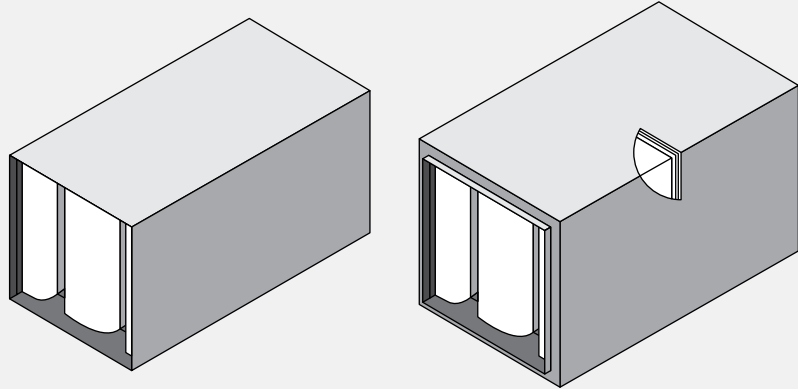


HTL

High Transmission
Loss Silencers



Description

VIBRO-ACOUSTICS' HTL silencers incorporate mass and/or stiffness added to the silencer casing to reduce break-out or break-in noise. The materials are externally applied and completely sealed to the silencer casing in the factory. This ensures quality controlled transmission loss.

HTL construction can be applied to ANY Vibro-Acoustics silencer type including Dissipative, Film Lined, No-Media, Elbow and Transitional Silencers. HTL construction can also be applied to normal ductwork.

Applications

- > Wherever break-out or break-in noise is of concern
- > When silencers are located in the occupied space
- > Under Roof Top Units (both supply and return)
- > For silencers and ductwork located in noisy equipment rooms to minimize break-in noise
- > When silencers are directly connected to fans or air handling units
- > In ductwork passing through sound barriers between noisy and quiet spaces

Features and Benefits

- > Externally applied materials to ensure optimal seal and quality controlled transmission loss
- > Duct wall construction consists of media, air space, mass and outer protective metal skin, as required, to obtain the specified noise criteria
- > Available in any cross-sectional dimensions to “fit-the-duct” one-piece or sectional supply for ease of installation
- > Can be selected to suit the acoustic or space requirements
- > Can be applied to **any** Vibro-Acoustics’ silencer model
- > HTL applied in factory vs. application in field ensures the following benefits
 - > Better seal to silencer or ductwork
 - > Eliminates the need for multiple installation trades
 - > For field application
 - > Lower overall cost
 - > Single source responsibility for noise control product

Cautions/When Not to Use HTL Silencers

- > When break-out or break-in noise is not of concern (fan/duct system analysis required) Refer to [Silencer Selection Instructions](#) for proper silencer location.

Performance Data/Testing

See [Performance Data](#) section.

Vibro-Acoustics’ 5th generation aero-acoustic laboratory was the first laboratory to be NVLAP accredited (Lab Code 100424-0) for the ASTM E-477 silencer test code. NVLAP is administered by the U.S. Dept. of Commerce.

Silencer Selection and location

Vibro-Acoustics’ HTL Silencers and Ductwork need to be carefully selected to optimize performance. Contact your Vibro-Acoustics’ representative or call **1-800-565-8401** for custom selections by our application engineers.

Standard Construction Features

HTL walls are custom designed to meet the system noise criteria requirements. Consult the Standard Construction Features of the Silencer Type to which the HTL walls are to be applied.

Special Construction Options

- > Continuously welded casings
- > Special materials (e.g. stainless steel, aluminum)
- > Flanges
- > Access doors
- > Built in transitions
- > Removable splitters
- > Flow measuring stations
- > For details of above and more special options see [Special Construction Options](#).