

PROJECT SOLUTIONS

Project: Guggenheim Museum Storage Building
Application: Cooling Towers / Outdoor Equipment

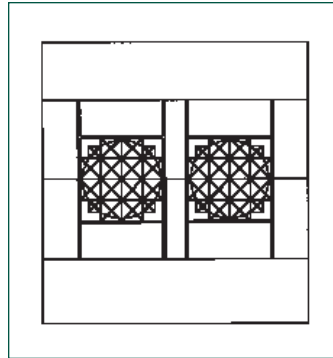
Noise from existing cooling towers on a Guggenheim Museum building is controlled by Vibro-Acoustics' silencing package.

PROBLEM: Environmental noise

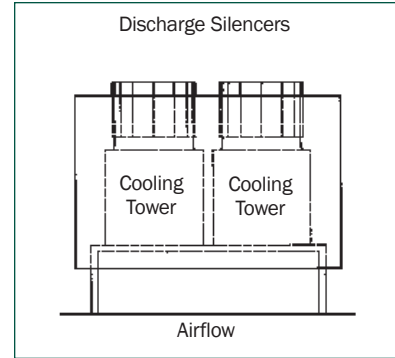
The noise control package had to control inlet and discharge fan noise and casing radiation. The design also had to prevent short-circuiting air flow and have a low pressure drop to minimize the reduction of the tower rated capacity.

SOLUTION: Silencers and enclosure package

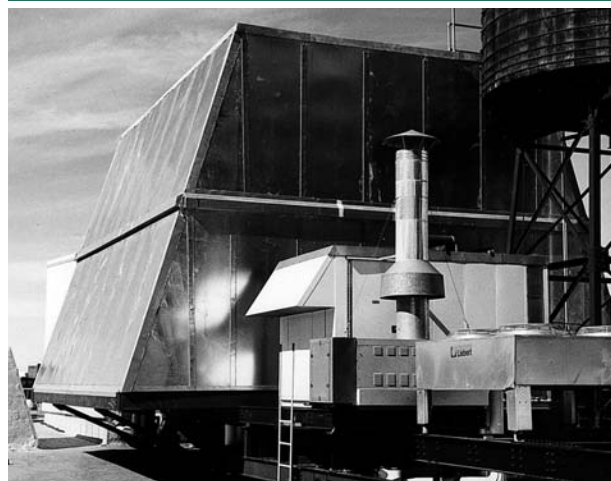
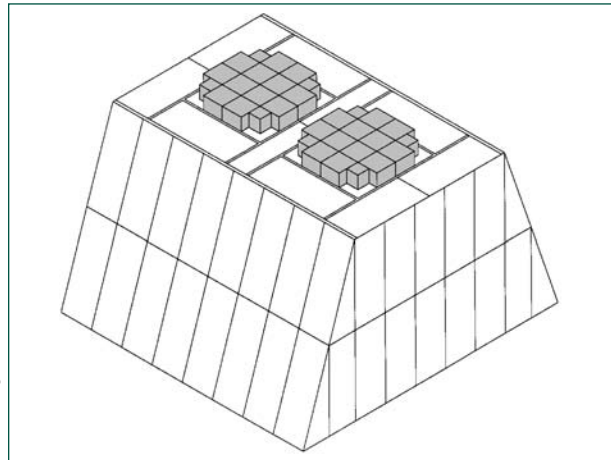
Modular rectangular silencers were combined with sheet metal safining at each fan's discharge to form a circular shaped silencer which matched the fan's shape. Both towers were enclosed with acoustic panels. This huge acoustic enclosure was designed to serve as acoustical inlet plenum silencing having very low pressure drop. It also reduces tower and silencer casing radiated noise.



Plan view of cooling tower silencing package.



Elevation



Retrofit package includes an acoustical enclosure around the cooling towers which also acts as acoustical plenum intake silencing.