Vibro-Acoustics®

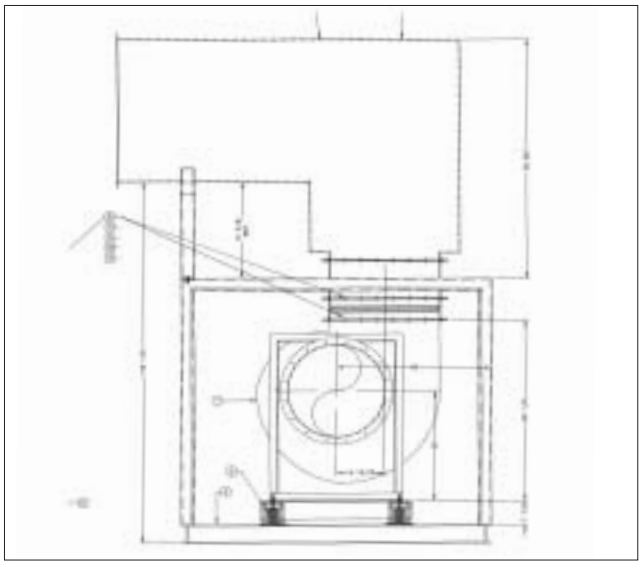
**Product:** Centrifugal Fan Silencers
**Project:** Materials Manufacturing Facility
**Application:** Rooftop Exhaust Systems

## PROJECT SOLUTIONS

### Vibro-Acoustics selected as the single source supplier to meet Rooftop Exhaust System criteria.

**PROBLEM:**
Customer required a single source supplier of their custom rooftop exhaust systems (four fans) to ensure the noise criteria of 55dBA at 3 feet from outlet was met.

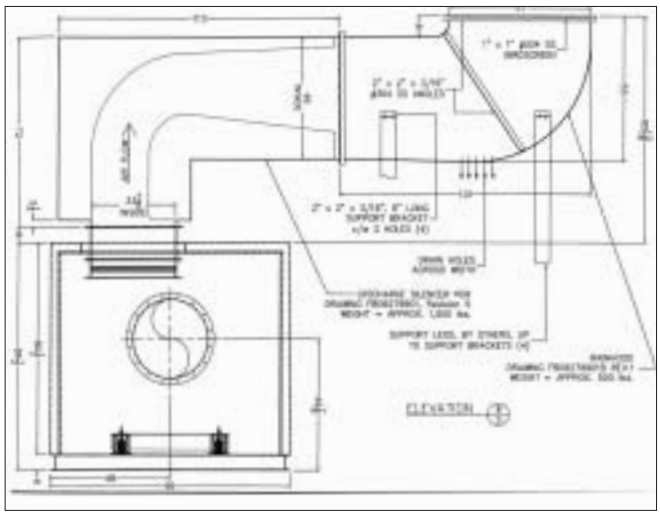
**SOLUTION:**
Vibro-Acoustics supplied the total rooftop exhaust system assembly complete with elbow discharge silencers with radius elbow fitting vertical redirection of airflow, structural base, isolation, and HTL flex connections. Additional support structure was included in the design to allow for future acoustic panels



Rooftop Exhaust System was required to meet 55 dba at 3 feet from the fan outlet.

**PROBLEM:**
Four rooftop exhaust systems located outside created a concern over corrosion and height restrictions created an engineering challenge.

**SOLUTION:**
The system was completely constructed of stainless steel. The Vibro-Acoustics elbow exhaust silencer with rainhood was designed to stay within allowable height, avoid generated noise problems, and achieve the specified noise criteria.



Height restrictions required special design considerations and extensive drain holes.



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