

Corona™ Sonic Horns



serving your industry with wet and dry filtration products for over 35 years

cs&s filtration



The Effective Dust Busters...

Caked particles can often be broken up or fluidized with sound waves at a frequency below 300 hertz. The effectiveness of sonic fluidization increases as the sound wave frequency decreases. **In plain words the lower and more intense the sound, the easier the break-up of particles.**

CORONA SONIC HORNS are acoustically engineered to produce and amplify low frequency sound vibration at a high intensity. Independent acoustic testing of the Model CS-125 Corona horn has shown that over 70% of the total acoustic energy is released at a fundamental frequency of 160 hertz with a vibration intensity of 143.3 dB (291.7 pascals) one meter from the bell with a 40-60 psi operating air pressure. **Corona Sonic Horns lead the field in their efficiency in producing useful low frequency sound waves.**

Sonic Particle Fluidization

Sonic horns can be used in virtually any service involving the flow of solid particles where plugging or bridging occurs. **Whether than mechanical vibration which can damage or settle materials further, sonic horns benefit the unloading of bins or hoppers** containing flour, powdered food, cement, drilling mud, gypsum, graphite, or any powdered substance.

In addition, sonic horns are used in baghouse operations inside coal fired boilers and cement kilns. **When filter bags are cleaned, the horns remove particles that agglomerate on the bag material, increasing the lifespan and usefulness of the bag itself as well as energy efficiency.**



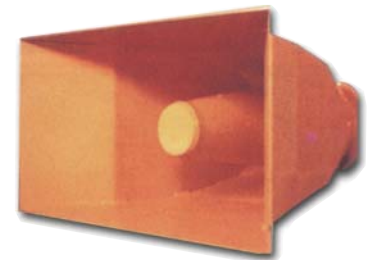
CORONA Model CS-250

A lightweight horn that can be flange mounted to bins, small baghouses, ducts, fans, hoppers, etc. It is light enough for use as a portable maintenance device to remove residual particulates from hoppers, ducts and flow lines. Air consumption is 45-55 cfm at 40-60 psig.



CORONA Model MM-19

Used in storage bins or rail cars to minimize "rat-holing" or ledging during unloading. Adapter flanges are available to fit standard hatch covers 20 inches in diameter or larger. It is supplied in steel or aluminum. Air consumption is 70-90 cfm at 60-80 psig.



CORONA Model CS-125

Successful in baghouse applications, it is about half the length of typical low frequency horns. Sound is generated at the tip of the cone and travels to the base and then reverses direction and exits at the bell end. This unique folded design filters out most of the non-useful high frequency sound waves. One horn can serve 10,400 sq. ft. or bag area or 150,000 cu. ft. of bin storage. Air consumption is 70-90 cfm at 50-70 psig.