

Vibro-Acoustics designed and tested six 200 HP fan-silencer packages for NASA clean room.

PROBLEM: Insufficient duct length

There was limited length of duct to control noise from 153,000 CFM, 200 HP flow fans.

SOLUTION: Close-coupled rectangular silencers

10' x 10' rectangular silencers were close-coupled to the axial fans. Splitters were designed to be full height and rugged construction to distribute the airflow.

PROBLEM: Excessive energy consumption

Since the fans were to run continuously, minimum energy consumption was the objective.

SOLUTION: Optimizing design and testing

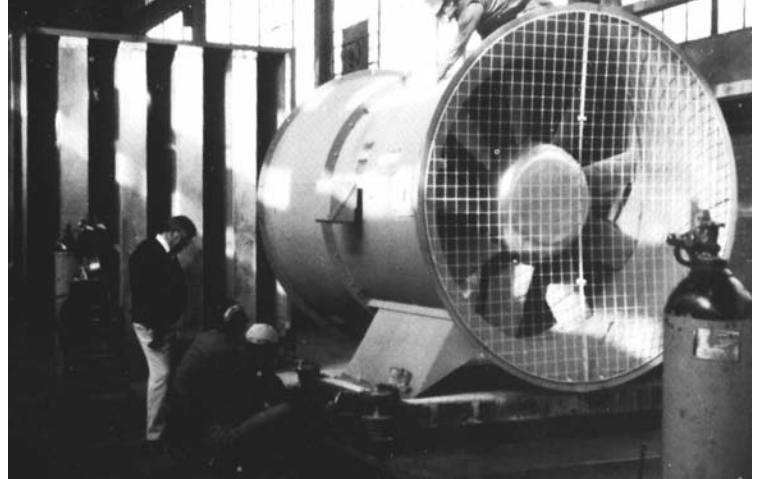
Full scale testing and optimization of all the designs were completed before shipment. Performance witness tests were also completed.

PROBLEM: Undivided responsibility

Undivided responsibility for the supply of fans, silencers, acoustic enclosures, structural steel, vibration bases and electrical work.

SOLUTION: Fan / silencer package supply

The six units were tested and supplied as packages, each 10' x 10' x 36' long.



Fan silencer and vibration isolation components.



Fan / silencer package and test duct work.