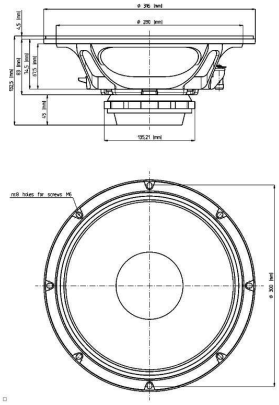
12ND730 8Ω

LF drivers - 12.0 Inches



- 98 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
- 600W program power handling
- High force neodymium magnet assembly
- Ideal for compact high loading enclosures

The 12ND730 transducer has been designed to meet market demand for high output woofers, capable of providing deep bottom-end in bandpass, horn or small reflex enclosures. The level of distortion is kept very low within its application range.
The 12ND730 is suitable for high loading enclosures, such as subwoofers or 2-way system reflex enclosures when coupled with a 1.4"-2" compression driver.
The neodymium magnet assembly developed by Eighteen Sound engineers assures high flux concentration, low power compression and excellent heat exchange since the external magnet configuration is considerably more efficient than traditional under-pole magnet topology. This results in high levels of force factor and power handling with an optimum power to weight ratio.
The deep profile curvilinear cone, made from a special high strength wood pulp has been designed to achieve the best possible linearity within its frequency range. The cone surround made from a linen-like material is highly resistant to aging and fatigue. The in-house developed cone treatment is fully water repellent and also gives a significant degree of rigidity to the cone.
The 75 mm Interleaved Sandwich Voice coil (ISV) assembly is wound on a strong fiberglas former that improves force transmission and thermal power handling.
The 4 threaded backplate holes give the user the possibility to insert an external-customised heat sink if further heat dissipation is required.
A special coating applied to both the top and back plates makes the 12ND730 far more resistant to the corrosive effects of salts and oxidization.

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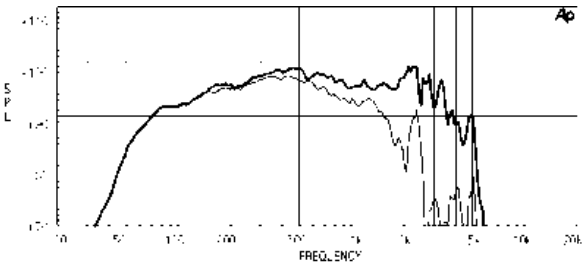

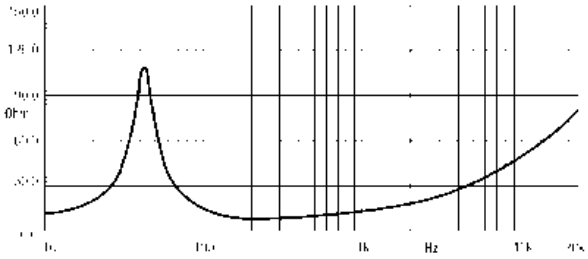

SPECIFICATIONS

Nominal Diameter	300 mm (in)
Nominal Impedance	8 Ω
Nominal Power Handling[1]	400 W
Continuous Power Handling[2]	600 W
Sensitivity[3]	98.0 dB
Frequency Range	53 - 5000 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	copper

DESIGN

Surround Shape	Double roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	60.0 dm^3 (2.12 ft^3)
Recommended Tuning	50 Hz

PARAMETERS[4]

Resonance Frequency	45 Hz
Re	5.6 Ω
Qes	0.24
Qms	5.13
Qts	0.23
Vas	90.0 dm^3 (3.18 ft^3)
Sd	531.0 cm^2 (82.31 in^2)
Xmax	6.5 mm
Mms	55.0 g
Bl	19.2 Txm
Le	1.73 mH
EBP	187 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	296 mm (11.65 in)
Baffle Cutout Diameter	282.0 mm (11.1 in)
Depth	132 mm (5.2 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Net Weight	3.8 kg (8.38 lb)
Shipping Weight	4.6 kg (lb)
Shipping Box	332 x 332 x 184 mm (13.07x13.07x7.24 in)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

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