

Audience AH36

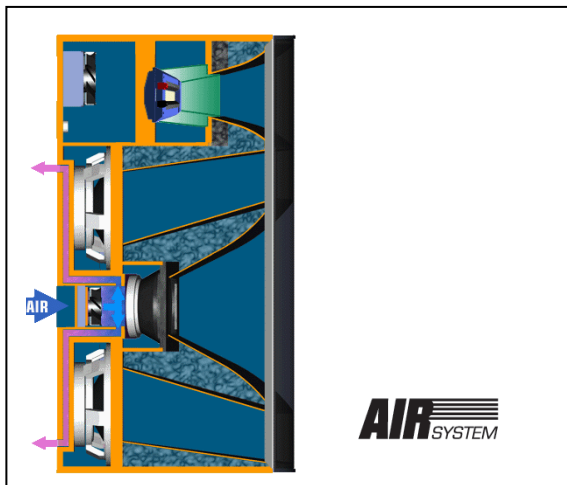
In this documentation you will find information about:

- Description
- Placement
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- Maintenance
- Connections
- Options
- Technical specifications

Description

The AH36 is a three-way active-filtered LMF/MF/HF cabinet, featuring double SA1205 12" speakers, double SA0802 8" speakers and double SA8535XL Ribbon Compact Drivers; all mounted on their own wave-guide with a symmetrical coverage of 36 degrees horizontal and 30 degrees vertical.

All speakers in the AH36 are forced cooled by the SA AIR-system™. The AIR-system™ is reducing magnet operating temperature by 20 degrees. This reduction of operating temperature caters for a dramatically reduced power compression for the cone drivers and a doubled power handling for the Ribbon Compact Drivers.



The AH36 is a combination of traditional craftsmanship and high-tech CNC routers. The horn flares of each section are formed by 3mm Baltic Birch plywood for smooth guided curves. The cavities between the cabinets side walls and behind the horn flares are filled with structural foam. This construction has an excellent "stiffness-to-weight" ratio with excellent acoustic damping and cavity resonance suppression. The cabinet construction is made of 15mm multi-layer Baltic Birch panels, connected with tongue and groove for a larger connecting surface and supported by lightweight bracing. A result for cabinets both extremely durable and very light in weight.

Placement

The AH36 is designed to be used as part of a ground stack system (to complement the SA AB36 sub), but can also be flown (flying hardware integrated). The AH36 cabinets can be "linked" together to form a real horizontal line array for best coverage.

Wiring for DDC™

For absolute top quality sound reproduction, the AH36 is equipped with Dynamic Damping Control™. The DDC™ system is based on two loudspeaker wires that return from the speaker to the (SA) amplifier.

Maintenance

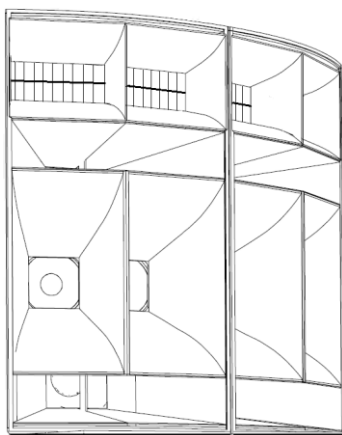
Maintenance on the AH36, especially on the drivers and electronics, is best left to official Stage Accompany service personnel. However, cleaning of the cabinet can easily be done by yourself with a damp lint-free cloth.

Connections

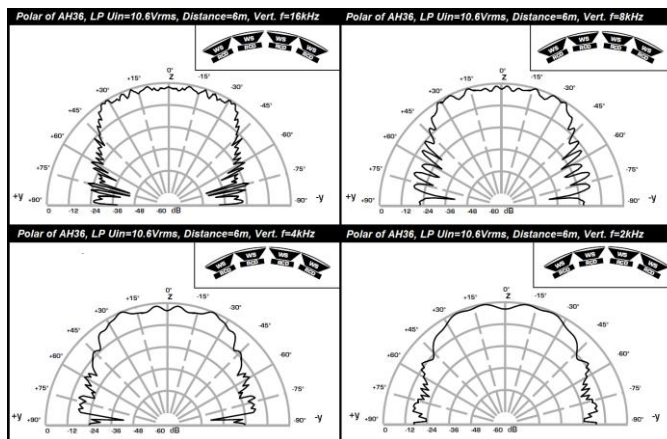
The AH36 is fitted with a SpeakON NL8 at the backside of the cabinet. (Caution: when linking, make sure nominal impedance stays within amplifier specification!).

Options

The AH36 is standard finished in SA Black Protecture, but is also available in any possible RAL color (Multi Color Option™).



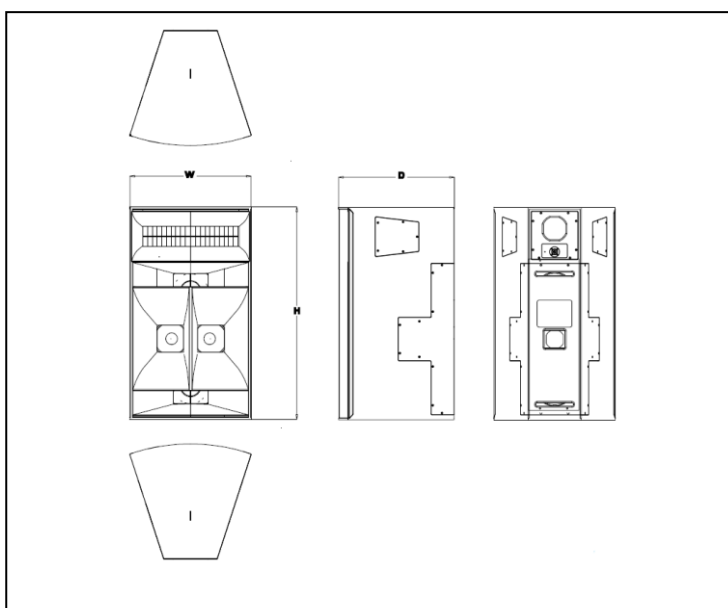
Two AH36 form a horizontal line array.



Polar plots of two AH36 tight-packed.

Technical specifications

Frequency response	: 90Hz – 30kHz (+/- 3dB)
Transducers	: 2 x SA1205, 12" LMF driver 2 x SA0802, 8" MF driver 2 x SA8535XL, HF neodymium driver
Cross-over frequencies	: 250Hz – 1900Hz
Nominal impedance	: 4Ω LMF, 8Ω MF, 6Ω HF
Sensitivity @ 1W/1m	: 107dB LMF, 112dB MF, 113dB HF
Max RMS power	: 300W LMF, 200W MF, 240W HF
Max peak power	: 2000W LMF, 1300W MF, 1540W HF
SPL program/peak	: 133/140dB LMF, 135/142dB MF, 137/145dB HF
Coverage angles (H x V), single enclosure	: 36° x 30°
Signal processing	: presets for various controllers are available on request
Enclosure construction	: 15mm Baltic Birch plywood, 8 handles, Protecture finish
Rigging	: integrated flying hardware
Color	: SA Black, other colors on request
Front	: expanded steel with acoustic transparent cloth
Connectors	: 1 x SpeakOn NL8
Physical dimensions (H x W x D)	: 1100mm x 626mm x 592mm (43.3" x 24.7" x 23.3")
Weight	: 87kg (191.8lb) incl. flying hardware
Warranty	: 5 years limited (1 year on 'moving parts')



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