SONIC HORN · MODEL ACL 9475

Prevent costly particle buildup.

The ACT Group
Environmental Services Division

BULK MATERIAL HANDLING · SINCE 1991

SONIC MATERIAL ACTIVATION

Sound does the cleaning, so your crew does not have to.

ACT sonic horns produce high-energy, low-frequency sound vibrations that disperse and prevent costly material buildup in hoppers, bins, silos, boilers, ESPs, SCRs, fans and more. Compressed air drives a sound generator, vibrating a high-strength **titanium diaphragm** — the only moving part in the horn. A typical pulse runs 10 seconds and uses about 10 cfm of compressed air.

The **ACL 9475 is our largest sonic horn**: an effective cleaning distance of up to **60 feet** in front of the horn and **20 feet in diameter**. Common applications include baghouses, SCRs and ESPs, and mounting on top of bins or hoppers to break up bridging and ratholing.

- **Easy to install** — mount outside the vessel or hang inside
- Fewer unscheduled shutdowns for cleaning — better process efficiency
- **Low maintenance** — the titanium diaphragm is the only moving part
- Low operating cost · cast iron or stainless steel construction



Specifications · ACL 9475

Frequency	100 Hz
Sound pressure (approx.)	148–165 dB
Cleaning distance	60 ft (18.29 m)
Cleaning diameter	20 ft (6.10 m)
Weight	200 lb (91 kg)
Height	91.56" (2.33 m)
Air pressure	70–90 psi (4.83–6.21 bar)
Air volume	40–80 cfm

Specifications subject to change without notice.

Applications

- **Boilers** — cleans heat-transfer surfaces, increases efficiency, eliminates the need for soot blowers
- **Baghouses** — reduces pressure drop across surfaces, extending bag life
- **Fans** — eliminates material buildup on blades
- **Electrostatic precipitators (ESP)** — eliminates the rapping system and wear to plates and wires
- **Silos, bins & hoppers** — eliminates ratholing and bridging, prevents buildup on vertical walls
- **SCRs** — cleans catalysts

Tell us the vessel, the material and the buildup.

We will engineer a sonic horn proposal specifically for your application — and install it. Pair with air cannons and silo cleaning for the full flow-assurance package.

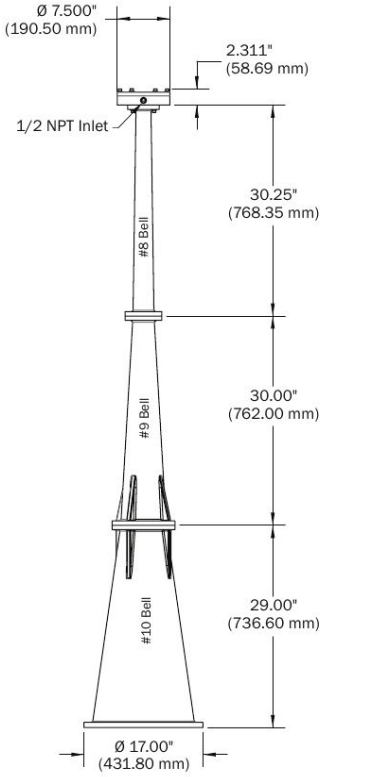
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MODEL ACL 9475 · DIMENSIONS & SYSTEM

Engineered as a system, not a horn in a box.

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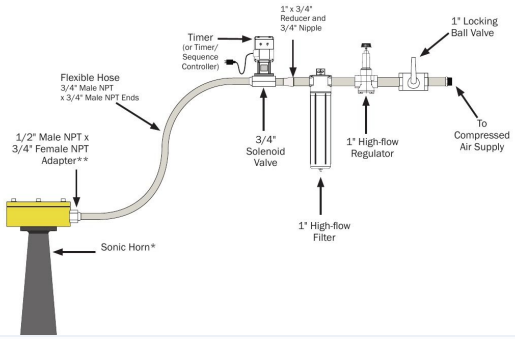
ACL 9475 · #8 / #9 / #10 bell sections · mounting: Ø16.00" BHC, 12 × Ø0.348" thru

Recommendations for a successful installation

- The vessel must be **clean and free of deposits** before the horn goes to work
- Material should be relatively dry and powdery — sonic horns are typically not effective above **25% moisture**
- Maintain compressed air at **70–90 psi / 40–80 cfm** so the horn can emit sound efficiently
- On boilers, aim the horn **in the same direction as the pipes** (end-to-end) so the acoustics travel between pipes and walls — sounding across the pipe bank will not produce effective results

System components

- **Titanium diaphragm** — the only moving part; replace annually
- **Timer** or timer/sequence controller for multiple horns
- **Solenoid valve** controlling air flow to the horn
- **1" high-flow particulate filter** — removes in-line contaminants
- **1" high-flow regulator** — holds supply at 70–90 psi
- **1" locking ball valve** — isolates the horn for maintenance
- Stainless steel flex hose to your compressed air hard piping



Typical sonic horn system layout, from compressed air supply to horn.

One call covers the horn, the plumbing and the timer.

ACT supplies the complete system and our crews install it — OSHA 30 and MSHA Part 46/48 trained, dispatched across CA, NV, OR and WA.

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