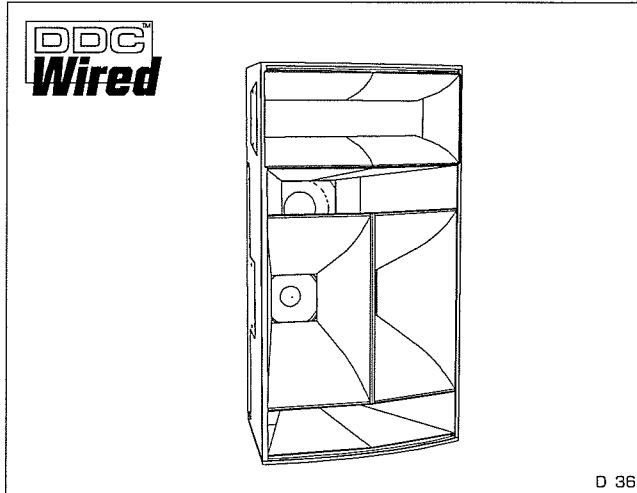




Preliminary Technical specifications D 36



Description

The D 36 is a three-way active filtered LMF/MF/HF cabinet, to be with a bass system (XL-bin) to form a very high output, medium to long throw reinforcement system.

The D 36 consists of double SA 1205 15" speakers, double SA 8" speakers and double SA 8535D Ribbon Compact Drivers; All mounted on their own wave-guide. Application range from "stand-alone" stack system, to a module of a large-scale sound reinforcement, with precise coverage control required.

Freq. response exceeding HiFi standards

The high frequencies are reproduced by SA's proprietary Ribbon Compact Driver; the first breakthrough in loudspeaker technology in 80 years! Because of its different working principle, the speaker can generate frequencies up to 20.000 Hz. with previously unknown clarity and speech intelligibility. Due to this very high transient-response, the actual "throw" of the system is enhanced, while offering unparalleled "gain before feedback".

Director D 36

In this documentation you will find information about:

- Frequency response exceeding HiFi standards
- Seamless line arrayability over entire frequency spectrum
- Very dynamic power handling (up to 4800W total peak)
- SPLmax 145dB @ 1m
- Unparalleled gain before feedback
- for medium to long throw applications

Absolute seamless line-arrayability

Because all sections of the system are "wave-guided", there is complete control over the dispersion pattern in the horizontal and vertical plane.

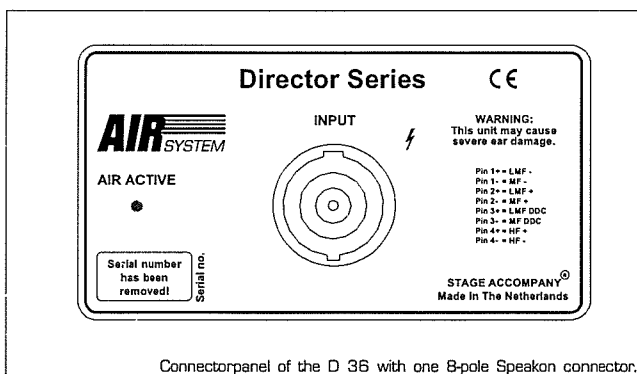
The HF section features SA's proprietary "WaveShaper*™" with which a precise acoustical HF coupling is realized between the two planar ribbon drivers, forming a genuine "line source" output.

The MF section consists of multiple smaller drivers (two 8") for improved coupling with HF section. The LMF section is based on double SA 12" in dipolar configuration for extended vertical pattern control.

Very dynamic power handling

By combining SA's proprietary AIR™-system speakers together with large over-dimensioned magnets and voice-coils, all sections in the system have a very high peak power handling, up to 145 dB @ 1m. The AIR™-system is an interactive cooling circuit, reducing magnet operating temperature rise by 40%. All speakers in the D 36 are air-cooled.

The speed of the fan, as well as the powering, is micro-processor controlled from the EFN circuitry within the amplifier.

