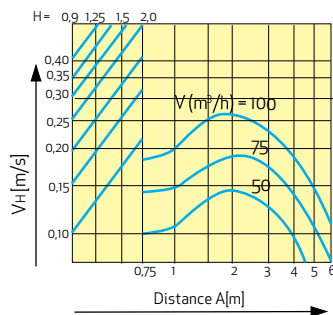
- V [m<sup>3</sup>/h] - volume flow
- y [m] - vertical jet throw
- x [m] - horizontal jet throw
- A, B [m] - distance between diffusers
- C, X [m] - distance between wall and diffuser
- L [m] - total jet throw
- V<sub>L</sub> [m/s] - mean jet velocity L (at the wall)
- h [m] - distance between difuser and occupied area
- V<sub>h</sub> [m/s] - mean jet velocity between two diffusers at distance h
- t<sub>z</sub> [°C] - supply air temperature
- t<sub>p</sub> [°C] - room air temperature
- t<sub>m</sub> [°C] - air stream temperature
- Δt<sub>z</sub> [K] - difference between room temperature and supply air temperature
- Δt<sub>L</sub> [K] - difference between air stream temperature and room temperature
- Δp<sub>t</sub> [Pa] - total pressure drop
- L<sub>WA</sub> - [dB(A)] - sound power level

## A. Air delivery velocity and temperature quotient $\Delta t_L / \Delta t_z$ for diffusers DVSE

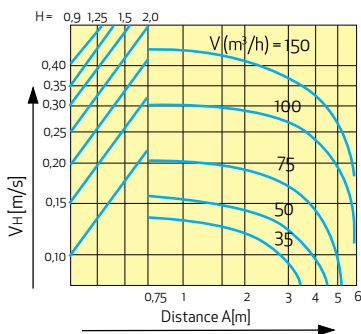
size 100 B < 4m



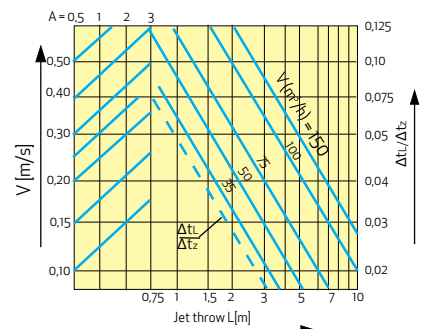
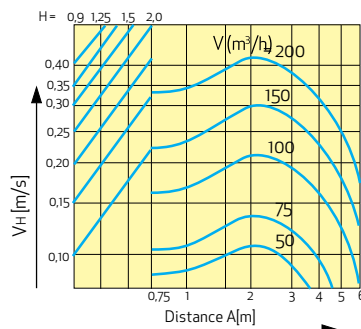
size 100 B > 4m

