

ACOUSTIC ENCLOSURES AND PLENUMS

Commercial Products

Product Description

VAW Systems' acoustic enclosures and plenums are engineered for optimum attenuation and noise reduction. Acoustic enclosures are custom designed to provide practical, space savings noise control solutions. The acoustic enclosure may house noisy equipment (fan casings, gensets, pumps, etc.). The acoustic plenum may be connected to a fan discharge or return opening to aid in the distribution of ventilation or conditioned air. In addition to being an effective way to group ducts together, an acoustic plenum is often used to efficiently attenuate low frequency sound. Enclosures and plenums include sound absorptive walls, typically perforated metal liner backed by fiberglass media to deliver broadband sound attenuation.

Applications

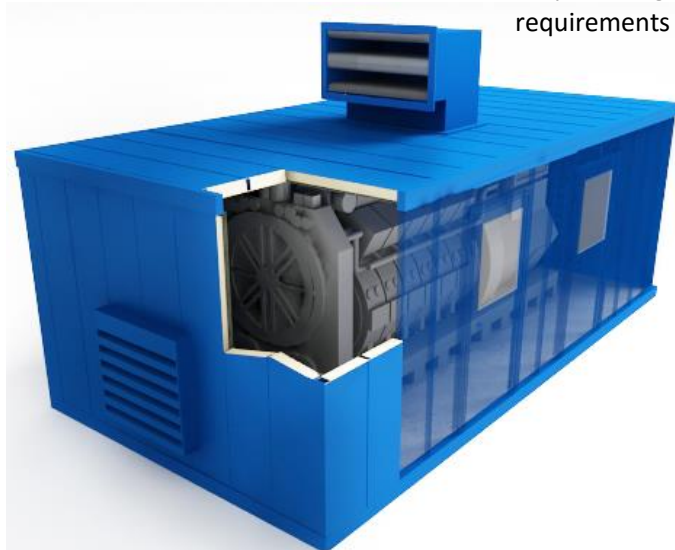
- Equipment noise controls (plant or outdoor)
 - Fans, pumps, motors, compressors, and generators
- Integrated into fan systems or air handling units
- Low frequency attenuation, close to the source
- Control room, occupational noise controls

Enclosure Accessories

- Ladder and staircase systems
- Lighting

Standard Features

- Engineered for virtually any installation
- Full-factory assembly or in-field module construction, with or without support base
- Acoustic Panels: Tongue-and-groove or internal flange (removable)
- Acoustic Panel thickness: 2 to 8 in.
- Acoustic performance: wall TL based on ASTM® methods; and, plenum attenuation based on the latest ASHRAE® algorithms
- May be designed for site-specific seismic requirements and wind loading



Certified Performance Data

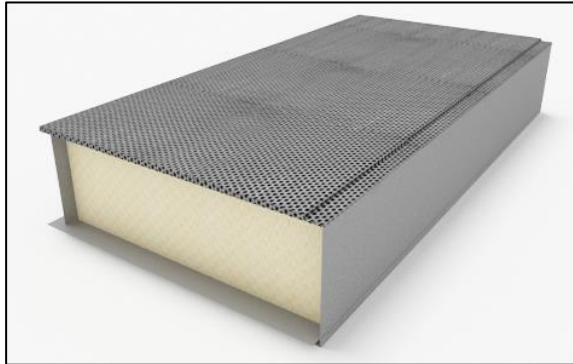
For over 40 years, VAW has been testing, designing, and fabricating noise control products for the HVAC and fan industry in North America with a unique program driven by our experienced acoustic engineers. Our performance data are based on extensive testing:

- Field verification tests
- Third party testing at NVLAP® accredited facilities
- Product validation and applied research within our Noise Control Applications Laboratory

Refer to our Certified Performance Data Sheets and our Selection Software for a complete set of product ratings.



VAW Systems Noise Control Applications Laboratory



Standard 4 in. Tongue-and-Groove Acoustic Panel

Acoustic Panels

A range of acoustic panels are used to form VAW acoustic enclosures and plenums. Panel thickness and materials of construction are selected for any noise source type. High Transmission Loss (HTL) panels are available. Panel features include:

- Solid or perforated interior liner
- Acoustic media fills
- Internal stiffeners

Construction Options

- High transmission loss walls and doors
- Materials: galvanized, stainless steel, satin coat
- Ventilation silencers and acoustic louvers
- Removable panels
- Floor grating
- Paint finish systems
- Integrated filter sections
- Structural support systems

Selection Software and Services

Contact VAW for application engineering and product selection services, or use COMSIL® acoustic analysis and selection software:

- Most advanced HVAC acoustic algorithms in the noise control market
- Modern, user friendly interface
- Drag'n'Drop icon based analysis grid
- Wide variety of noise control product

