

Product: Centrifugal Fan Silencers

Project: Cement Processing Plant

Application: High Temperature Blowers

PROJECT SOLUTIONS

Inlet box noise control was required for a Cement Processing Plant using a special low pressure drop design within a high temperature application.

PROBLEM:

85 dBA Inlet noise levels were required on fans with existing inlet boxes. Minimal added static pressure drop was required from the noise control package.

SOLUTION:

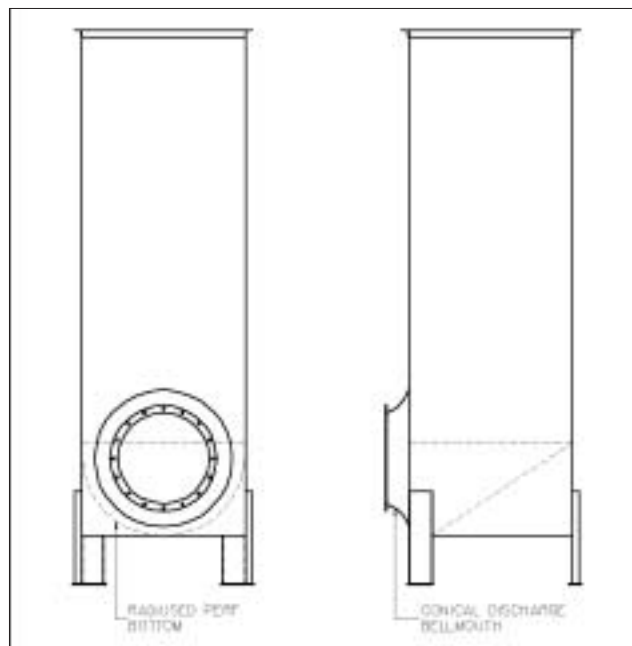
Vibro-Acoustics designed specially fitted Rectangular Dissipative Side Box (RD-SB) silencers with a bell-mouth fan connection and modified inlet plenum space. The reduced static pressure drop silencers achieved the critical noise criteria and eliminated the need for the existing space consuming inlet boxes.

PROBLEM:

Fan installations were in a constant high temperature environment.

SOLUTION:

Vibro-Acoustics special 3-Step paint system was selected for durable long term silencer operation under the constant elevated temperatures.



Vibro-Acoustics RD-SB silencer was fitted with a bell-mouth fan connection and modified inlet plenum space upstream, resulting in reduced system pressure drop while maintaining optimal attenuation.