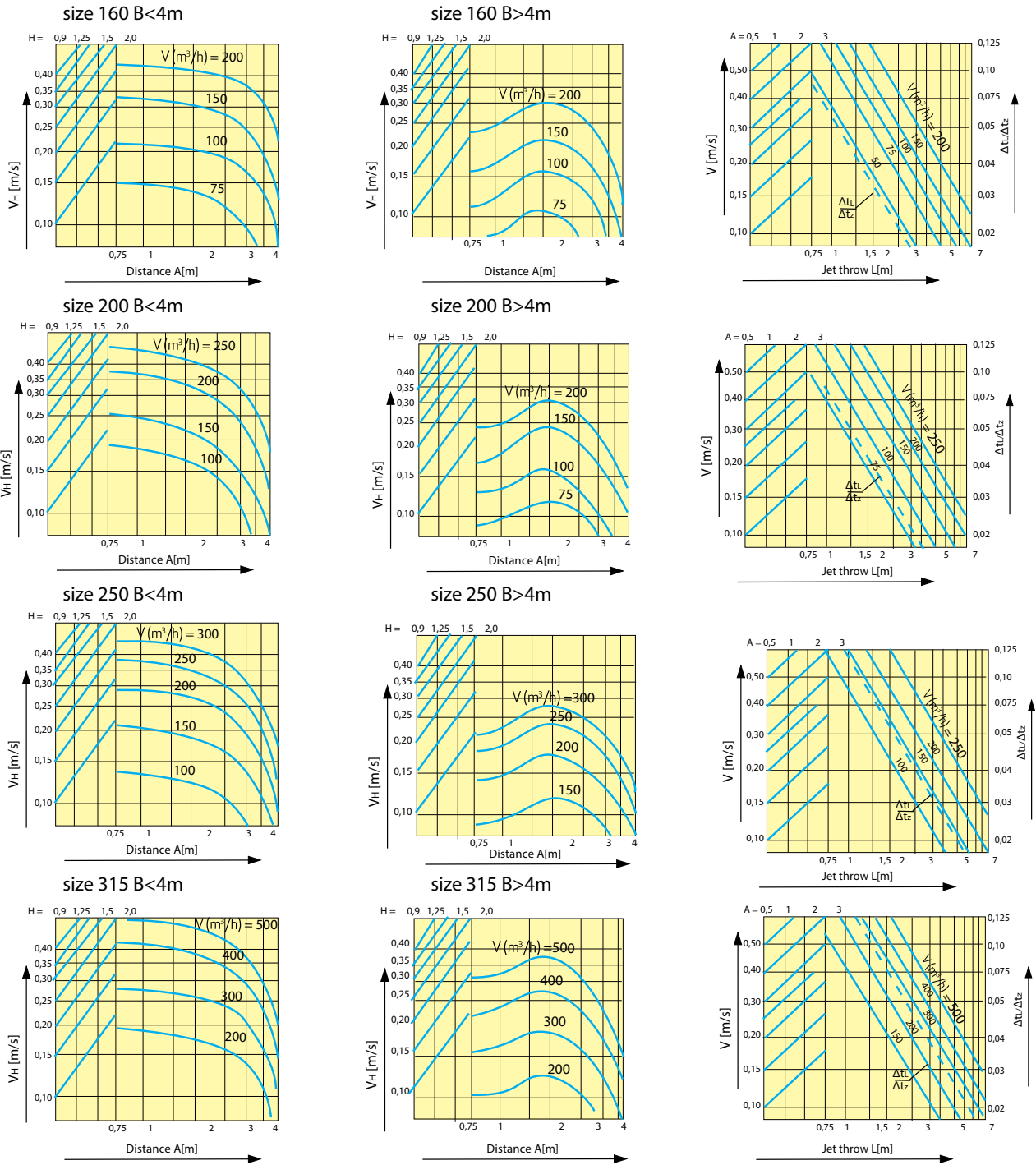


size 125 B < 4m



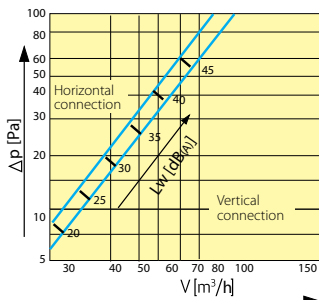
size 125 B > 4m



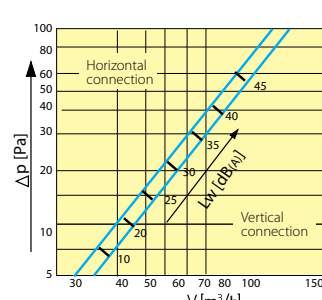


## B. Pressure drop and sound power level

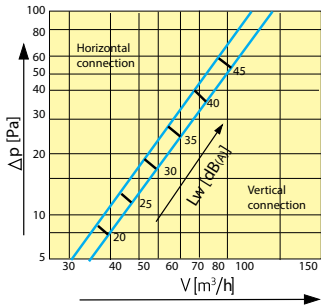
size 100 without nozzle



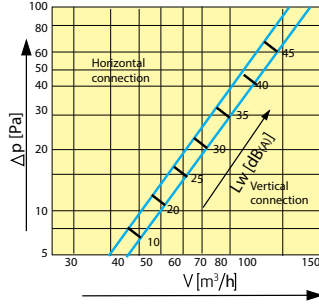
size 100 with nozzle



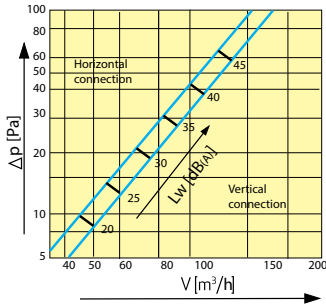
size 125 without nozzle



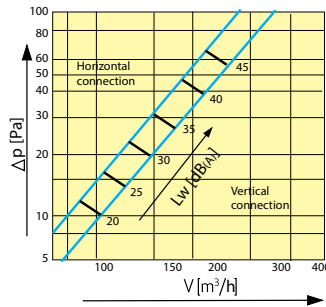
size 125 with nozzle



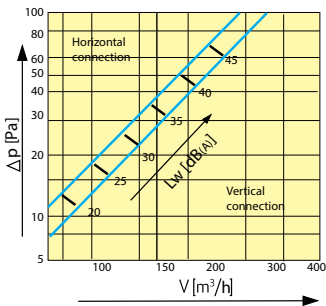
size 160 without nozzle



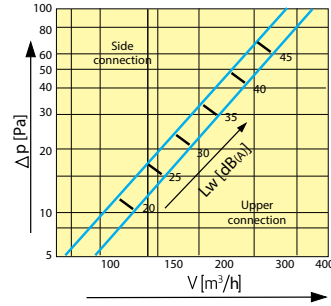
size 160 with nozzle



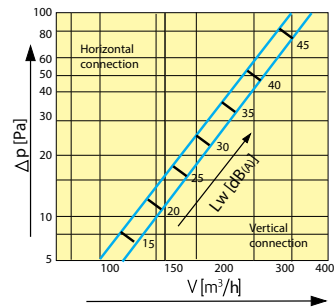
size 200 without nozzle



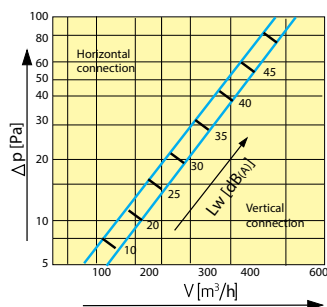
size 200 with nozzle



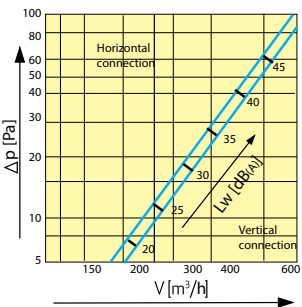
size 250 without nozzle



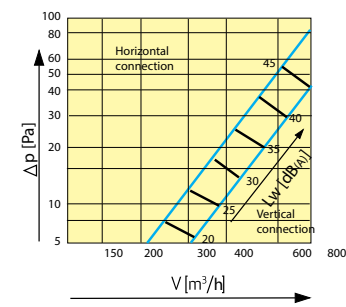
size 250 with nozzle



size 315 without nozzle



size 315 with nozzle



Ordering key

**DVSE - R - S - PL / 315**

