The B12-SUB subwoofer



The B12-SUB is a compact high performance cardioid subwoofer intended for mobile applications on the ground.
It houses two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design facing to the front and a 10" driver in a 2-chamber bandpass design radiating to the rear. The arrangement and tuning provide a cardioid dispersion pattern using a single amplifier channel.
Its frequency response extends from 39 Hz to 150/100 Hz.

The cabinet enclosure is constructed from marine plywood and has an impact and weather protected PCP finish. The front and rear of the cabinet is protected by a rigid metal grill backed by an acoustically transparent and water repellent fabric.
Each side panel incorporates a handle and mounted on the rear panel are four heavy duty wheels.
Two runners extend from the rear to the front panel of the cabinet protecting the bottom panel against scratching.
Two correspondingly shaped recesses are incorporated in the top panel to accept these runners and prevent cabinet movement when stacking.
An M20 threaded flange in the top panel accepts a corresponding pole for the deployment of TOP cabinets.

d&b amplifiers
The d&b audiotechnik loudspeaker range is designed exclusively for operation with d&b amplifiers. These provide power as well as comprehensive control and protection functions tailored to achieve the performance, reliability and longevity associated with the d&b system approach.

System data

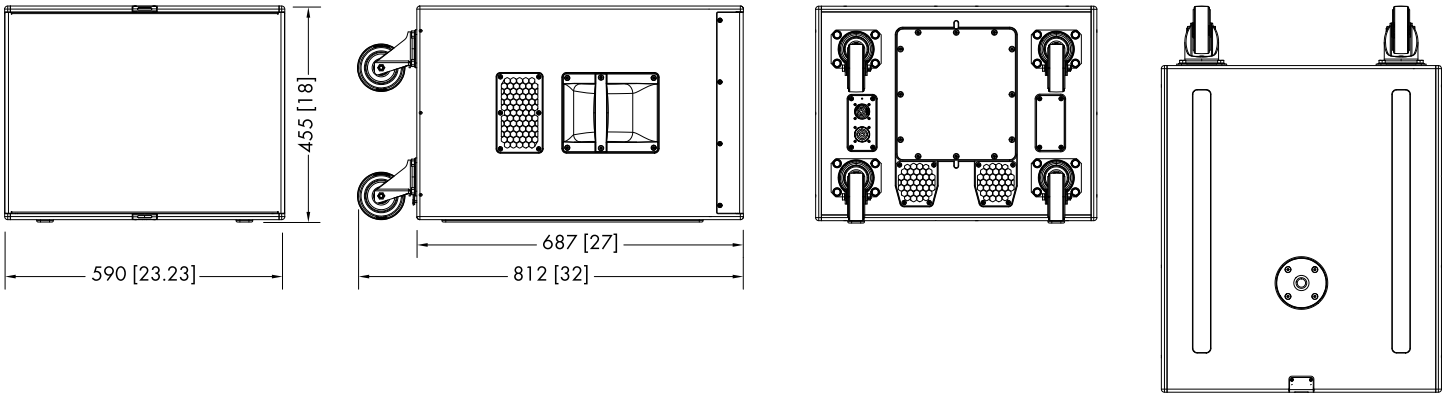
Frequency response (–5 dB Standard)	39 Hz - 150 Hz
Frequency response (–5 dB 100 Hz mode)	39 Hz - 100 Hz
Frequency response (–10 dB standard, IEC60268)	35 Hz - 180 Hz
Frequency response (–10 dB 100 Hz mode, IEC60268)	35 Hz - 140 Hz
Max. SPL (Peak, 1 m, free field, pink noise with crest factor 4)	
with D25/D20/25D/30D	129 dB
with D40/D90/D80/40D	132 dB

Loudspeaker data

Nominal impedance front/rear	10 ohms
Power handling capacity (RMS/peak 10 ms)	500/1200 W
Components	1 x 15" driver front/1 x 10" driver rear
Connections	1 x NLT4 F/M
Pin assignment	2+/2–
Weight	42 kg (93 lb)

d&b audiotechnik

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B12-SUB cabinet dimensions in mm [inch]

Applications

- Small and medium scale sound reinforcement applications
- Concert halls
- Houses of Worship
- Theaters
- Clubs and live music venues

Features and benefits

- Cardioid dispersion pattern reduces LF acoustic energy emitted towards the sides and rear of the Subwoofer, minimizing interactions and reflections from surrounding boundaries, stage level and feedback and unwanted propagation away from the intended listening areas.
- Passive cardioid principle reduces cabling infrastructure and total amplifier/DSP channel count, for streamlined and cost effective system architectures.
- Lightweight and compact, with highly efficient use of the associated amplifiers, to deliver excellent power density in a versatile, convenient form-factor, with all necessary accesories and design features for mobile applications.

Architectural specifications

The loudspeaker shall be a compact high performance, passive cardioid subwoofer.
It shall consist of two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design shall facing to the front and a 10" driver in a 2-chamber bandpass design shall radiating to the rear. The arrangement and tuning shall provide a cardioid dispersion pattern using a single amplifier channel.
The loudspeaker shall only be operated by a dedicated, compatible controller amplifier.
The cabinet enclosure shall be made from marine plywood with an impact resistant paint finish.
The driver shall be protected by a rigid metal grill backed by an acoustically transparent and water repellent fabric.
The cabinet shall incorporate one handle in each side panel and four transport wheels at the cabinet's rear.
A M20 threaded insert shall be incorporated in the top panel to accept a loudspeaker stand.
Two runners shall be incorporated in the bottom panel to prevent the cabinet from movement and two corresponding recesses in the top panel shall be incorporated to prevent movement of stacked cabinets.
The connection panel on the back shall be recessed and fitted with speakON NLT4 F/M sockets.
The power handling capacity shall be 500 W RMS and 1200 W peak (10 ms). The frequency response (–5 dB) measured on axis shall be 39 Hz to 150 Hz with a maximum sound pressure of at least 132 dB.
The dimensions (W x H x D) shall not exceed 590 x 455 x 812 mm (23.23" x 18" x 32" - with wheels) and shall weigh no more than 42 kg (93 lb).

The loudspeaker shall be the B12-SUB by:
d&b audiotechnik GmbH & Co. KG.

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