

LAB 15 SP

FEATURES

- Self-powered system (1250 W EIAJ, PWM power amp module)
- Very high SPL (137 dB peak @ 1 m)
- 15" long-throw woofer cone with NdFeB (Neodymium Iron Boron) magnet and 100 mm voice coil
- Highly ingenious acoustic design that ensures top performance: a hybrid waveguide indirect radiation system able to completely recover low frequency sound pressure emitted from the rear of its 15" woofer.
- Deep, very clean low frequencies, due to a pulse response with a very low ripple
- Built to be used alone or in multiples, with the utmost reduction of space occupied in relation to its output and SPL achieved
- Easy transport when used with mobile rigs, and fits easily into any permanent installation
- Attractive look that fits perfectly into any type of surroundings or décor
- Original design with a square footprint: two stacked cabinets form an exact cube
- The cabinet is internally braced to ensure the utmost sturdiness, free from harmful sound "colouring" due to resonance; an optional trolley with sturdy smooth-running wheels facilitates transport, even on relatively uneven surfaces.



APPLICATIONS

- No-nonsense use in "live" concerts of all sizes, floor or stage mounted and combined with other units of the same type for sound reinforcement of low frequencies.
- High-quality permanent installations in theatres, clubs, indoor sports arenas; an ideal combination for all Outline loudspeaker systems.
- Four stacked units stand just 1.72 metres high (5.6 feet), but form a compact high powered array that is ideal for sound reinforcement in large indoor or outdoor areas.

DESCRIPTION

LAB 15 SP is a loudspeaker system suited to high-quality sound reinforcement of low frequencies. It comprises a PWM power amplifier module (1250 W EIAJ on 6 Ω) and a 15" NdFeB long-throw woofer magnet and 100 mm voice coil.

Loading is a hybrid waveguide indirect radiation system able to completely recover low frequency sound pressure emitted from the rear of its 15" woofer.

The enclosure is built to be used alone or in multiples, horizontally or vertically with the utmost reduction of space occupied (86 x 86 x 43 cm) in relation to its output and SPL achieved. LAB 15 has an original design with a square footprint: two stacked cabinets form an exact cube.

It's a unique subwoofer combining hi-fi quality with professional reliability. This hybrid system features both a waveguide and indirect radiation. The ingenious acoustic "architecture" features two suitably tuned ports - one on the front and the other on the rear - which ensure a considerable increase of sound pressure over the frequency range. LAB 15 SP has a useable frequency range at -10 dB of 33 Hz to 174 Hz while the response is just ± 3 dB from 42 Hz to 160 Hz. When driven at maximum AES power it gives 131 dB SPL (137 dB SPL peak) at 1 metre in half-space. The rectangular shaped system is built in sturdy phenolic-glued 15mm baltic birch plywood to ensure total weather protection. The connector panel located on the rear is recessed a few centimetres into the cabinet to eliminate or minimize the risk of water entering in the event of rain. Among the optionals available, a trolley ensures fast handling and efficient protection of the front of the enclosure against impacts. The black external finish is in special high quality wear and weather-resistant paint. The front of the cabinet is protected by an anti-resonant steel grille covered with sound-transparent foam. Twelve strategically positioned integral handles facilitate handling.

TECHNICAL SPECIFICATIONS:

| | | |
|------------------------------------|----------------------------------|----------------------------------|
| FREQUENCY RESPONSE | (-10 dB) (±3 dB) | 33 Hz ÷ 174 Hz 42 Hz ÷ 160 Hz |
| SUGGESTED X-OVER | max 100 Hz | |
| INPUT SENSITIVITY | 3.2 dBu (1.12 V _{RMS}) | |
| AVERAGE DISPERSION | Quasi-Omnidirectional | |
| POWER AMPLIFIER | Class D (Digital) | |
| Type | 10 kΩ balanced to ground | |
| Input Impedance | Natural Air Convection | |
| Cooling | 1250 W EIAJ on 6 Ω | |
| Rated Power (1 kHz, 1% THD) | | |
| MAX SPL @ 1 m (calculated) | Cont. 131 | Peak 137 (half-space) |

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|-------------------|----------------|---|
| CONNECTORS | Audio Mains | 1 XLR + 1 Link Out 1 PowerCon + 1 Link |
| Out | | |

| | | |
|---------------------------------|---|--|
| LOUDSPEAKERS AND LOADING | 1 x 15" NdFeB woofer, 100 mm voice coil | |
| Low | | |

| | | |
|---------------|--------------------------------------|--|
| WEIGHT | Single unit 54 kg (119 lb) | Shipping (1 unit) 62 kg (136.7 lb) |
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| DIMENSIONS | | |
| Height | 43 cm (16.9") | 50 cm (19.7") |
| Width | 86 cm (33.9") | 93 cm (36.6") |
| Depth | 86 cm (33.9") | 93 cm (36.6") |

MULTIPURPOSE SERIES