

SA8535 & H8535/70

In this documentation you will find information about:

- Description
- Features
- Maintenance
- Technical specifications

Description

In 1983 Stage Accompany started an ambitious project with the aim of making a different type of loudspeaker suitable for professional applications.

This was based on one fundamental consideration; the present amplifier output must allow the development of the high- loudspeakers which no longer use the compression mechanism, to produce a pure sound, particularly at the customary high outputs.

Ten years of development activities have finally resulted in the SA8535 Compact Driver. An unparalleled new type of medium and high-frequency loudspeaker. The SA8535 is a patented ribbon type loudspeaker without the drawbacks of conventional compression drivers.

The special and simple design of the SA8535 is probably the most important reason for the unprecedented sound quality produced by this ribbon type loudspeaker. Moreover, the recent development of new magnet material and cast-iron plastic film has contributed to the creation of the SA8535.

Features

- Unsurpassed clarity and speech intelligibility
- Extreme little distortion
- High power handling (up to 2000W peak)
- Wide frequency response (1kHz - 30kHz)
- Unequalled transient response
- Direct Drive Diaphragm, no cone break-up, no compression mechanism
- Low weight & high output through Neodym® magnet structure

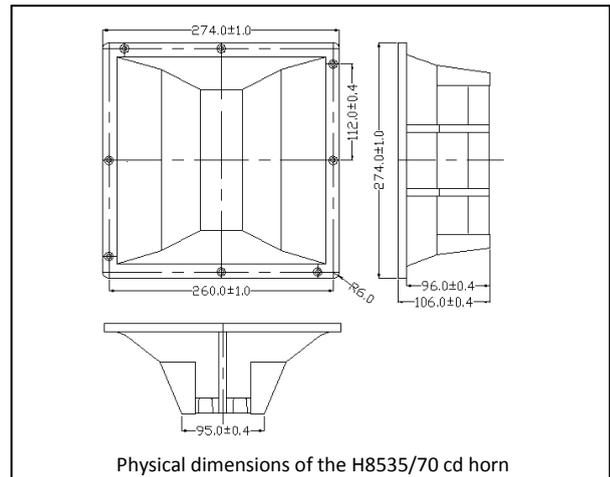
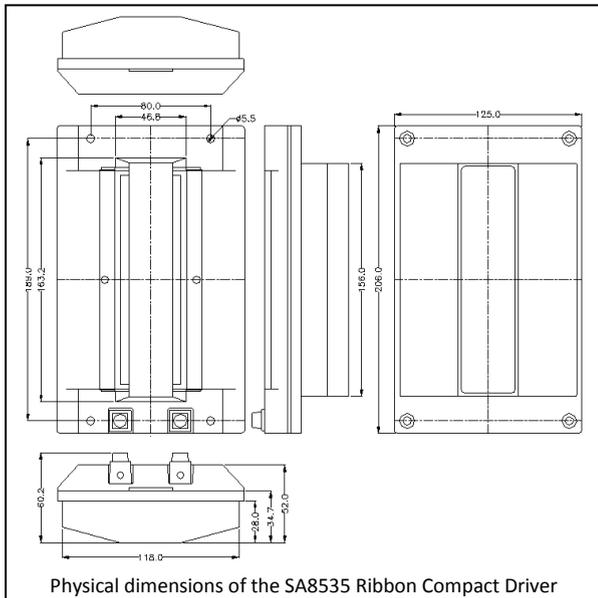
Maintenance

Maintenance on the SA8535 is best left to official Stage Accompany service personnel. However, documentation on replacing the SA8535 diaphragm is available separately.

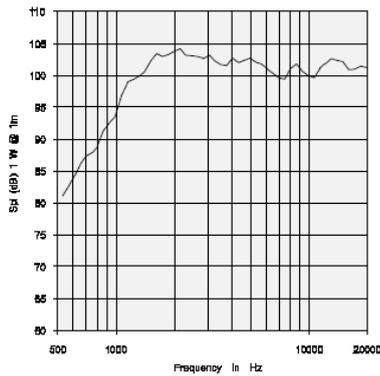
Caution!

Because of the Neodym® magnets strong magnetic field, do not approach the SA8535 with a normal screwdriver or other objects that are sensitive to strong magnetic fields. There is a high risk of damaging the diaphragm when magnetic sensitive tools are used. For installation of the driver use non-magnetic screws and screwdriver instead.

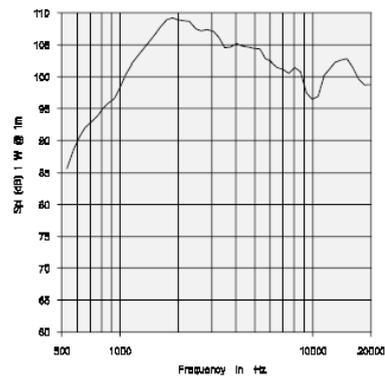
Feeding the driver frequencies below 1kHz and/or power over the rated power handling (60W RMS) can cause driver (-diaphragm) failure. Do not expose the driver to extreme humidity and/or high temperatures.



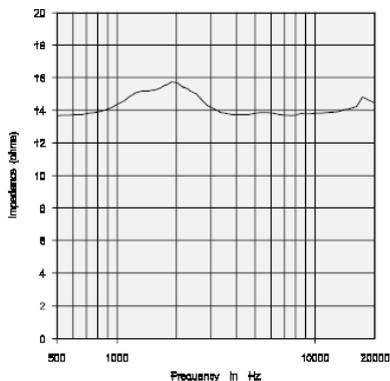
SA8535 / H8535/70 response plots.



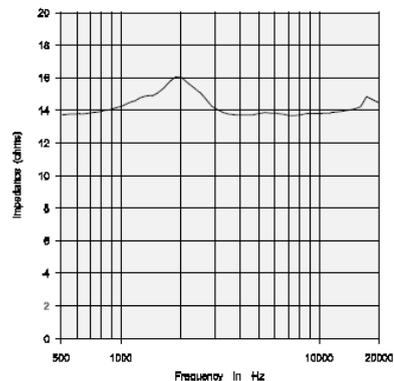
On axis response of SA8535 in IEC baffle.



On axis response of SA8535 on H8535/70 horn.



Impedance response of SA8535 in IEC baffle.



Impedance response of SA8535 on H8535/70 horn.

Technical specifications

| | |
|---------------------------------|---|
| Frequency response | : 1000Hz – 30kHz |
| Nominal impedance | : 13Ω |
| DC voice coil resistance | : 12.4Ω << 5% @ 20°C |
| Sensitivity (2kHz oct. band) | : 103dB, 1W @ 1m, direct radiating 107dB, 1W @ 1m, on H8535/70 horn |
| Max. RMS power | : 60W |
| Max. Peak power | : 1000W (200ms) |
| Coverage (H x V) | : 120° x 90°, direct radiating 70° x 40°, on H8535/70 horn |
| Diaphragm | : polyimide laminated with 0.002mm (0.0008") aluminum |
| Voice coil | : precision photo-etched aluminum |
| Recommended cross-over | : 1kHz or higher, 12dB/oct. minimum |
| Color | : SA blue, other colors on request |
| Connectors | : spring-terminal |
| Physical dimensions (H x W x D) | : SA8535, 206mm x 52mm x 125mm (8.1" x 2.0" x 4.9") H8535/70, 274mm x 274mm x 106mm (10.8" x 10.8" x 4.2") |
| Weight | : SA8535, 4.2kg (9.2lb) H8535/70, 1.0kg (2.2lb) |



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That's How Music Should Sound!