

A mechanical contractor required a firm bid prior to the project design and final supply of silencers that met the specified noise criteria.

**PROBLEM: Unacceptable installed performance**

The specified criteria shown below had to be attained. However, the design was not complete and silencers could not be selected at the time of bid.

**SOLUTION: Vibro-Acoustics bid, supplied and met noise criteria**

Vibro-Acoustics worked with the successful design/build team to secure the contract and meet the noise criteria within budget.

Vibro-Acoustics supplied 95 straight rectangular and 9 elbow rectangular silencers for the 1,000,000 CFM air supply in the seating areas and for the 250,000 CFM supply and return air in the concourse. In addition, vibration isolation for 4 cooling towers, 4 chillers and 30 pumps was supplied. Vibro-Acoustics is proud to have helped make this sports facility ready for World Series Champions, the Toronto Blue Jays.



*To help make the Toronto Skydome as appealing to the ear as it was to the eye, Vibro-Acoustics shipped more than 15 truckloads of product and materials.*

**Sound Criteria Specification**

All mechanical equipment shall be selected and/or attenuated so that contributions of the mechanical equipment and systems to occupied spaces shall not exceed the following maximums:

Public/Private spectator areas and public/club concourse areas..... **NC-45**

Front offices, team facilities, stadium personnel, first aid, media lounge and all dining areas ..... **NC-40**

Club level/Press box areas..... **NC-35**

Sound system control room, scoreboard control room and all media areas ..... **NC-25**