

## Eighteensound 18LW2400

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Key

### features

Šifra: 5878

Kategorija proizvoda: 18 Inča i Veće

Proizvođač: Eighteensound

**Cena: 34.680,00 rsd**

98 dB SPL 1W / 1m average sensitivity

8 ohms

100 mm (4 in) Interleaved Sandwich Voice coil (ISV)

2400 W program power handling

Triple Silicon Spider (TSS) for superior excursion control and linearity

Double Demodulating Rings (DDR) for lower distortion

Improved heat dissipation via integrated air diffractor and multiple backplate vents

Weather protected cone and plates for outdoor usage

### Description

The 18LW2400 is an 18 inch extended low frequency loudspeaker designed for high SPL subwoofer applications in either a reflex, bandpass or horn loaded configuration. Compared to our industry standard 18LW1400, the 18LW2400 provides higher maximum SPL, increased program power handling and lower power compression.

For optimum results we recommend amplifiers able to deliver 2400 Watt program power without clipping. Transducer design features include a large displacement suspension system which, in conjunction with a fiberglass reinforced, straight ribbed cone and the Eighteen Sound proprietary Triple Silicon Spider (TSS) technology, allows an ultra-linear piston action and provides full mechanical control across the entire working range.

The 100 mm (4 in) inside-outside copper voice coil based on Interleaved Sandwich Voice coil (ISV) technology provides high levels of thermal stability and durability.

In order to furtherly increase power handling and reduce power compression figure, 18LW2400 uses the same voice coil ventilation technology developed for our flagship 9000 neodymium transducer series. A special low density material air diffractor has been placed into the backplate acting as a cooling system, increasing power handling capability and lowering the power compression figure. As a final result Eighteen Sound engineers obtained almost 1 dB reduction in full power power compression value if compared to 18LW1400, and an increased program power handling value of 2400 Watt.

The low distortion and unmatched sound quality of the 18LW2400 has been significantly improved by Double Demodulating Rings (DDR) embedded in the pole piece of the magnetic structure. These have been designed to reduce the intermodulation and harmonic distortion while improving the transient response. 10% reduction in weight have been obtained optimizing the magnetic structure through advanced FEA CAD simulation tools.

18LW2400 is able to perform properly under inclement weather conditions: the exclusive cone treatment improves pulp strength and gives water repellent properties to both sides of the cone. In addition, the special treatment applied to top and back plates of the magnetic structure is far more resistant to the