



AH99-8T-BSG

8" 2-Way Stadium Horn System 90° x 90°



AH99-8T-BSG

Installation

A heavy-duty stainless steel "C" style mounting bracket is included with the AH99-8T-BSG to allow easy mounting to most any flat surface. Three drop forged eyebolts are also pre-installed (2-front of horn plus 1-rear for "pull-up") for suspension mounting via load rated wire rope. (Use caution when suspending any object overhead. Refer to installation manual for more details).

The AH99-8T-BSG includes a weather resistant 7 pole terminal block connector on the underside of the speaker for ease of hook-up. This terminal block includes connection points for internal 70.7V transformer with taps settings of 7.5, 15, 30, and 60 watts and 8Ω connection for transformer bypass.



AH99-8T-BSG

Features

- Heavy Duty Mounting Bracket (Included) Allows for Easy Installation to Most Any Flat Surface
- Three Forged Eyebolts Also Included for Suspended Installation
- 100 Watts Power Handling
- Constant Directivity Design Offers Controlled Coverage of 90° Horizontal by 90° Vertical (2kHz Octave Band)
- Driver Compliment Includes 8" Cast Frame Woofer with a Concentrically Mounted 1" Exit Compression Driver Coupled to a 90° H x 90°V HF horn
- Easy, Weather Resistant Connection Via a Convenient Recessed Terminal Block Located on the Bottom of the Loudspeaker
- Includes a Built-In, High Efficiency 60 Watt 70.7V Transformer
- Efficiency Rating of 101dB (1 W/1 M)
- Maximum Output of 121dB (Rated Power @ 1 M)

Applications

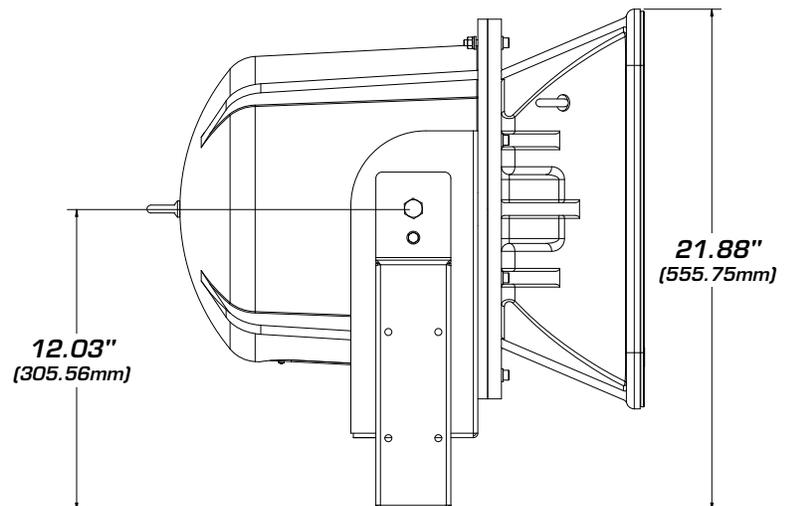
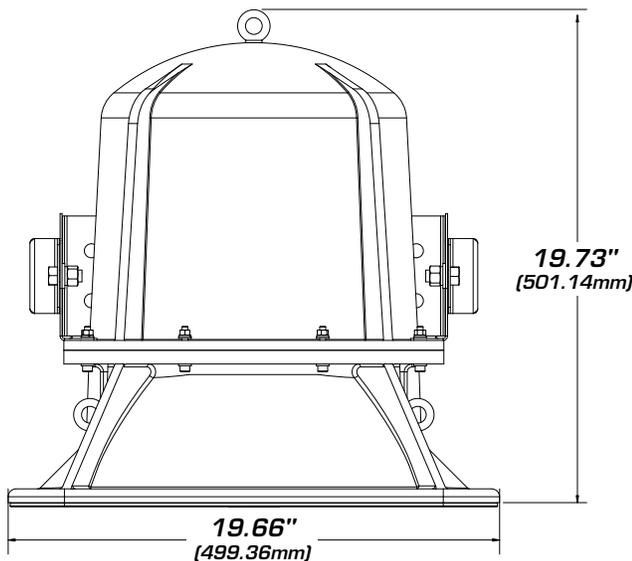
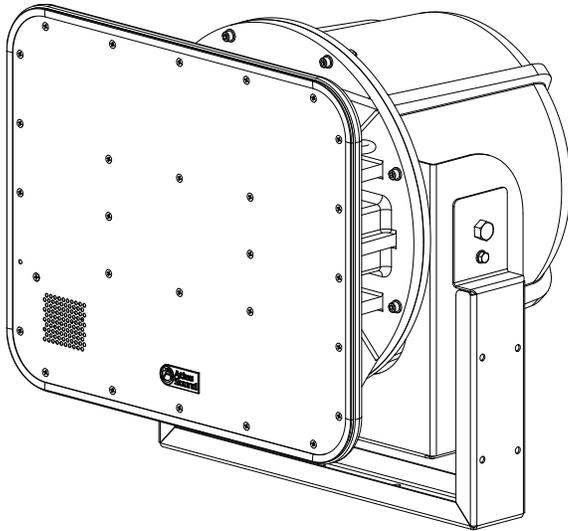
Atlas Sound model AH99-8T-BSG stadium horn is ideal for directional sound distribution where full range reproduction, maximum intelligibility, and high sound pressure levels are required. Applications include football stadiums, sports arenas, baseball fields, convention centers, and auditoriums.

