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Eighteensound 15W750 - Zvučnik

Šifra: 12464
Kategorija proizvoda: 15 Inča
Proizvođač: Eighteensound

Cena: 23.880,00 rsd

75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
Long excursion, linear travel suspension design
Generous low frequency output make it suitable for 2-way systems and subwoofer applications

Eighteensound 15W750 - Zvučnik

Features

97 dB SPL 1W / 1m average sensitivity
1200 W program power handling
Weather protected cone and plates for outdoor usage

General Specifications

Nominal Diameter	380 mm (15 in)
Rated Impedance	8 Ohm
AES Power	600 W
Program Power	1200 W
Peak Power	2500 W
Sensitivity	97 dB
Frequency Range	50 - 4300 Hz
Power Compression @-10dB	1,0 dB
Power Compression @-3dB	2,8 dB
Power Compression @Full Power	4,0 dB
Max Recomm. Frequency	1800 Hz
Recomm. Enclosure Volume	80 - 140 lt. (2,82 - 4,95 cuft)
Minimum Impedance	6,1 Ohm at 25°C
Max Peak To Peak Excursion	38 mm (1,50 in)
Voice Coil Diameter	75 mm (3 in)
Voice Coil winding material	Aluminum
Suspension	Triple-roll, Polycotton
Cone	Curvilinear, high damping pulp

Thiele Small Parameters

Fs	39 Hz
Re	5,1 Ohm

Key

Sd	0,091 sq.mt. (141,05 sq.in.)
Qms	9,34
Qes	0,39
Qts	0,37
Vas	218 lt. (7,70 cuft)
Mms	88 gr. (0,19 lb)
BL	17,6 Tm
Linear Mathematical Xmax	± 8 mm (± 0,31 in)
Le (1kHz)	1,10 mH
Ref. Efficiency 1W@1m (half space)	97,2 dB

Mounting information

Overall diameter	393 mm (15,47 in)
N. of mounting holes and bolt	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	371 mm (14,6 in)
Front mount baffle cutout ø	354 mm (13,94 in)
Rear mount baffle cutout ø	357 mm (14,06 in)
Total depth	184,5 mm (7,26 in)
Flange and gasket thickness	13,5 mm (0,53 in)
Net weight	7,6 kg (16,7 lb)
Shipping weight	9 kg (19,84 lb)
Packaging Dimensions	405 x 405 x 252 mm (15,94 x 15,94 x 9.92 in)

The 15W750 low frequency transducer meets the specific market demand for a loudspeaker which combines good linearity and efficiency with high power handling capabilities, containing a 75 mm Ø aluminum voice coil. Although primarily intended for use in tuned reflex enclosures, the versatile characteristics of the 15W750 render it suitable for a wide variety of enclosure types, particularly as a subwoofer or as a LF driver in 2 systems. When used in a 2-way system, we recommend a 1.4" or 2" exit compression driver in order to obtain the best sound quality. The deep profile curvilinear paper cone has been made using a special high strength wood pulp and designed to achieve the best possible linearity within its intended frequency range and to control bell-mode resonances around the cone circumference. The cone is carried by an unusually deep profile, triple-roll suspension formed of a linen-like material which is more resistant to aging and fatigue than the traditional cotton-based materials used in conventional surrounds. The 75 mm Ø aluminum voice coil employs the Interleaved Sandwich Voice coil (ISV) technology, in which a high strength fiberglass former carries windings on both the outer and inner surfaces to achieve a mass balanced coil. This results in an extremely linear motor assembly with a reduced tendency for eccentric behavior when driven hard. The magnetic structure has been optimized using our in-house FEA CAD resource that has maximized the flux density in the voice coil gap. Excellent heat dissipation has also been achieved by incorporating air channels between the basket and the magnetic top plate. Due to the increase in use of audio systems at outdoor events, the ability of the 15W750 to perform in adverse weather conditions or in areas of high humidity is a great advantage. This has been achieved using exclusive treatments which enable the cone and the magnetic plate to resist corrosion and render the cone water repellent at the same time.