AcoustiClean® Sonic Horns are designed to produce high-energy, low-frequency sound vibrations to disperse and prevent costly buildup of material in hoppers, bins, silos, boilers, ESPs, SCRs, fans and more. Sound waves are produced by applying compressed air to the sound generator, vibrating a high-strength titanium diaphragm. A typical pulse length is 10 seconds with each pulse using approximately 10 cfm of compressed air.

Model A600 is ideal for fluidizing material inside hoppers, bins and boilers where space limitations outside the vessel are a concern. The horn is designed for installation inside the vessel with only the sound generator located on the exterior wall. The effective cleaning distance is up to 15 feet in front of the horn and 6 feet in diameter.

**Specifications**

- **Frequency**: 250 Hz
- **Sound Pressure (Approximate range)**: 149 - 165 dB
- **Cleaning Distance**: 15 feet (4.57 m)
- **Cleaning Diameter**: 6 feet (1.83 m)
- **Weight**: 65 lb (29.48 kg)
- **Height (approx.)**: 22.25" (0.57 m)

**Air Requirements**

- **Air Pressure**: 70-90 psi (4.83 - 6.21 bar)
- **Air Volume**: 40-80 cfm

Specifications subject to change without notice.

Contact us for a detailed AcoustiClean® proposal, engineered specifically for your application.
Recommendations for successful AcoustiClean® sonic horn installation:

Vessel must be clean and free of deposits for facilitating optimal material flow.

The material must be relatively dry and powdery. Sonic horns are typically not effective if the moisture content is above 25%.

Compressed air pressure and volume must be maintained at 70-90 psi / 40-80 cfm to ensure horns are able to emit sound efficiently.

On boilers, the most effective installation will have the horn(s) blowing in the same direction as the pipes, where the acoustics can get between the pipes and the walls of the boiler. (For example, end-to-end.) Sounding the horn behind pipes on one side of the boiler toward pipes on the other side will generally not produce effective results.
Sonic Horn – Specify model number

Titanium Diaphragm
The only moving part in an AcoustiClean® sonic horn is the titanium diaphragm, which should be replaced annually.

Stainless Steel Flex Hose
Connects the solenoid valve and hard piping from your compressor.

Timers
Two options are available to control the interval and length of time the AcoustiClean® horn will sound.
  • Timer/sequence controller designed to control multiple sonic horns.
  • Timer plugs into the DIN contacts on the valve to control one horn.

Solenoid Valve
Controls the flow of air to the horn.

1" High-flow Particulate Filter
Enhances life of system components by removal of in-line contaminants.

1" high-flow Regulator
Necessary for regulating compressed air supply to within 70-90 psi for proper horn operation.

1" Locking Ball Valve
Ideal for isolating the horn when system maintenance is required.