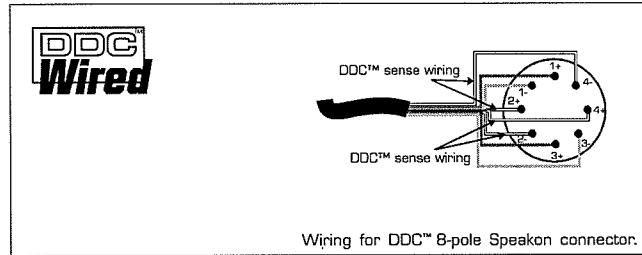


Connectorpanel of the D 36 with one 8-pole Speakon connector.

* patent pending

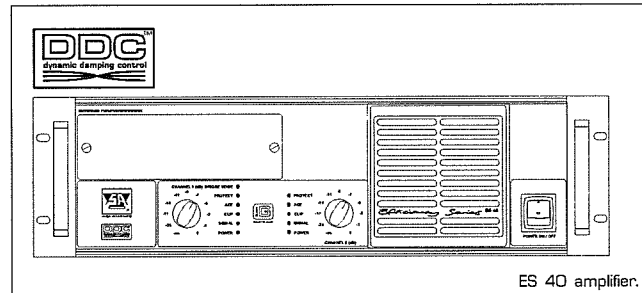
Dynamic Damping Control

The As all SA systems, the D 36 is completely DDC pre-wired. When using an SA amplifier, the influence of speaker cables and connectors is completely eliminated, resulting in an impressive damping factor of 10.000 at the speaker terminals. The optimized transient response caters for tighter and more accurate mid and bass reproduction. Furthermore DDC substantially reduces both linear and non-linear distortion.



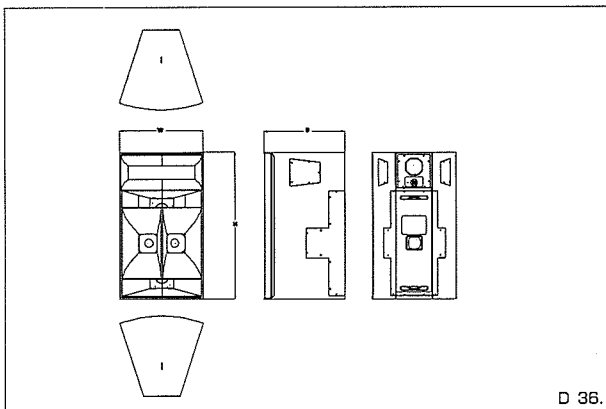
Powering

Recommended amplifier is the Efficiency Series ES 40. The EFN circuitry within the ES 40 provides dedicated control over the speakers, by a model-dependant processing module. This module has the exact parameters of the speakers, for clip-excursion protection, dedicated filtering, time-alignment and level adjustments. The Director HF module also features processor-controlled AIR™ system powering and control.



Technical specifications

Frequency Response	: 90-20.000Hz
Drivers	: LMF 2x SA 1206, MF 2x SA 8, HF 2x SA8535D
Cross-over frequency	: 250-1500Hz
Nominal impedance	: LMF 4ohm, MF 8ohm, HF 7ohm
Sensitivity @ 1W/1m	: LMF 107 dB, MF 112 dB, HF 113 dB
Max. RMS power	: LMF 300W, MF 200W, HF 240W
Max. Peak power	: LMF 2000W, MF 1300W, HF 1540W
SPL program/peak (dB)	: LMF 133/140dB, MF 135/142dB, HF 137/145dB
Dispersion (H x V)	: 36 x 30 degrees
Color	: Blue, black, other colors on request
Connectors	: 1 x 8 pole Speakon
Physical dimensions (h x w x d)	: 1100 x 626 x 592 mm (43.3 x 24.7 x 23.3 in.)
Weight	: 80kg (176.4 lb)
Warranty	: 5 years limited (1year on "moving parts")



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