Weather resistant construction features of the AH99-8T-BSG include a multiple screen configuration to prevent moisture from damaging internal components, a perforated aluminum screen covers the large horn mouth, a secondary screen is in place forward of the high frequency driver, and a third tightly perforated screen protects the 8" cast frame woofer.

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Specifications

Power Rating	100 watts
Sensitivity 1W/1M	101dB SPL (70Hz to 17kHz 1/3 octave bands)
Frequency Response	90Hz - 15kHz (±5dB)
Dispersion	90° x 90°
Impedance	8Ω Nominal
Transformer Taps	7.5, 15, 30 and, 60
Height	21.88" (555.75mm)
Width	19.66" (499.36mm)
Depth	19.73" (501.14mm)
Shipping Weight	64 lbs (24.5kg)
Driver Type	1" HF and 8" LF



Architect & Engineer Specifications

Loudspeaker shall be Atlas Sound Model AH99-8T-BSG or approved equal.
The loudspeaker system shall be a horn-loaded, 2-way design with an 8" inch polycone woofer.

The loudspeaker system shall include an 8", horn loaded, cast frame woofer and an integral, concentrically mounted 1" exit compression driver coupled to a constant directivity high frequency horn. The three pole (18dB/octave) dividing network shall have a crossover frequency of 1.8kHz. The dividing network shall include a poly switch protection circuit for the high-frequency component.

The loudspeaker system shall be capable of providing a sound dispersion angle of 90° horizontal by 90° vertical in the 2kHz octave band.

Rated power shall be 100 watts RMS based on EIA Standard RS-426B.*

Enclosure shall be UV-resistant, low pressure injection molded fiberglass and shall include a 3 stage multiple mesh filter system for weather and rodent resistance: to include a 20-gauge perforated aluminum screen on front mouth assembly, a 100 x 100 weave stainless steel mesh between HF horn and HF driver and a 100 x 100 weave stainless steel mesh over 8" woofer. The loudspeaker shall include a stamped and formed, 2mm stainless steel powder coated mounting bracket assembly for surface mounting and three M8 drop forged eyebolts for suspension mounting two at the front and one at the rear to allow the speaker system to be suspended and aimed using rated wire rope.

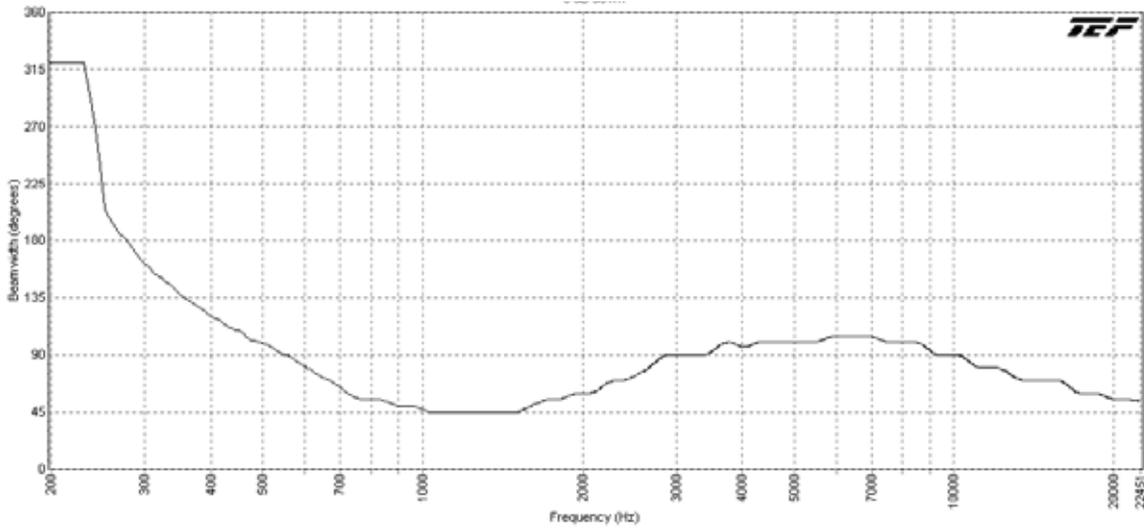
Sensitivity shall be 100dB SPL (90Hz – 15kHz in 1/3 octave bands) measured at a distance of one meter on axis with a one watt input half space (2.83V).

