

AEROACOUSTIC

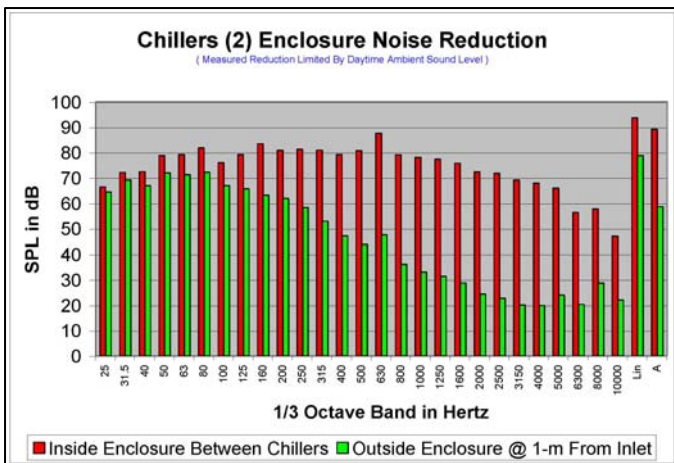
NOISE CONTROL FOR CHILLERS AND COOLING TOWERS



Dual Chillers Before Aeroacoustic Remediation, Complete With Recirculation Problems.



Dual Chillers After Installation Of Aeroacoustic Enclosure Flowing Approximately 300,000-SCFM



Measured Noise Reduction Of Over 31-dBA @ 1-Meter Distance And No Air Recirculation.

Aeroacoustic Engineering Consultants (AEC) Has Been Providing Acoustic And Aerodynamic (Aeroacoustic) Products, Systems And Services Since 1972. The AEC Chiller/Cooling-Tower **NOISE** Abatement Systems Require No Supplemental Air Movers, They Are 100% Passive! In Most Installations Chiller/Cooling-Tower Performance Is Enhanced Due To Improved Air Flow Quality And Reduced Solar Heat Gain. Chillers/Cooling-Towers May Now Be Located Where Desired And Not Relegated To Remote Locations To Minimize **NOISE**! Sound Attenuation May Be Tailored To Individual Site Requirements – No Wasted **Money**!

Sound Attenuation Systems For Chillers & Cooling Towers With A Demonstrated Noise Reduction Of Over 60 – dBA

*** Patents Pending ***

Typical Aeroacoustic Treatment For Cooling Towers

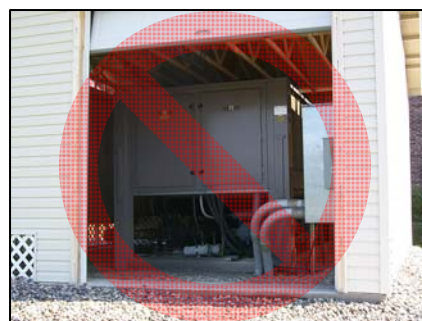
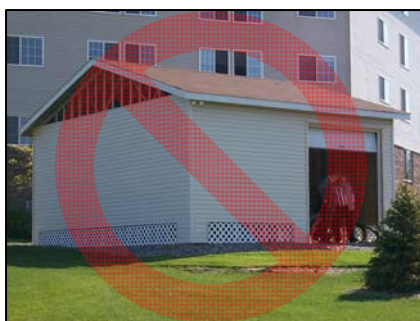
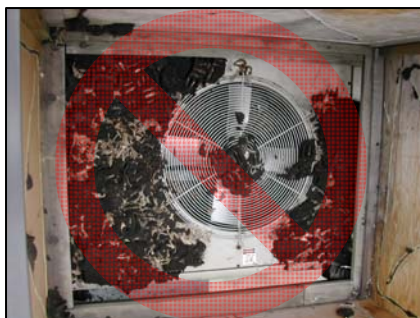
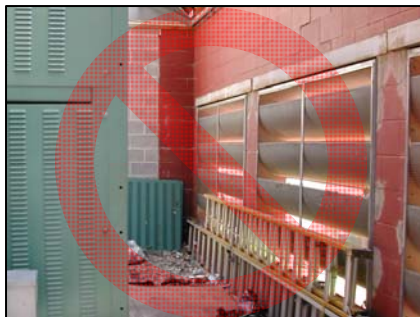
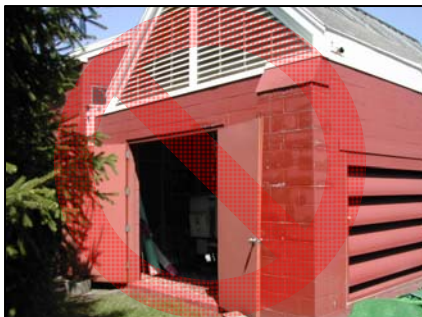


Figure 1 – Cooling Tower Before. (Haze Near Inlet Indicates Recirculation)



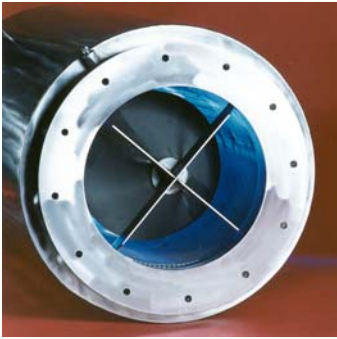
Figure 2 – Cooling Tower After.

