NEWTECH INSULATION

Silencers



Silencers

The end of the ventilation stack is a common cause of noise problems and business establishments can receive numerous complaints about wind or gaseous noise coming from the ventilation stack (aerodynamic sources/ gaseous fluids). There several solutions to this problem and one of the most effective is to use a silencer or muffler to dampen the noise. NTi designs, manufactures, and installs silencers specific to the problem at hand by using fundamental calculations from noise sources, rpm, process pressures, noise level, and frequencies.



Basic Types of Silencers

- Reactive Silencers (without insulation inside)
- Absorptive Silencers (with insulation inside)
- Active Silencers (using electrical signal)

Applications

- Gas/ diesel engines
- Gas/ steam turbines
- Fans/ blowers
- Air compressors
- Vacuum pumps
- Blowdowns
- Vents

Features

- Ability to reduce noise by 10-15 dBA (depending on model and size)
- Specific models designed for each particular noise problem that occurs
- Low-pressure drop
- Low Self Noise
- Wide range of materials available to suit any budget
- Provide design, installation, and noise level measurement services



Quick Guides

- Choose the material suitable for the working environment
- Choose the installation location as close to the noise source as possible
- In case there is another noise source, that noise must be reduced as well
- Design the TL value of silencers to be 6-10 dB higher than required
- Flow speed inside silencers should not exceed 38 m/s

Available Materials

- Spray-painted colored steel
- Automotive-grade colored steel
- Stainless steel



Design Parameters

- Types of air or gas inside
- Supported air volume (CFM)
- Requirements of acceptable pressure drop
- Loudness/ noise frequencies
- Silencer size and installation location