



# Compression Drivers for Electronic Siren Loudspeakers

## SD-70, AS100N

### Features

- Choice of 58 Watt or 100 Watt Power Handling for High Intelligibility and Sound Penetration
- Heavy-Duty Weatherproof Construction
- Specifically-Designed for Electronic Siren and Signaling applications
- Accommodates Most Horns and Reflex Horns with Standard 1 3/8" – 18 Thread Pattern

### Applications

Depend on the Atlas Sound SD-70 and AS100N compression drivers for electronic siren and signaling needs on emergency and law enforcement vehicles, as well as for use in stationary and mobile public address systems. SD-70 and AS-100N provide maximum power conversion with low-amplifier output to fulfill high-intelligibility and sound-penetration requirements. The Atlas Sound SD-70, rated at 58 watts RMS, is recommended for medium-power systems such as commercial and industrial warning systems. The Atlas Sound AS-100N, rated at 100 watts RMS, is recommended for high-power systems in public safety, civil authority, military, or emergency medical applications. Either unit can be used with most horns or reflex horns equipped with the industry standard 1 3/8" – 18 thread pattern.

### General Description

The 58 watt SD-70 and the 100 watt AS100N compression drivers are standard components of Atlas Sound's electronic siren loud-speaker assemblies. Weatherproof units are ideal for use in police, fire, ambulance, and utility vehicles. SD-70 is recommended for medium-powered systems; AS100N for high-powered systems. Drivers are equipped with a non-fatiguing, self-aligning sound chamber assembly containing a 2 3/4" phenolic diaphragm with a nominal impedance of 11  $\Omega$ . Replacement head assembly, the Atlas Sound K-70GB is available for field replacement of SD-70 and the Atlas Sound K-100N for AS-100N. Product series is suitable for use with matched amplifier and control equipment in systems requiring AMECA (Automotive Manufacturer Equipment Compliance Agency, Inc.) certification to General Services Administration specifications (KKK-A-1822C). The AS100N is constructed using an NEODYMIUM-IRON-BORON magnet.



SD-70

### Specifications

#### SD-70

Power Rating	58 watts*
Impedance	11 $\Omega$
Plane Wave Frequency Response	100 Hz - 2 kHz ( $\pm 5$ dB)
Low Frequency Limit @ Full Power	500 Hz
Sound Level ***	115.8 dB
Diameter	4 5/8" (111 mm)
Height	3 3/8" (90 mm)

#### AS100N

Power Rating	100 watts**
Impedance	11 $\Omega$
Plane Wave Frequency Response	100 Hz - 2.5 kHz ( $\pm 5$ dB)
Low Frequency Limit @ Full Power	500 Hz
Sound Level ***	117 dB
Diameter	4 5/8" (117 mm)
Height	3" (76 mm)

\* 25V into 11  $\Omega$  = 58 watts  
 \*\*33V into 11  $\Omega$  = 100 watts  
 \*\*\*Measured on a plane wave tube @ 1mW

