

# EnviroCare

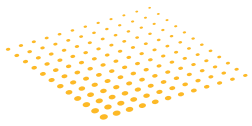


AH™ Series Engineered Systems

Acoustic Horn Applications

Dust Collector Cleaning





## **AH Series Acoustic Horns**

Looking for an efficient, precision-engineered acoustic horn system for dust removal that actually works, provides the best overall value, and the lowest total cost of ownership? Look no further than the AH Series.

EnviroCare's horns are engineered to provide the industry's best overall performance and longest diaphragm life of any horn on the market.

Our acoustic horn experience is second to none. In the early 80s, EnviroCare was responsible for rejuvenating the market for acoustic horns. We were the first to engineer the application of sound energy to enhance cleaning of reverse air fabric filters. Prior to the introduction of the AH series of acoustic horns, sound energy was randomly applied with mixed results.

We remain the leader in custom-engineered acoustic solutions. In addition to our AH-20 and AH-30 series horns, we have the capability to design and manufacture horns with various frequencies, sizes and shapes tailored to the specific application.

To date, our application list—the most extensive in the industry— includes reverse air fabric filters, electrostatic precipitators, conditioning towers, silos and bins, and spray dryers.

### ***How Our Acoustic Horns Work***

AH Series acoustic horns are engineered devices that produce high pressure sound



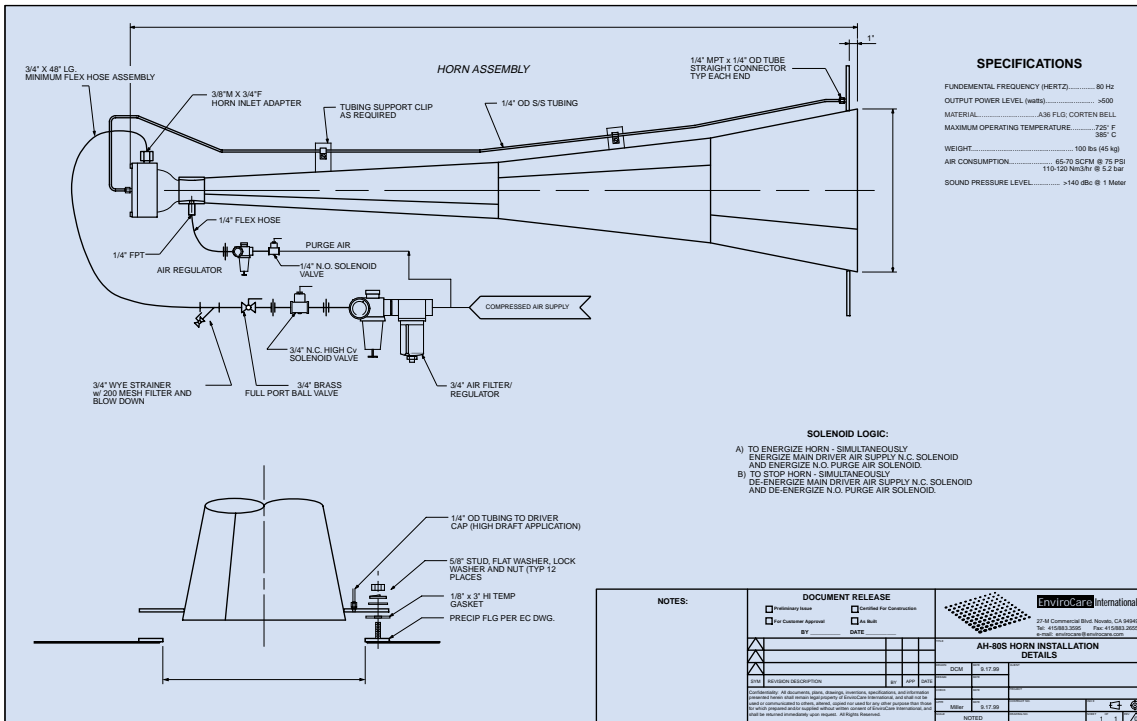
energy at low frequencies (@ 125 Hz). A corrosion resistant diaphragm cycles to create pressure pulses that pass into the unique horn bell that amplifies them. The design of the driver and horn bell determines the low frequency power level.

When applied as a cleaning device, the Series AH Acoustic Horns emit a sound pressure wave with sufficient energy to shear dust deposits from surrounding surfaces. The high intensity sound pressure waves penetrate the deposits of dust and the induced vibrations in the dust break it loose. This cleaning mechanism causes no structural damage to concrete, steel or refractory lined applications. Because the intensity required for cleaning changes from application to application, EnviroCare offers horns with a variety of different power ratings.



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## Control

In most applications, the horns need only to be operated for several seconds on an intermittent schedule. EnviroCare offers a complete line of control options ranging from manual ball valves to PLCs with full adjustability.

## AH Series Specifications

**Horn Type:** Straight or curved horn bell, mild or stainless steel construction.

**Diaphragm material:** Corrosion resistant stainless steel.

**Sound Pressure Rating:** 140-146 dBc @ 1 meter.

**Fundamental Frequency:** Primary frequency @ 125 Hz. Custom frequencies available.

**Air Consumption:** 65-70 SCFM @ 70 PSIG.

**Mounting Options:** Chain hung, flanged or custom engineered to fit application.

## Applications

**Baghouses/Fabric Filters**—Reverse air and Shaker cleaning assistance.

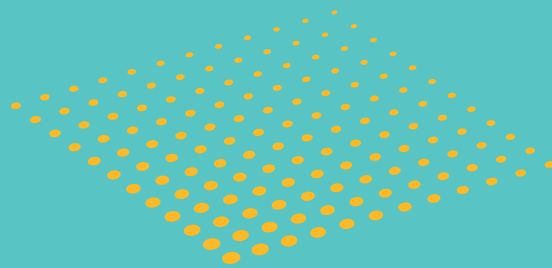
**Electrostatic Precipitators**—Clean plates, wires, inlet distribution devices and hoppers.

**Silos, Ducts, Conditioning Towers and Hoppers**—Remove material build up, fluidize dust and prevent bridging.

**Boilers and Heat Exchangers**—Supplement or replace soot blowers.

**Fan Wheels/Housings**—Keep fan wheels clean, preventing out of balance conditions.

Our horn applications are limited only by your imagination and the laws of physics.



To learn more about EnviroCare AH Series engineered systems, contact:

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