



technical specifications BC543

general

- Double-tuned, bass-reflex loaded cardioid-control subwoofer system
- Triple 18" woofer with all-carbon cone for high pressure loading
- 5.3" voice-coils for low power compression and accurate performance
- Large, centrally-located vent for improved breathing and low compression
- Selectable cardioid patterns with up to 42dB rearward rejection
- SIS™ pre-wired for very high damping and further reduced distortion (with ALC)

description

The BC543 is a self-contained, high-output cardioid subwoofer system for both permanent and portable applications. It is designed to offer a very high output, tight and accurate sub-bass response, as low-frequency extension of any Alcons pro-ribbon system.

By means of a front and rear located woofer configuration, in combination with integrated processing, the system offers selectable cardioid low-frequency pattern control and excellent rear rejection (up to 42dB), without the need for additional cabinets.

Two state-of-the-art 18" long-excursion woofers with 5.3-in. voice-coil with vented triple-spider frame, Neodymium motor structure and all-carbon-fibre cone and dust cap are mounted in a direct-radiating configuration, with centrally-located X-Venting™;



Taking more than 25% of the baffle surface, this port is designed to maximise the system's breathing capacity, while minimising port-compression. The excursion capabilities of the 18" design, extends the output by 3.5 dB compared to traditional 18" designs (not included in SPLpeak spec).

On the rear side, a single state-of-the-art 18" long-excursion woofer with 5.3-in. voice-coil, Neodymium motor structure and all-carbon-fibre cone and dust cap is mounted in a direct-radiating configuration, with Flank-Venting™ port; This folded port design enables optimal reflex-breathing, under minimal baffle dimensions.

The BC543 is powered and controlled by the ALC amplified loudspeaker controller; The ALC offers system-specific drive processing with dedicated optimisation, power and excursion protection, and hybrid filtering.

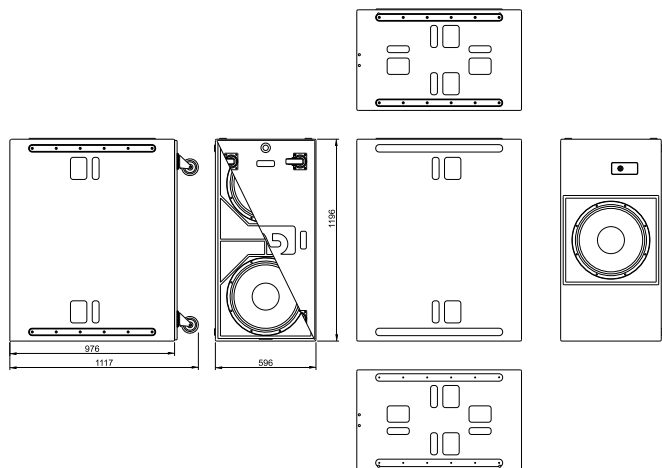
The preset library contains BC543 settings for sub/bass/punch response curves, as well as different cardioid patterns for maximum rear-/side-ward attenuation.

Through the SIS™ (Signal Integrity Sensing) circuit, the cable-length and connector resistance between the BC543

and ALC is completely compensated (system damping factor >10.000), for further increased accuracy and controlled cone-travel, resulting in a tighter sub and bass response.

technical specifications BC543

dimensional drawing



technical specifications

| | |
|---------------------|---|
| Frequency response | 35 Hz – 150 Hz (+/- 3 dB) |
| | 29 Hz - (+/-10 dB) |
| Sensitivity nominal | 100 dB (40 - 100 Hz) |
| Nominal impedance | 4 ohms/front, 8 ohms/rear |
| Recommended drive | Sentinel10, 1 pce. per 2 channels (4 ohms/front, 8 ohms/rear) |
| Nominal SPL peak | 135 dB (Sentinel10 40 - 100 Hz) |
| | 140 dB (comparative) |
| Dispersion H x V | omni (rear not connected) / (hyper)cardioid |

physical specifications

| | | |
|---------------------|-------------------------------------|--------|
| System | subwoofer, bass reflex front + rear | |
| Drivers LF (front) | 2x AW18.6NDC-8 18", X-Vented™ | |
| (rear) | 1x AW18.6NDC-8 18", Flank-Vented™ | |
| Connectors | 1x Speakon NL8 input | |
| Physical dimensions | mm | inches |
| Height | 1196 | 47,1 |
| Width | 596 | 23,5 |
| Depth | 976 | 38,4 |
| Weight (approx.) | kg | lb |
| BC543 | 135 | 298* |
| BC543i | 123 | 271 |
| Warranty | 6 years limited | |

*incl. wheel board

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