

PROJECT SOLUTIONS

Project: Goderich Ventilation Shaft
Application: Fan Silencers (Axial)

Large axial ventilation fans posed a noise problem to the outdoor environment.

**PROBLEMS: Insufficient duct length
 Environmental noise**

Axial fan intake noise could radiate to the nearby recreational boating docks and adjacent office building. There was only sufficient silencing length at the fan intakes to control the low frequency noise.

SOLUTION: Acoustical louvers

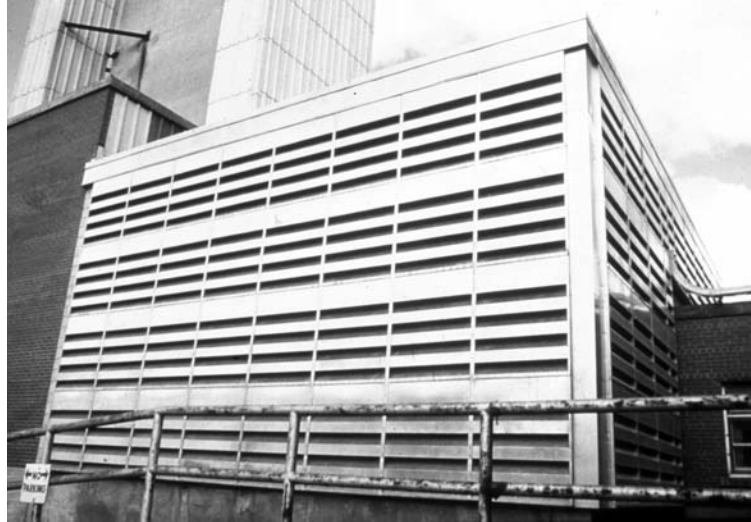
An acoustical louver intake house was supplied by Vibro-Acoustics to provide sufficient mid and high frequency attenuation when installed in series with the fan silencing.

PROBLEM: Environmental conditions

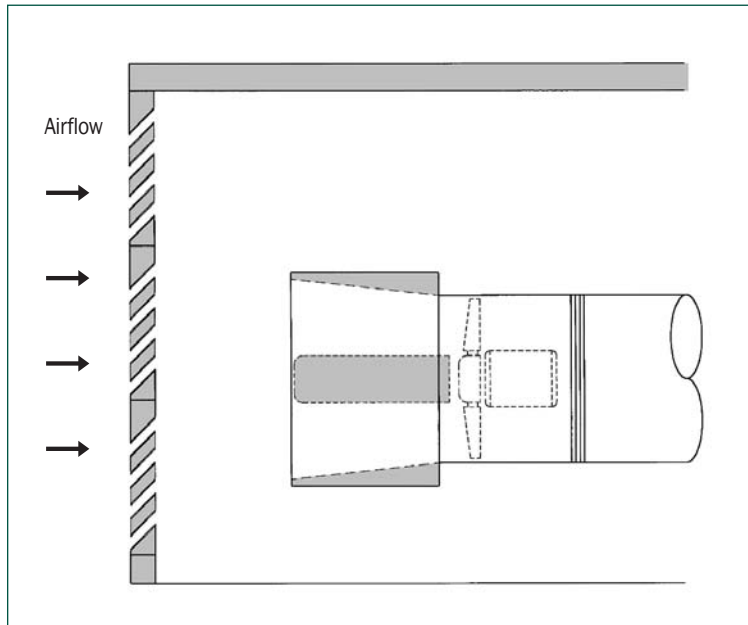
Aesthetics and corrosion resistance were major concerns.

SOLUTION:

A special corrosion-resistant aluminum alloy was used for the construction of the intake house including acoustical louvers.



Multi-sided acoustical louvers control noise from ventilation axial fans. The entire intake house was fabricated by Vibro-Acoustics using aluminum alloy.



Schematic elevation: Fan silencing system comprises acoustical louvers and fan inlet silencer installed in series.