Tired of “Band Aid” Fixes to Chiller And/Or Cooling Tower Equipment That Creates High Maintenance, Air Recirculation, Higher Ambient Temperatures, Increased Power Consumption, Reduced Cooling Efficiency, Frequent Repairs and Yields Questionable Sound Attenuation?



Let AEC Provide A Tight-Fitting Aeroacoustic System (Patents Pending) That Is GUARANTEED Aerodynamically & Acoustically Correct For Your Site-Specific Installation And Say Good-Bye To All The Old “Band-Aid” Problems!

ASEPTIC ACOUSTICS



TYPICAL PRODUCTS

Sanitary Shielding
Conveyor Covers
Enclosures
Reactive Silencers
Sanitary Walls & Ceilings
Thermal Panels
Containment Systems
CIP Systems
Filter-Silencer Packages
Pressurized (+/-) Enclosures
Portable Enclosures
Washable Silencers
Low Profile Silencers
H.P. Steam Silencers
Vibration Isolation

TYPICAL APPLICATIONS

FDA*USDA*NSF
Food*Dairy*Beverage
Aerospace*Medical
Clean Rooms
Pharmaceuticals
Biogenetics
Fume and Particulate Containment
Burst Protection ● Puffers
Packaging & Bottling Lines
Size Reduction Mills
Process Air ● Cleanbenches
Classifiers: Pneumatic & Mechanical
Blower ● Fans
Filing/Capping/Labeling
Semiconductor (VLSI & ULSI)
Pumps ● Sterilizers
Retorts ● Chillers
Compressors ● Screens & Sieves
● Granulators
Presses ● Vacuum Systems
Filter Housings
HVAC ● Valves ● Dryers
Ultrasonic Welders ● Waterjet Cutters

SILENCERS



TYPICAL PRODUCTS

Duct & Transition Silencers
Cross Talk Silencers
Acoustic Louvers
Reactive Silencers
Elbow Silencers
Connectors & Expansion Joints
Filter-Silencers
Dissipative Mufflers
Low Profile Silencers
Turning Vanes
High Pressure Vent Silencers
Electric Motor Silencers
Vortex Silencers
Cone Silencers
Acoustic Diffusers
Isolators & Hangers

TYPICAL APPLICATIONS

Cooling Towers ● Catalytic Converters
Wall Openings ● Heat Exchangers
Gas Turbines ● Fluidized Beds
EnGen Sets ● Compressors
Exhaust Stacks ● Forced Draft Fans
Scrubbers ● Eductors
Fume Extractors ● Valves
Process Air ● Wind Tunnels
HVAC: Supply & Returns
Clean Rooms ● Dust Collectors
Precipitators ● Refiners
Burners ● Cyclones
Air Curtains
Pneumatic Conveyors
Turbo Chargers
Pumping Stations ● Air Wipers/Knives
Blower ● Fans
Evaporative Coolers
Vacuum Lines
Roof Exhausts

ENCLOSURES



TYPICAL PRODUCTS

Acoustic Panels
Thermal Panels
Thermal/Acoustic Panels
Isolation Ceilings
Acoustic Doors & Windows
Absorption Panels
Functional Absorbers
Composite Barrier & Curtain
Systems
Septum Panels
Ventilation Systems
Acoustic Floors
Fan & Blower Plenums
Reverberant Panels
Acoustic Machine Guards
Floating Floors
Vibration Isolation

TYPICAL APPLICATIONS

Plasma & Waterjet Cutters
Pumps ● Marine Equipment
Motor Generator Sets
Printing Presses ● Atomizers
Soundproof Partitions
Machine Enclosures
Acoustic Tunnels ● Theaters
Factory Office ● Sound Studios
Sound/Barriers ● Equipment Pent Houses
Conference Rooms
Compressors ● Filter Houses
Acoustics Test Environments
Sports Arenas
Acoustic/Thermal Plenums
Transformer Enclosures
A/V Communication Centers
Emergency Power Units
Control Rooms ● Grinders
Vibration/R.F. Test Rooms
Audiometric Test booths
Fan/Blower Inlet Boxes
Cooling Tower Enclosures
Hammer & Ball Mills
Dust & Fume Control

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ENGINEERED SYSTEMS



AERODYNAMIC / THERMODYNAMIC INTEGRATED SYSTEMS

Fans & Blowers
Wind Tunnels
Filtration Systems
Heat Exchangers
Thermal Recovery
Heat Pumps
Acoustic/Thermal Enclosures
Seismic Compensators
Air Conveyors
Curb Isolators
Filter Silencers
Inertia Bases

INTERNAL COMBUSTION INTEGRATED SYSTEMS

Co-Generation Sets
Inlet Silencing
Turbine Peaking Stations
Filter-Silencers
Stand-by Power Units
Test Cells
Acoustic Splitters
Dynamometer Test Stands
Exhaust (High Temp) Silencing
Acoustic Enclosures
Secondary/Tertiary Silencers
Vibration Isolation

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