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Eighteensound 21LW1400 8ohm



Šifra: 06852
Kategorija prozivoda: 18 Inča i Veće
Proizvođač: Eighteensound

Cena: 71.880,00 rsd

Key features

99 dB SPL 1W / 1m average sensitivity
100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
1400W AES power handling
Double Silicon Spider (DSS) for improved excursion control and linearity
Double Demodulating Rings (DDR) for lower distortion
Improved heat dissipation via unique basket design
Weather protected cone and plates for outdoor usage
Suitable for ultra low frequency systems

Downloads

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Data sheet
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Drawing

21LW1400
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Description

The 21LW1400 is a 21 inch high performance extended low frequency loudspeaker. The transducer can be used as a subwoofer component, in either a reflex, band-pass or horn-loaded configuration, in high power auditorium or arena loudspeaker systems. It provides clean and undistorted LF reproduction at very high SPL and enables the speaker to withstand high power levels without damage.
The 21LW1400 design features include an exceptional displacement suspension system which, in conjunction with a carbon fiber reinforced straight-ribbed cone and the Double Silicon Spider (DSS), produces an ultra-linear piston action, providing full control across the entire working range.
The 100mm inside outside copper voice coil, based on our Interleaved Sandwich Voice-coil (ISV) technology, reaches high levels of thermal stability and durability. ISV technology is based on a high strength fiberglas former with half the coil wound on the outside and half on the inside and bonded together using unique high temperature resin adhesives. This results in a balanced linear motor unit which can exert an exceptionally high force factor.
The low distortion and unmatched sound quality of the 21LW1400 has been significantly improved by the Double Demodulating Rings (DDR) embedded in the pole piece of the magnetic structure. These have been designed to dramatically reduce the intermodulation and harmonic distortion while

improving transient response at the same time.
Excellent heat dissipation has been achieved using the special basket design which incorporates air channels between the basket and the magnetic top plate. In addition, 8 air vents incorporated into the back plate are aligned with the voice coil to force air into the lower part of the gap.
21LW1400 is ready to perform properly under inclement weather conditions. This has been achieved using of an exclusive treatment which improves pulp strength and gives water repellent properties to both sides of the cone. Moreover, a special treatment is applied to the top and back plate of the magnetic structure which is far more resistant to the corrosive effects of salts and oxidization than any other treatment in use.

GENERAL SPECIFICATIONS	
Nominal Diameter	533 mm (21 in)
Rated Impedance	8 Ohm
AES Power	1400 W
Program Power (1)	1600 W
Peak Power (2)	7000 W
Sensitivity (3)	99 dB
Frequency Range (4)	24 - 2000 Hz
Power Compression @-10dB (5)	0,6 dB
Power Compression @-3dB	1,5 dB
Power Compression @Full Power	2,2 dB
Max Recomm. Frequency	250 Hz
Recomm. Enclosure Volume	120 ÷ 500 lt. (4,24 ÷ 17,7 cuft)
Minimum Impedance	6,4 Ohm at 25°C
Max Peak To Peak Excursion	52 mm (2,05 in)
Voice Coil Diameter	100 mm (4 in)
Voice Coil Winding Material	copper
Suspension	Triple roll, Polycotton
Cone	Straight ribbed, Paper

THIELE SMALL PARAMETERS (6)	
Fs	28 Hz
Re	5 Ohm
Sd	0,1662 sq.mt. (257,6 sq.in.)
Qms	9,32
Qes	0,242
Qts	0.235
Vas	385 lt. (13,6 cuft)
Mms	296 gr. (0,65 lb)
BL	33,5 Tm
Linear Mathematical Xmax (7)	± 9,5 mm (± 0,37 in)
Le (1kHz)	2,85 mH
Ref. Efficiency 1W@1m (half space)	98,0 dB

MOUNTING INFORMATIONS

Overall diameter	545 mm (21,46 in)
N. of mounting holes	8
Mounting holes diameter	10 mm (0,39 in)
Bolt circle diameter	520 mm (20,47 in
Front mount baffle cutout ø	492 mm (19,37 in)
Rear mount baffle cutout ø	490 mm (19,29 in)
Total depth	256,3 mm (10,1 in)
Flange and gasket thickness	14 mm (0,55 in)
Net weight	19,2 kg (42,38 lb)
Shipping weight	20,6 kg (45,47 lb)
CardBoard Packaging dimensions	550 x 550 x 300 mm (21,65 x 21,65 x 11,8 in)

FREQUENCY RESPONSE CURVE OF 21LW1400 MADE ON 250 LIT. ENCLOSURE TUNED 28HZ IN FREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE

FREQUENCY RESPONSE CURVE OF 21LW1400 MADE ON 250 LIT. ENCLOSURE TUNED 28HZ IN FREE FIELD (4

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FREE AIR IMPEDANCE MAGNITUDE CURVE

FREE AIR IMPEDANCE MAGNITUDE CURVE

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