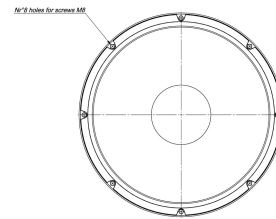
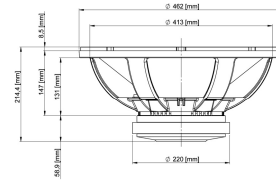




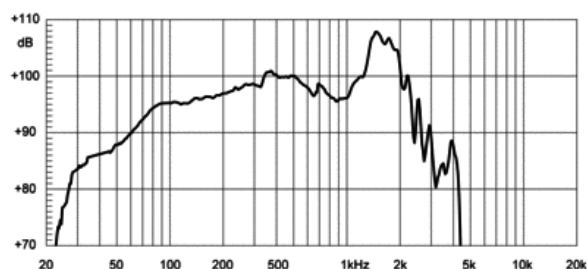
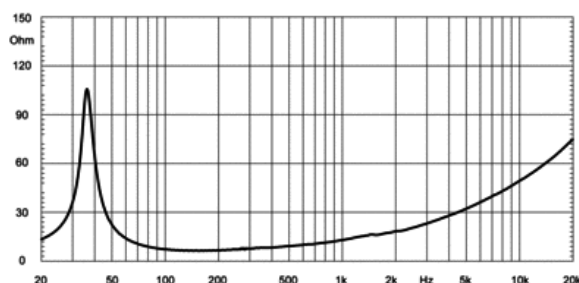
18LW2400 8Ω

Altavoces LF - 18.0 Inches



- 98 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
- 2400 W program power handling
- Fiberglass reinforced cone
- Double Silicon Spider (DSS) for superior excursion control and linearity
- Double Demodulating Rings (DDR) for lower distortion
- Improved heat dissipation via multi-cell air diffractor and multiple backplate vents
- Weather protected cone and plates for outdoor usage
- Ideal for high SPL subwoofer designs

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 Double Silicon Spider (DSS) 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 further 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 corrosive effects of salts and oxidization.





18LW2400 8Ω

Altavoces LF - 18.0 Inches

ESPECIFICACIÓN

| | |
|-----------------------------|-----------------|
| Diámetro nominal | 460 mm (in) |
| Impedancia nominal | 8 Ω |
| Impedancia minima | 6.3 Ω |
| Manejo de potencia nominal | 1200 W |
| Manejo de potencia continua | 2400 W |
| Sensibilidad | 98.0 dB |
| Rango de frecuencia | 31 - 2500 Hz |
| Diámetro de la bobina | 100 mm (4.0 in) |
| Material de la bobina | copper |

PARÁMETROS

| | |
|--------------------------|--|
| Frecuencia de resonancia | 35 Hz |
| Re | 5.0 Ω |
| Qes | 0.32 |
| Qms | 7.2 |
| Qts | 0.31 |
| Vas | 230.0 dm ³ (ft ³) |
| Sd | 1225.0 cm ² (189.88 in ²) |
| Xmax | 9.5 mm |
| Mms | 192.0 g |
| Bl | 25.6 Txm |
| Le | 1.35 mH |
| EBP | 109 Hz |

DISEÑO

| | |
|----------------------|---|
| Recinto recomendado | 220.0 dm ³ (7.77 ft ³) |
| Sintonía recomendada | 37 Hz |

INFORMACIÓN DE MONTAJE Y ENVÍO

| | |
|---|---|
| Diámetro total | 462 mm (18.19 in) |
| Diámetro de circunferencia de los tornillos | 438 mm (17.24 in) |
| Diámetro de la perforación en el baffle | 416.0 mm (16.38 in) |
| Profundidad | 214 mm (8.43 in) |
| Espesor del reborde y junta | 24 mm (0.94 in) |
| Peso neto | 12.75 kg (28.11 lb) |
| Peso del envío | 13.8 kg (30.42 lb) |
| Caja de envío | 482 x 482 x 257 mm (18.98x18.98x10.12 in) |