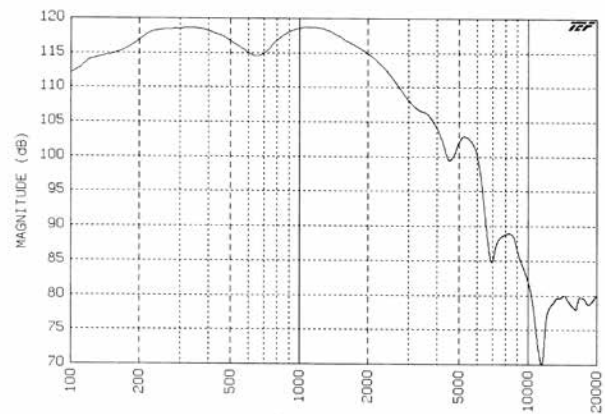
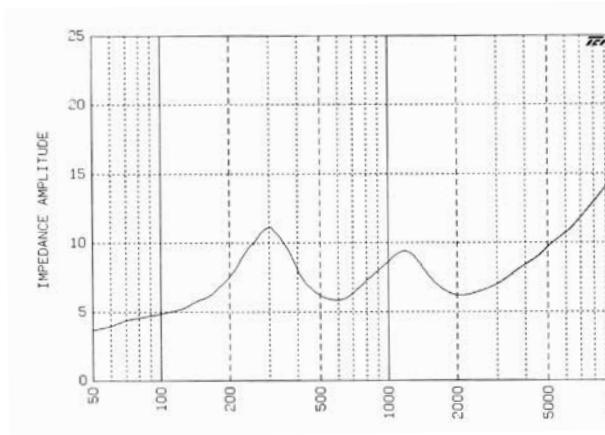
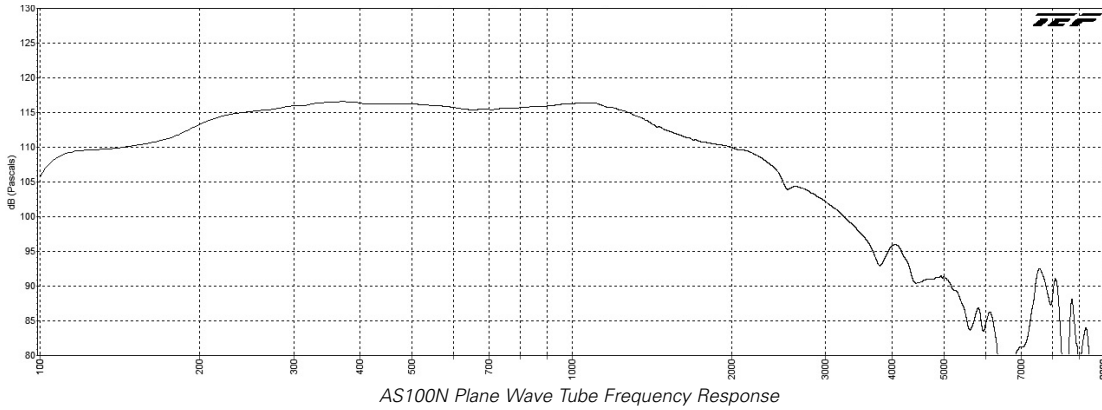
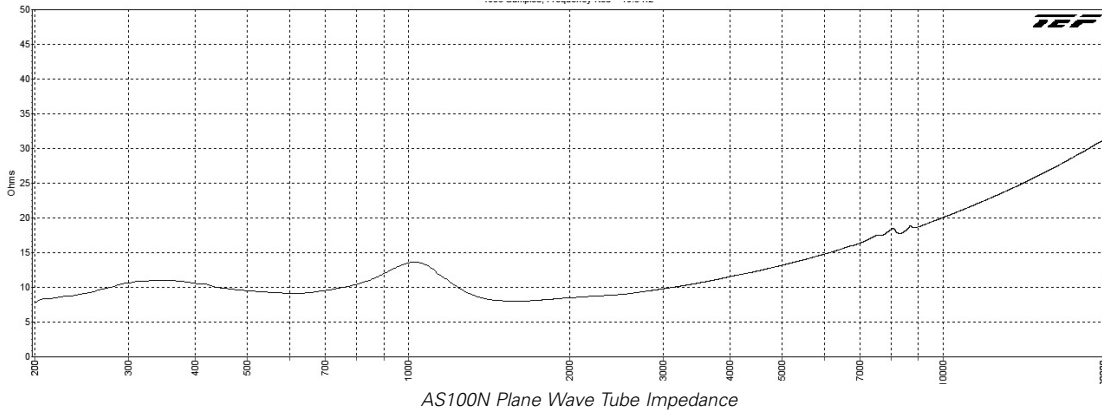


AS100N

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## Architect & Engineer Specifications

Siren loudspeaker shall be Atlas Sound Model (SD-70, AS100N) or approved equal. Assembly shall have a full-range power capacity of \_\_\_\_\_ watts RMS. Rated frequency response range shall be \_\_\_\_\_ Hz  $\pm 5$  dB when measured on a plane wave tube at 1 mW. Unit shall have a sound pressure output of \_\_\_\_\_ dB at rated power when measured on a plane wave tube at 1 mW. Driver shall be capable of standard indoor/outdoor use and be weather resistant. Units shall terminate in the industry standard 1/8" - 18 thread pattern. Diaphragm material shall be high-temperature molded phenolic.



**NOTE: Plane wave tube measurements provide resistive loads to test drivers. Actual frequency response of a driver / horn combination will vary depending on the horn used with the driver. Consult individual horn specification sheet for typical horn frequency response.**

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