

Acoustic Shields & Blanket Insulation for Sound Attenuation

Pre-engineered thermal acoustical insulation system designed to reduce harmful noise levels and improve the surrounding work environment.

Custom-fit, through CAD technology allowing versatility in equipment coverage. Virtually any irregular surface can be insulated and multipiece designs are typical for most equipment applications.

Top quality design construction. The recommended design LT450A-TT features an inner and outer chemical resistant Teflon® fiberglass cloth, with high density fiberglass mat and barium sulfate loaded vinyl.

Removable and reusable. Blanket pieces can be installed with minimal effort and fastened with a stainless steel wiretwist, metal spring tensioner, or metal D-ring strap with Velcro® tab. Installation requires no tools or materials.

Reduce Harmful Noise At The Source!



16"x18" CENTRIFUGAL PUMP
Design: LT450A-TT – 1.5" thick
6.0 dBA Reduction

Advantages:

- Installed with plant personnel
- Remove and reuse numerous times
- A closed insulation system
- Custom-fit to existing conditions
- An ideal replacement for Asbestos
- Vibration resistant

Applications

- Ejectors
- Gear Box Casings
- Steam and Gas Turbine Casings
- Compressor Housings
- Exhaust Ducting
- Pressure Reducing Valves
- Custom Sound Curtains
- Liquid Chillers



**ACOUSTIC SHIELD
SCROLL COMPRESSOR**
Design: LT250AS
6.0 dBA Reduction

DESIGN FEATURES



THERMAL



ACOUSTIC



SAFETY

- 1 Double Sewn and Binded Seams
- 2 Durable PTFE Teflon® Impregnated Fiberglass Cloth
- 3 Aluminum Nameplate Embossed Lettering With Tag Description
- 4 Stainless Steel Lacing Hardware With Featured Wiretwist Fastener
- 5 Extended Velcro® Flap on Closing Seams
- 6 High Density Mass Loaded Vinyl (Reflection)
- 7 High Density Needled Fiberglass Mat Filler (Absorption)

Engineering Reusable Solutions for a Sustainable Planet



**HVAC LIQUID CHILLER
COMPRESSOR, COMPRESSOR INLET, MOTOR HOUSING**

Design: LT250A-VP

Performance: 4.0-5.0 dBA Reduction



24" PROCESS PIPING

Design: LT450A-TT

Performance: 10-12 dBA Reduction



CENTRIFUGAL LIQUID CHILLER

Design: LT250A-VP 1.5" thick
Wiretwest / Velcro® Flap Fasteners
Performance: 7 dBA Reduction



WATER COOLED SCREW LIQUID CHILLER

Design: LT250A-VP-1 1/2" Thickness
Performance: 6.0 dBA Reduction



MULTISTAGE COMPRESSOR & MOTOR HOUSING

Design: LT450A-TT - 1.5" thick
Performance: 8.8 dBA Reduction



AXIAL FAN HOUSING

Design: LT450A-TT - 1.5" thick
Wiretwest / Velcro® Flap Fasteners
Performance: 6 dBA Reduction



GAS TURBINE INLET DUCTING

Design: LT450A-TT - 2" Thickness
Performance: 8 - 10 dBA Reduction



AIR COOLED SCREW LIQUID CHILLER

Design: LT450A-TT-1 1/2" Thickness
Stainless Steel Wiretwest / Velcro® Flap Fasteners
Performance: 4-7 dBA Reduction

Test Results

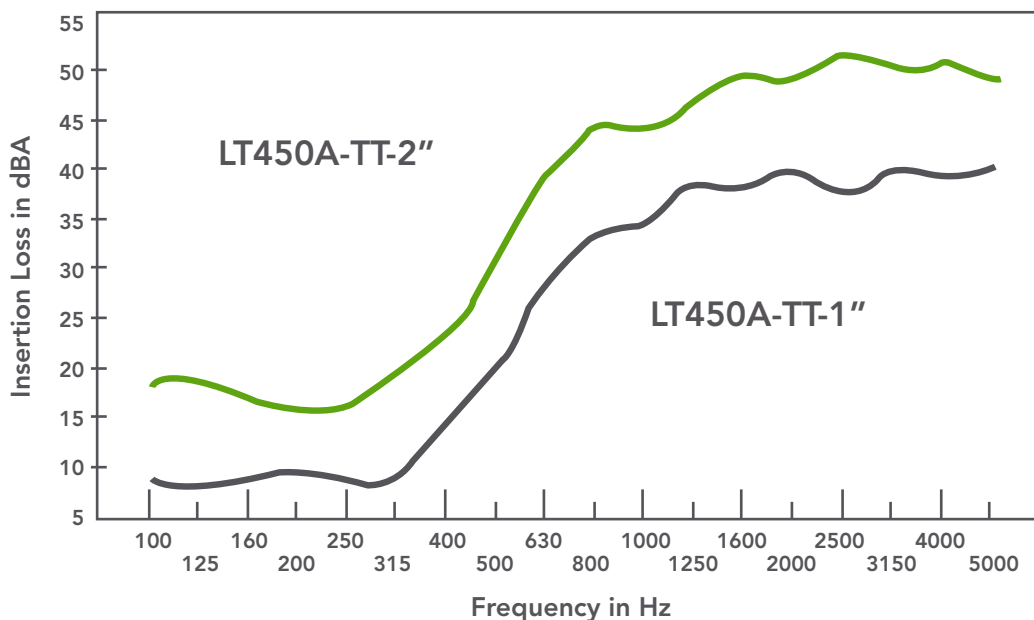
With the following measured in the A-Weighting, the total noise reduction from the 107 dBA loudspeaker level over a 100-5000 Hz frequency band would be: 20.8 dBA for design LT450A-TT-1" Thickness and 29.5 dBA for design LT450ATT- 2" Thickness.

This data represent (ASTM) Test Procedure E-1222-87 for the laboratory measurement of the insertion loss of pipe lagging systems. Shannon will not be warranted for performance results of Blanket Insulation expressed or implied.

107dBA SOURCE	A-WEIGHTED MEASUREMENTS		LINEAR WEIGHTED MEASUREMENTS	
Test Frequency (in Hz)	LT 450A-TT-1" Noise Reduction (in dBA)	LT 450A-TT-2" Noise Reduction (in dBA)	LT 450A-TT-2" Insertion Loss (in dBA)	LT 450A-TT-2" Insertion Loss (in dBA)
100	8	19	8	18
125	8	20	7	19
160	9	17	9	17
200	9	16	9	16
250	8	17	8	16
315	10	20	9	20
400	14	24	14	23
500	21	30	20	30
630	28	39	27	39
800	34	44	33	44
1000	35	44	34	43
1250	38	46	37	46
1600	37	49	36	49
2000	38	48	38	48
2500	37	51	36	51
3100	40	50	39	50
4000	39	49	38	50
5000	41	49	40	49

PS-ES-919

INSERTION LOSS PERFORMANCE COMPARISONS



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