

## PROJECT SOLUTIONS

**Project:** Kellogg's Manufacturing, London  
**Application:** Duct Silencers (Centrifugal Fan Systems)

Development of special cleanable silencers for food processing ventilation saves valuable space.

**PROBLEMS: Environmental conditions**  
**Exposed glass fiber in the ductwork**  
**Insufficient duct length**

To combat food contamination and any infestation, the owner insisted upon a clean-in-place washdown and sterilization system right in the ducts and silencers.

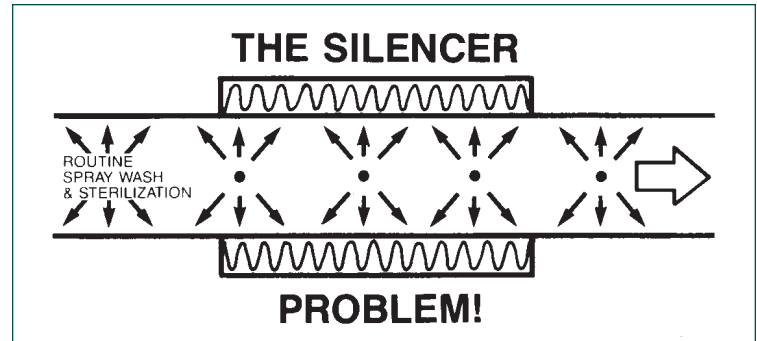
Exposed glass fiber could not be tolerated.

If the silencing could not be accomplished in the limited length available in the upper manufacturing space, the large circular silencers would have to be mounted on the roof. This would introduce new problems increasing the cost.

**SOLUTIONS: Special circular silencing**  
**Development testing**

The acoustical consultant proposed an innovative solution that required design and development testing. The traditional method of installing a protective film under the perforated metal would degrade the acoustic performance. Therefore, it was proposed to install the film over the perforated metal and raising it by using an innovative technique.

The customer was fully involved. The prototypes were developed and then tested, to resolve any problems, and the design information presented to the consultant. The specification and silencer schedule was written. Vibro-Acoustics' bid was successful, and the customer's requirements were satisfied.



*Innovative solution proposed by acoustical consultant for project.*



*The result - valuable manufacturing space saved.*