



18TLW3000 4Ω

Altavoces LF - 18.0 Inches



- 94 dB SPL 1W / 1m average sensitivity
- 3600 W program power handling
- 100 mm (4 in) Tetracoil dual voice coil, equivalent to a single coil diameter larger than 152 mm (> 6 in)
- Ultra linear suspension behavior for excellent sound clarity
- Symmetric flux density and inductance behaviour
- Low noise forced air cooling design
- Water repellent cone and epoxy coated plates for outdoor use
- Suitable for vented, horn loaded and bandpass subwoofer design



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The 18TLW3000 is an 18 inch diameter high performance subwoofer, specifically designed for high SPL subwoofer applications in either a reflex, bandpass or horn loaded configuration. For optimum results we recommend the usage of power amplifiers able to deliver 3600W program power without clipping.

18TLW3000 uses Eighteen Sound proprietary Tetracoil technology, where two different, axially separated magnetic gaps and two inside-outside 4" diameter voice coils are wound on the same former and suspended evenly in the two magnetic gaps.

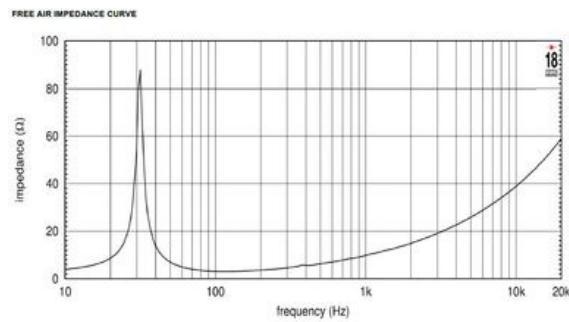
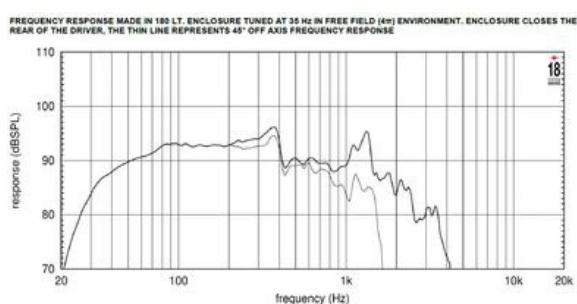
The Tetracoil design key advantages are:

- 1) a symmetric flux density versus displacement behavior, that minimizes the even distortion products;
- 2) a very symmetric and flat inductance curve;
- 3) the equivalent voice coil diameter of a 4" Tetracoil speaker is greater than 6". Consequently heat dissipation occurs over a larger surface area, driving AES power handling up to 1800 W.

18TLW3000 design features include a large displacement suspension system which, in conjunction with a fiberglass reinforced, straight ribbed cone allows an ultra-linear piston action and provides full mechanical control across the entire working range.

In order to furtherly increase power handling and reduce power compression figure, a low density material air diffractor is placed into the backplate venting hole acting as a cooling system, increasing power handling capability and lowering the power compression figure.

18TLW3000 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 membrane. In addition, magnetic structure metal plates coating is far more resistant than standard zinc coating to the corrosive effects of salts and oxidization.





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ESPECIFICACIÓN

Diámetro nominal	460 mm (in)
Impedancia nominal	4 Ω
Impedancia mínima	3.0 Ω
Manejo de potencia nominal	1800 W
Manejo de potencia continua	3600 W
Sensibilidad	94.0 dB
Rango de frecuencia	30 - 2000 Hz
Diámetro de la bobina	100 mm (4.0 in)
Material de la bobina	copper

DISEÑO

Recinto recomendado	180.0 dm ³ (6.36 ft ³)
Sintonía recomendada	35 Hz

PARÁMETROS

Frecuencia de resonancia	32 Hz
Re	2.4 Ω
Qes	0.36
Qms	13.8
Qts	0.35
Vas	185.0 dm ³ (6.53 ft ³)
Sd	1225.0 cm ² (189.88 in ²)
Xmax	12.0 mm
Mms	280.0 g
Bl	20.0 Txm
Le	1.2 mH
EBP	88 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	275 mm (10.83 in)
Espesor del reborde y junta	24 mm (0.94 in)
Peso neto	13.2 kg (29.1 lb)
Peso del envío	14.6 kg (32.19 lb)
Caja de envío	482 x 482 x 257 mm (18.98x18.98x10.12 in)