Overall frequency response shall be 90Hz – 15kHz (±5dB).

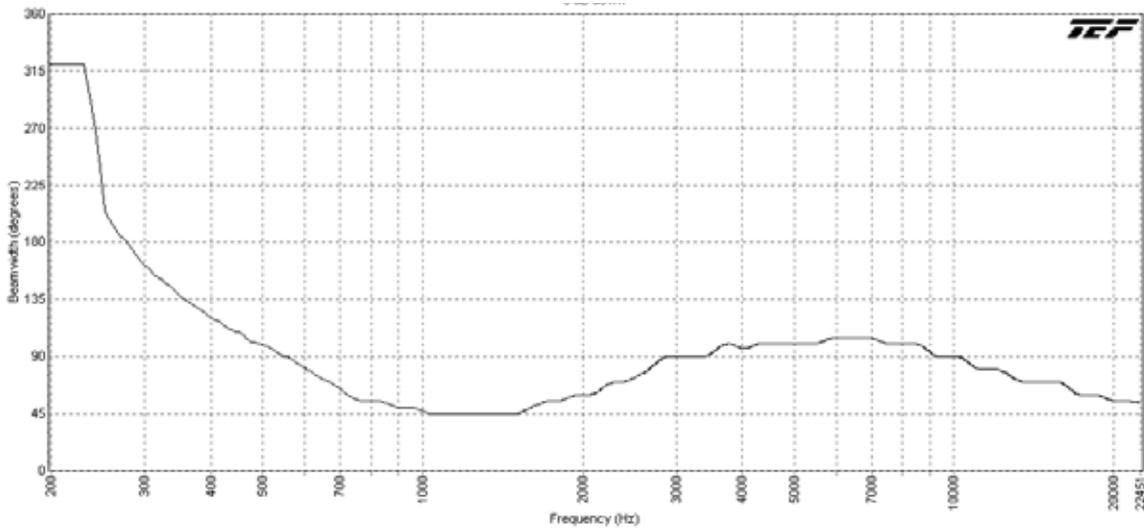
The input section located on the bottom rear of the loudspeaker shall be via 7 position screw down terminal strip internally configured to allow input to an internally mounted 70.7V transformer with 7.5, 15, 30, & 60 watts taps and a bypass jumper direct coupled to the Speaker for nominal 8Ω operation. The system connections shall be protected from the elements by a screw affixed weather resistant cover.

Dimensions shall be: Height: 21.88" (555.75mm)
Width: 19.66" (499.36mm)
Depth: 19.73" (501.14mm)
Weight: 64 lbs (24.5kg)

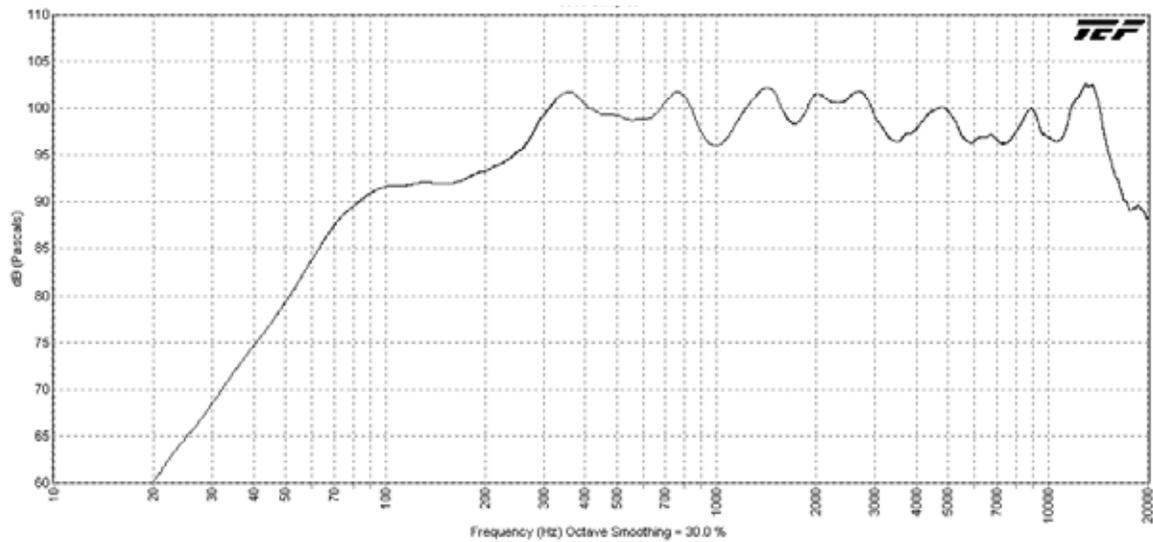
*EIA test spectrum is applied for eight hours.
(This procedure provides a rigorous test of both thermal and mechanical failure modes.)



