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Firma: Player Plus doo
Adresa: Svetogorska 9
Telefon: +381 11 3347 442
Fax: +381 11 3347 615
PIB: 106966344
E-mail: porudzbine@player.rs

Eighteensound 12MB700 8 Ohm - Zvučnik

Šifra: 7026
Kategorija proizvoda: 12 Inča
Proizvođač: Eighteensound

Cena: 23.880,00 **rsd**

Eighteensound 12MB700 8 Ohm - Zvučnik

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12MB700 Very High Output MB Ferrite Driver

Key features

- 101,5 dB SPL 1W / 1m sensitivity

450 W AES power handling

Improved heat dissipation via unique basket design

Ideal for compact two way and multiway systems
- 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)

Double Demodulating Rings (DDR) for lower distortion

Weather protected cone and plates for outdoor usage

Description

The 12MB700 is a very high sensitivity (101.5 dB 1W/1m) midbass driver with high power handling capabilities. The 12MB700 can be used as either a bass/mid driver in compact 2-way reflex enclosures or as a direct radiating or horn loaded, dedicated midrange driver, in multi-way touring and fixed installation concert and arena systems.

Its curvilinear paper cone made from a special high strength wood pulp, has been 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 a multiroll suspension formed of a linen-like material, which is more resistant to aging and fatigue than traditional materials.

The 75 mm diameter state-of-the-art voice coil is similiar to those fitted to our top-of-the-range 18" and 15" models but it is wound with aluminum wire. It employs our Interleaved Sandwich Voice coil (ISV) technology in which a high strength fiberglas 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 excellent performance capabilities of this loudspeaker are further enhanced by the Double Demodulating Rings (DDR) designed to dramatically reduce the intermodulation and harmonic distortion and improve transient response.

The magnetic structure has been optimized using FEA CAD resource, maximizing the flux density in the voice coil gap.

Voice coil cooling has been achieved by incorporating airways between the chassis back plate and the top plate of the magnet, allowing heated air from the voice coil and gap to be channeled away and dissipated by the chassis basket.

Due to the increasing use of high power audio systems at outdoor events or in marine environments, the ability to perform properly under inclement weather conditions is a key feature in Eighteen Sound philosophy. Hence, an exclusive treatment has been applied to the cone giving it water repellent properties. In addition, another special treatment has been applied to the top and back plates making the transducer far more resistant to the corrosive effects of salts and oxidization.

| GENERAL SPECIFICATIONS | |
|-------------------------------|----------------|
| Nominal Diameter | 300 mm (12 in) |
| Rated Impedance | 8 Ohm |
| AES Power | 450 W |
| Program Power (1) | 600 W |
| Peak Power (2) | 1200 W |
| Sensitivity (3) | 101,5 dB |
| Frequency Range (4) | 60 ÷ 5000 Hz |
| Power Compression @-10dB (5) | 0,4 dB |
| Power Compression @-3dB | 1,5 dB |
| Power Compression @Full Power | 2,8 dB |

| | |
|-----------------------------|-------------------------------|
| Max Recomm. Frequency | 4000 Hz |
| Recomm. Enclosure Volume | 10 ÷ 80 lt. (0,3 ÷ 2,83 cuft) |
| Minimum Impedance | 5,7 Ohm at 25°C |
| Max Peak To Peak Excursion | 22 mm (0,87 in) |
| Voice Coil Diameter | 75 mm (3 in) |
| Voice Coil Winding Material | aluminum |
| Suspension | M-roll, Polycotton |
| Cone | Curvilinear, Paper |

| THIELE SMALL PARAMETERS (6) | |
|------------------------------------|-------------------------------------|
| Fs | 49 Hz |
| Re | 5 Ohm |
| Sd | 0,0531 sq.mt. (82,31 sq.in.) |
| Qms | 4,7 |
| Qes | 0,2 |
| Qts | 0,19 |
| Vas | 101 lt. (3,57 cuft) |
| Mms | 41 gr. (0,09 lb)101 lt. (3,57 cuft) |
| BL | 17,8 Tm |
| Linear Mathematical Xmax (7) | ± 4,5 mm (± 0,18 in) |
| Le (1kHz) | 0,9 mH |
| Ref. Efficiency 1W@1m (half space) | 99,6 dB |

| MOUNTING INFORMATION | |
|--------------------------------|--|
| Overall diameter | 315 mm (12,4 in) |
| N. of mounting holes | 8 |
| Mounting holes diameter | 7,15 mm (0,28 in) |
| Bolt circle diameter | 296 - 300 mm (11,65 - 11,8 in) |
| Front mount baffle cutout ø | 282 mm (11,1 in) |
| Rear mount baffle cutout ø | 282 mm (11,1 in) |
| Total depth | 147,5 mm (5,82 in) |
| Flange and gasket thickness | 16,5 mm (0,65 in) |
| Net weight | 8,0 kg (17,66 lb) |
| Shipping weight | 8,8 kg (19,43 lb) |
| CardBoard Packaging dimensions | 332 x 332 x 184 mm (13,07 x 13,07 x 7,24 in) |

FREQUENCY RESPONSE CURVE OF 12MB700 MADE ON 50 LIT. ENCLOSURE TUNED 60HZ IN FREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE