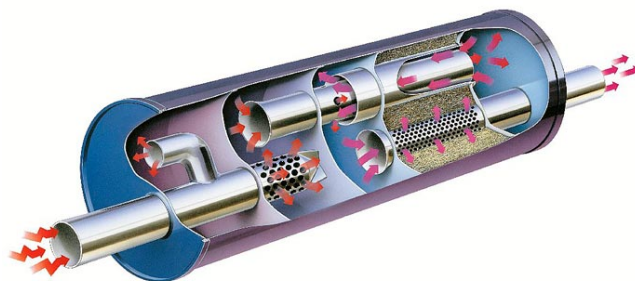


Silencers

The outflow of combustion gases creates noise. The purpose of the silencers in an exhaust system is to reduce or dampen this noise.

Function

A distinction is made between the following silencers depending on their position in the exhaust system:



- Front silencer
- Centre silencer
- End silencer
- Rear silencer

As catalytic converters and particulate filters already dampen a good deal of the noise, the use of front silencers is becoming less and less common with diesel engines.

The design of the silencers is influenced by the following factors:

- Engine type and design
- Engine capacity
- Number of cylinders and engine speed range
- Space available

Absorption and reflection of sound

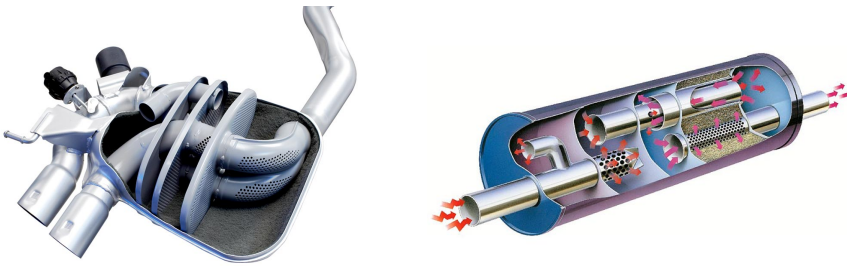
There are two ways of reducing or preventing the propagation of sound:

Sound insulation or absorption

With absorption, sound waves are converted into heat by friction in a sound absorption material. These are usually porous materials in the form of fibreglass, which does not represent a health hazard.



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Quelle: <http://www.my-cardictionary.com/exhaust-system/silencers.html>