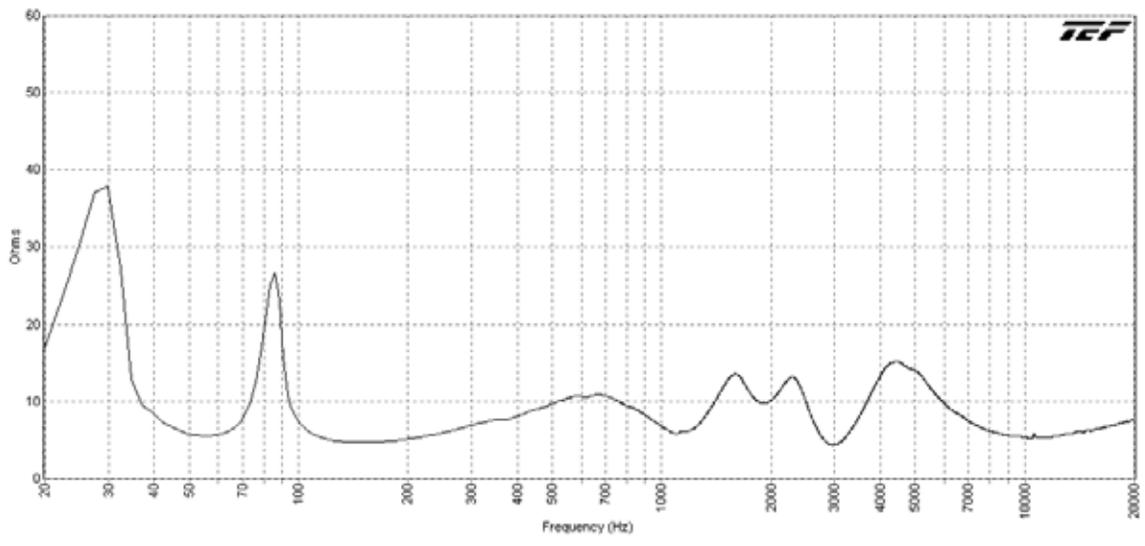
AH99-8T-BSG Horizontal Beamwidth (-6dB)



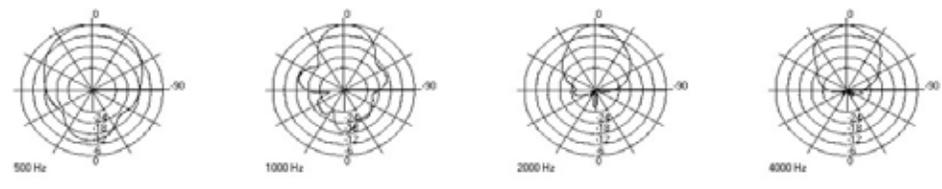
AH99-8T-BSG Vertical Beamwidth (-6dB)



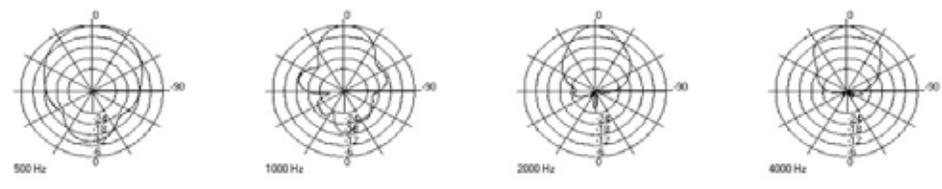
AH99-8T-BSG Frequency Response



AH99-8T-BSG Impedance (ohms) vs. Frequency



AH99-8T-BSG Polars (Normalized To Zero On Axis) (-6dB)



AH99-8T-BSG Polars (Normalized To Zero On Axis) (-6dB)