

# HOSPITAL GRADE MUFFLERS

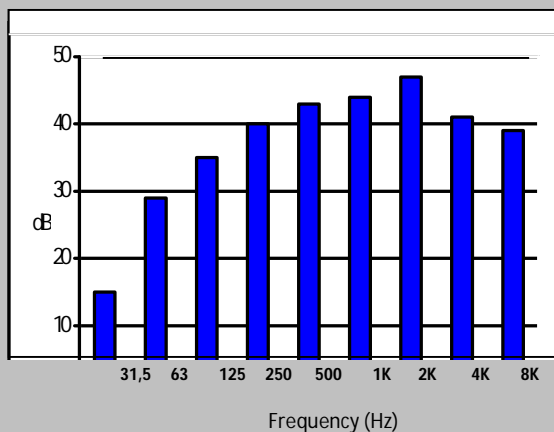
## Type NCS45

Novetec type NCS45 silencers are combined reactive-/absorptive silencers with a high attenuation, approx. 45 dB, across the entire frequency range, in combination with limited dimensions. This silencer is optionally available with an integrated sparkarrester. The silencers can be mounted in both horizontal and vertical way. In general, the silencers are manufactured in mild steel (S 235 JR G2) and provided with a black heat resistant silicon coating. The silencers are optionally also available in other material such as stainless steel 304, 321 and 316.



The pressure drop of the silencer is depending of the exhaust flow (gasvelocity) through the silencer. With the help of below mentioned formula it is easy to calculate the pressuredrop. If required we will give additional detailed information.

**Attenuation:** (measured on a 6" system)



**Pressureloss calculation:**

$$P = 2,7 \times \left( \frac{1,27 \times Q_v}{d^2} \right)^2 \times \left( \frac{293}{t+273} \right)$$

- $Q_v$  = exhaustgasflow in m<sup>3</sup>/s
- $d$  = boresize in m
- $t$  = temperature in °C
- $P$  = pressureloss in Pa

**Dimensions:**

| Boresize                  | 100   | 125   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>A (mm)</b>             | 114,3 | 139,7 | 168,3 | 219,1 | 273,0 | 323,9 | 354,0 | 406,4 | 457,2 | 508,0 |
| <b>B (mm)</b>             | 400   | 480   | 600   | 700   | 800   | 900   | 950   | 1050  | 1200  | 1300  |
| <b>C (mm)</b>             | 1500  | 1500  | 1750  | 2250  | 2500  | 3000  | 3500  | 4000  | 4500  | 5000  |
| <b>D (mm)</b>             | 1750  | 1750  | 2000  | 2500  | 2750  | 3250  | 3750  | 4250  | 4750  | 5250  |
| <b>Weight (+/- in kg)</b> | 90    | 130   | 200   | 300   | 400   | 625   | 800   | 1100  | 1500  | 1800  |

Side inlet optional, flanges <ND400 according DIN2576 PN10, larger flanges according DIN86044 – other flanges on request.

