

Niagara Falls Casino fast track project required special rooftop unit silencing.

**PROBLEMS: Rooftop unit noise
Environmental noise**

Outdoor noise could radiate from the rooftop units to hotels adjacent to the casino.

SOLUTION: Exhaust silencers

A silencer was installed on each of the unit exhaust air openings.

PROBLEM: Thermal control

Ducts on the roof were not externally insulated.

SOLUTION: Special silencer construction

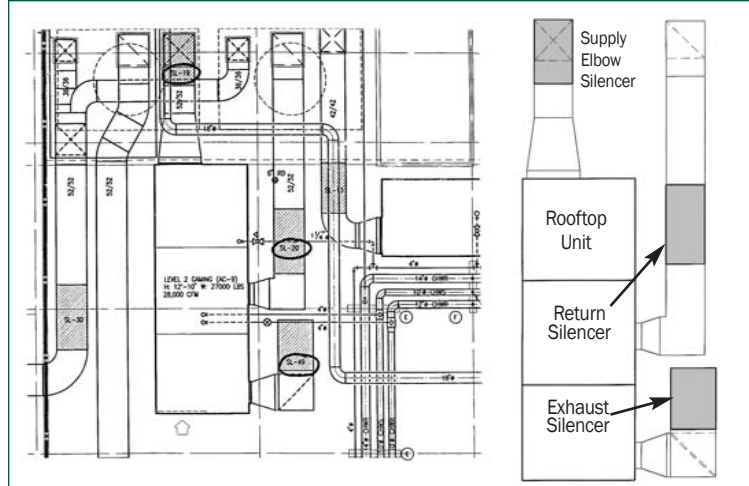
Silencers on the roof were designed to have internal acoustical/thermal insulation on all four walls, protected by a perforated metal covering. This applied to supply and return silencers.

PROBLEM: Reliable delivery

The project was extremely fast track.

SOLUTION: 2 week delivery

The contractor's project manager made unannounced surprise visits to Vibro-Acoustics and another silencer supplier's manufacturing plants to determine the reliability of each company to supply as needed. As a result, Vibro-Acoustics received the order and supplied drawings with our bid and delivered the products in 2 weeks!



Contract Drawing

Simplified Plan View



Side view of exhaust and return silencing. (Reference drawings above)



Hotels surround rooftop units.