

# MARTIN® SONIC HORN 75 HZ 90 DEGREE



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 90 Degree produces 147 dB at one meter with a frequency of 75 Hz.

**BENEFITS**

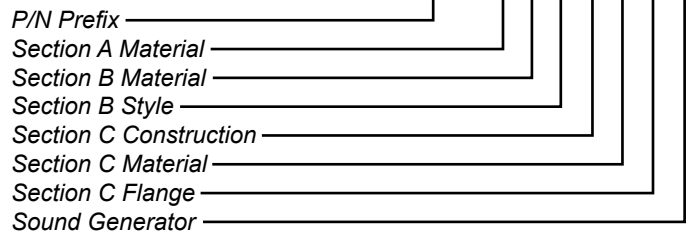
- Prevents dry particulate build-up to increase system efficiency and life.
- Reduces system downtime.
- Reduces maintenance and repair costs.
- Effective around pipes and behind obstacles; Sonic energy de-bonds particulate over a 360-degree sweep, cleaning inaccessible parts.
- Does not create structural 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 9 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

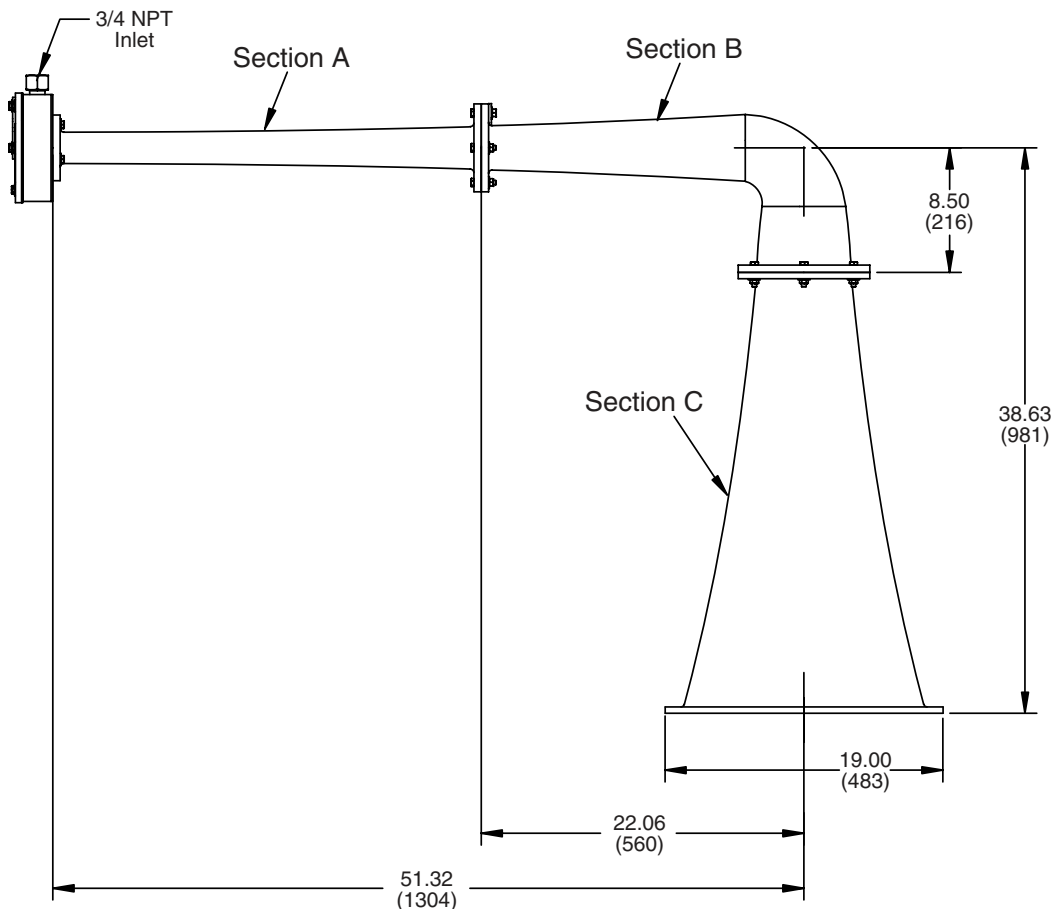
**SOUND GENERATOR**

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

## SPECIFICATIONS

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