



System: CATM

Kinetics Noise Control Solutions

Outdoor Air-Cooled Chiller Acoustical Barrier Wall System



Model STL-4 Panel



Model VAL & VAR Louvers



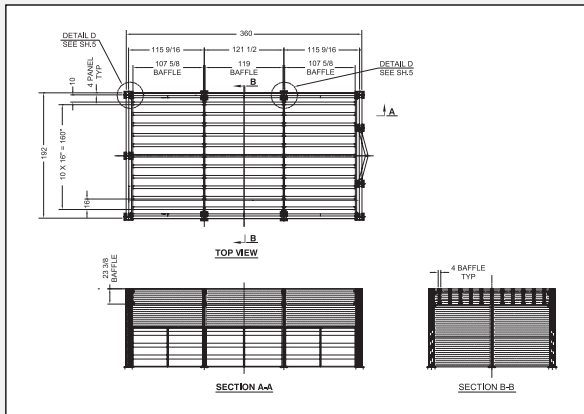
NOISEBLOCK™ Doors

The Situation:

The noise source is an outdoor Air-Cooled Chiller. Noise is propagating into critical areas: screw compressors (on the bottom of the unit) generate mid/hi frequency noise; Up-blast fans (on the top) generate low frequency noise.

Issue:

A common but inadequate attempt to control the noise is to wrap the compressors with mass-loaded vinyl jackets. This rarely solves the system noise problem.



Considerations:

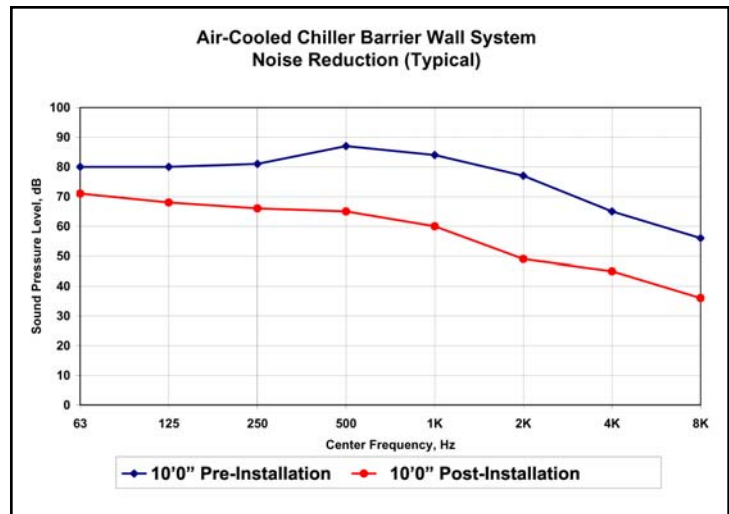
- Equipment warranty
- Electrical/Building codes
- Equipment ventilation
- Noise ordinance
- Location of equipment relative to critical areas
- Maintenance access
- Structural issues - seismic, drainage, wind loading, footings, tie-ins, etc.

KINETICS OFFERS: Proper Acoustical Design

Three and four-sided Model STL, acoustical barrier wall systems, allowing sufficient space between barrier/chiller as well as equipment and access doors as required. Add on VAL acoustical louvered skirt for ventilation. Add on VAR acoustical louvered roof system to redirect noise from critical areas, achieving maximum noise reduction at a very low pressure drop. Systems can be located on grade or rooftop.

Standard Products; Custom Engineered

Our knowledge and experience save you time and money. Modular units ship knocked-down for easy transport and quick field assembly. Product manufactured from galvanized steel or aluminum and can be factory powder-coated or field painted.



Walls (Reduction): 18-23 dBA

Baffled Top (Reduction): 8-10 dBA

$\Delta P(\text{Sys.}) = 0.10'' \text{ Wg}$

NOISEBLOCK™ STL AND HTL Panel Performance, Various Skin Types Sound Transmission Loss per ASTM E90

| Octave Band Number | 2 | 3 | 4 | 5 | 6 | 7 | STC |
|-------------------------------|-----|-----|-----|------|------|------|-----|
| Center Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | --- |
| Transmission Loss | | | | | | | |
| NOISEBLOCK (STL)-2" (18s/22p) | 17 | 23 | 34 | 47 | 55 | 57 | 37 |
| NOISEBLOCK (STL)-2" (18s/22s) | 17 | 29 | 45 | 55 | 58 | 58 | 41 |
| NOISEBLOCK (STL)-4" (18s/22p) | 21 | 28 | 39 | 48 | 56 | 58 | 40 |
| NOISEBLOCK (STL)-4" (18s/22s) | 21 | 34 | 52 | 58 | 60 | 60 | 44 |
| NOISEBLOCK (HTL)-4" (16s/22p) | 27 | 34 | 48 | 61 | 66 | 70 | 48 |
| NOISEBLOCK (HTL)-4" (16s/22s) | 27 | 39 | 59 | 68 | 67 | 72 | 52 |

Notes:

18s/22p: 18 gage solid outer skin and 22 gage perforated inner skin

18s/22s: 18 gage solid outer skin and 22 gage solid inner skin

16s/22p: 16 gage solid outer skin and 22 gage perforated inner skin

16s/22s: 16 gage solid outer skin and 22 gage solid inner skin

STL: Standard Transmission Loss

HTL: High Transmission Loss

For pricing or more information, please contact your nearest Kinetics Noise Control representative.



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Kinetics Noise Control, Inc. is continually upgrading the quality of our products. We reserve the right to make changes to this and all products without notice.