

MARTIN® SONIC HORN 230 HZ



Martin® Sonic Horns generate and magnify low-frequency, high-pressure sound waves to cause dry particulate build-up to resonate and fluidize, allowing the material to be removed from the vessel by constant gas flow or gravity. The Martin® Sonic Horn 230 Hz produces 147 dB at one meter with a frequency of 230 Hz.

BENEFITS

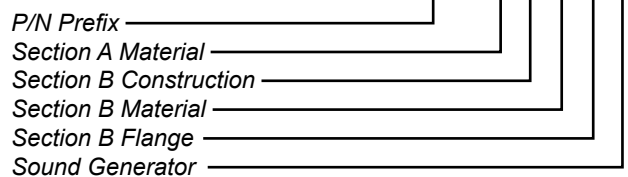
- Prevents dry particulate build-up to increase system efficiency and life.
- Reduces system downtime.
- Reduces maintenance and repair costs.
- Effective around pipes and behind obstacles; Sonic energy de-bonds particulate over a 360-degree sweep, cleaning inaccessible parts.
- Does not create structural fatigue or damage.
- Complies with OSHA dB regulations for vessel interiors.
- Improves effectiveness and prolongs life of catalyst.
- Improves the performance and prolongs the life of equipment.
- Aids compliance with emissions regulations.
- Lowers operating costs.
- Low cost of ownership.

APPLICATIONS

- Boilers, heat exchangers, economizers
- Bag houses
- Selective catalytic reduction (SCR)
- ID Fans
- Electrostatic precipitators (ESP)
- Silos, hoppers, cyclones
- Air pre-heaters

NOMENCLATURE

SH230-X X X X X



SECTION A MATERIAL

- D:** Ductile Iron
- S:** Stainless Steel

SECTION B CONSTRUCTION

- C:** Cast
- F:** Fabricated

SECTION B MATERIAL

- D:** Ductile Iron
- S:** Stainless Steel

SECTION B FLANGE

- 0:** No Flange
(N/A with cast sections)
- 1:** With Flange

SOUND GENERATOR

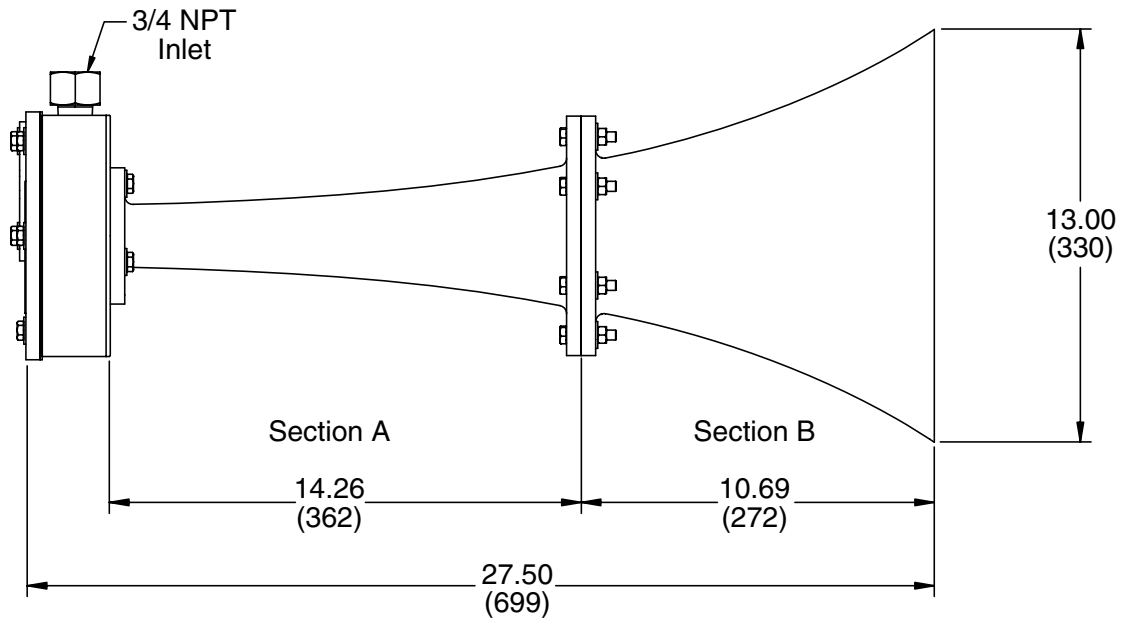
- D:** Ductile Iron
- S:** Stainless Steel
- Blank:** No Generator

SPECIFICATIONS

Fundamental Frequency (Hertz)	230 Hz	
Output Power Level (Decibels)	150 dB	
Material*	Section A	Section B
	Cast Ductile Iron	Cast Ductile Iron
	Stainless Steel	Stainless Steel
Diaphragm Material	Titanium	
Max Operating Temperature (Cast Ductile Iron)	1200°F (650°C)	
Max Operating Temperature (Stainless Steel)	1600°F (870°C)	
Weight	54 lbs (24.6 kg)	
Air Consumption	80 SCFM @ 80 PSI (38 l/s @ 5.51 bar)	

*Sonic Horn can be any combination of listed materials.

Cast Ductile Iron is ASTM A-240. Stainless Steel is ASTM A-395 60-40-18.



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