



SILENCER APPLICATION & SELECTION SERVICES

Issue 10, December 2008

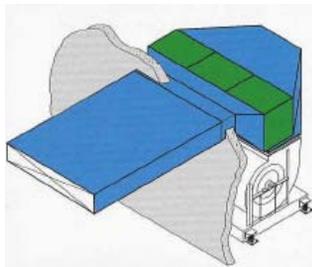
About V-A Selection Services

Time. It's become increasingly critical. That's why Vibro Acoustics has established some comprehensive online services. It's V-A's way of helping you get in touch with an entire department of Application Engineers quickly and easily. You'll find their in-depth knowledge and experience on projects of all sizes can save you space, energy and, of course, cost.



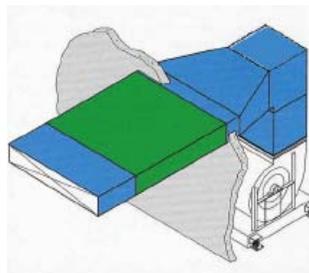
V-A Helps HVAC Designer Avoid System Effect Disaster

Vibro-Acoustics was asked by a mechanical consultant to review a silencer selection that was made by the traditional "catalog" approach (shown left). The silencer's catalogued pressure drop was 0.21" w.g. at 610 fpm. However, the actual pressure drop of the silencer, after considering system effects due to severe transitions on the inlet and discharge, was over 2.0"!



"Catalog Approach" Disaster

Vibro-Acoustics was able to help the engineer avoid this potentially dangerous situation by selecting a long silencer (shown right) with a more gap instead of a short silencer with tight gaps. The silencer's cross-section dimensions fit the main system duct with no need for special transitions. The pressure drop was kept below 0.35", including system effects, and still achieved the desired sound criteria.



"Systems Approach" Solution

V-A Silencer Application and Selection Services: Helping HVAC Designers Save Time and Money

Vibro-Acoustics provides HVAC designers free services at the project's 70-80% design stage. Vibro-Acoustics will:

- **Perform acoustical system analyses** to calculate attenuation required to meet specified in-room sound criteria.
- **Select Silencers** to meet specified sound criteria with minimal system pressure loss at lowest total cost.
- **Recommended silencer locations** in system to minimize aerodynamic system effects and eliminate break-out noise paths.
- **Provide a detailed silencer schedule and specification** tailored to the projects requirements.

[CLICK HERE TO ACCESS THESE FREE ONLINE SERVICES](#)

Free Online Services Include:

- Product Application Information
- Product Selections
- Lay-Ins
- Schedules
- Guideline Specifications
- Budget Pricing
- Submittal Drawings
- Testing Information
- Directory Acoustical Consultants