

## Dairy Grade Sonic Horn



- Quick Cleaning Design
- Features Discrete Frequency Power
- Meets 3A Sanitary Standards



Sonic horns are used throughout the dairy and pharmaceutical industry in spray drying and baghouse applications. They efficiently fluidize compacted solid particles so that they will flow freely.

When used for 15 seconds, every 2 to 10 minutes, the discrete frequency power generated by the horns reduce the accumulation of agglomerated particles. Sonic horns have been successfully used to reduce pressure drop across the baghouse, as well as alleviate filter bag to sidewall bridging. Horns installed in spray dryers can eliminate buildup and reduce undergrade product. Installing a sonic horn can result in a substantial savings and return the cost of its installation in just a few months.

### Quick Clean-up Design

Our Dairy Grade Sonic Horn is made of 304 stainless steel. All product contact surfaces have a #4 finish and all corners are rounded for sanitary services.

USDA standards require a complete clean up of all contact surfaces after each product run. The Midwesco Dairy Grade Sonic Horn has been designed specifically to address the clean up problems associated with a conventional sonic horn. With conventional designs the driver lid screws must be removed to clean the contact surfaces. Our Dairy Grade Sonic Horn is assembled with only six stainless steel wing bolts and can be disassembled quickly and easily. Once the driver lid is removed, the driver body, diaphragm and

horn body are easily accessible for cleaning. Reassembly is just as easy. (See the back of this sheet for detailed instructions.)

### Installation

The Midwesco Dairy Grade Sonic Horn is supplied with a standard mounting flange installed for vertical or horizontal mounting or it can be provided with custom mounting sleeves fabricated to your specifications. Air connections are quick connection, Tri-Clamp® with Gortex® PTFE seals.

Automatic timers, controls and air supply filters can be supplied upon request.

# Disassembly and Cleaning

## STEPS



1. Turn off air supply and disconnect air hoses.



2. Remove the stainless steel wingbolts.



3. Remove the driver lid and driver housing.



4. Clean the diaphragm and driver housing.



5. Clean the horn body and reassemble.

### SPECIFICATIONS

Material, Bell & Driver	304 Stainless Steel
Type of Finish	No. 4 - 150 Grit
Material, Diaphragm	High Strength Alloy
Overall Length	28"
Bell Mouth Diameter	10" Nominal
Sound Level Intensity	140db (@ one meter in free air)
Fundamental Frequency	230 Hz (1/3 octave band analysis)
Air Pressure Requirements	50 to 70 psig
Air Consumption	50 to 70 scfm
Air Supply Line Size	1/2"
Gasket Material	Gortex <sup>®</sup> PTFE
Weight	50 Lbs.

### OPERATION

Typical Dryer or Baghouse operates 15 sec. every 2 min. - 10 min.

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