

MARTIN® SONIC HORN 75 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 75 Hz produces 147 dB at one meter with a frequency of 75 Hz.

BENEFITS

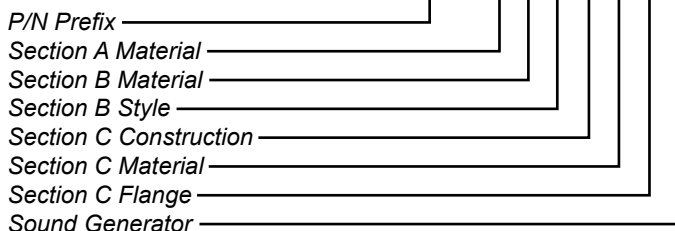
- Prevents dry particulate build-up to increase system efficiency and life.
- Reduces system downtime.
- Reduces maintenance and repair costs.
- Effective around pipes and behind obstacles; Sonic energy de-bonds particulate over a 360-degree sweep, cleaning inaccessible parts.
- Does not create structural 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

SH075-X X 0 X X X X



SECTION A MATERIAL

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

SECTION B MATERIAL

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

SECTION B STYLE

- 0:** Straight
- 9:** 90 Degree Elbow

SECTION C CONSTRUCTION

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

SECTION C MATERIAL

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

SECTION C FLANGE

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

SOUND GENERATOR

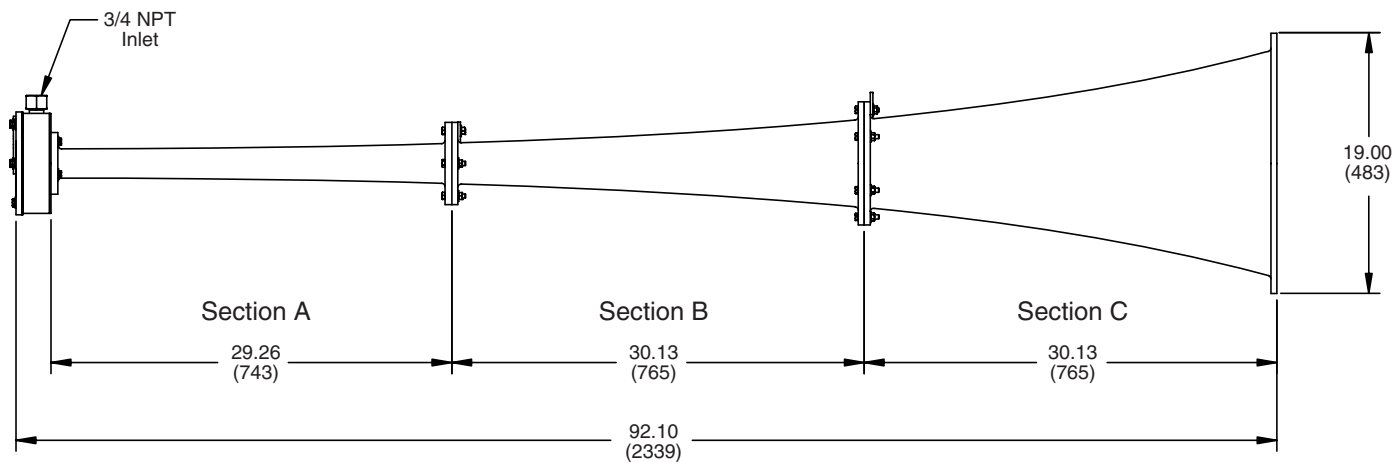
- D:** Ductile Iron
- S:** Stainless Steel
- Blank:** No Generator

SPECIFICATIONS

Fundamental Frequency (Hertz)	75 Hz		
Output Power Level (Decibels)	147 dB		
Material*	Section A	Section B	Section C
	Cast Ductile Iron	Cast Ductile Iron	Cast Ductile Iron
	Stainless Steel	Stainless Steel	Stainless Steel
			Mild Steel
Diaphragm Material	Titanium		
Max Operating Temperature (Cast Ductile Iron)	1200°F (650°C)		
Max Operating Temperature (Stainless Steel)	1600°F (870°C)		
Weight	190 lbs (86.2 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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**COMPANY WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV
 = ISO 9001:2008 =**