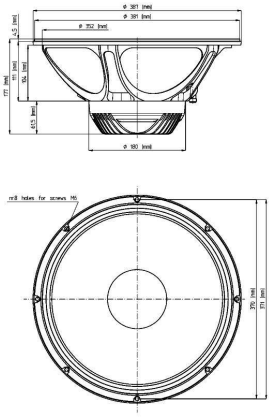
15ND930 8Ω

LF drivers - 15.0 Inches



- 98 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) edgewound voice coil
- 500W AES power handling
- Neodymium magnet assembly
- Double Demodulating Rings (DDR) for lower distortion
- Humidity resistant cone
- Ideal for two way systems and for high loading compact subwoofer applications
- External neodymium magnet assembly
- Weather protected cone and plates for outdoor usage
- Recommended for multiway systems and studio monitoring applications

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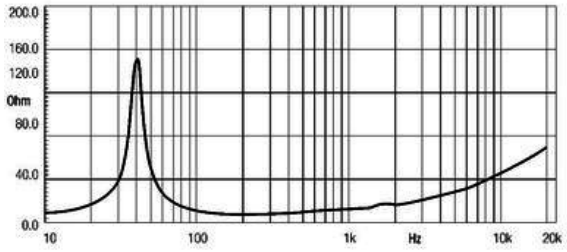
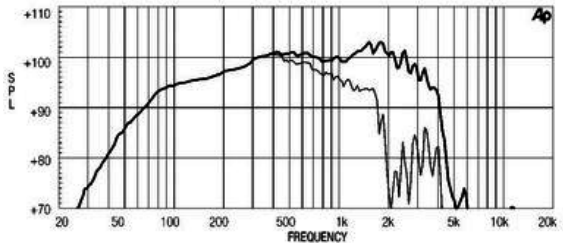
The 15ND930 is a high power, high output, extended low frequency neodymium transducer which meets the most stringent requirements in high quality professional transducers. The high level of performance and sound quality have been achieved by exploiting the most advanced technologies available today. Thanks to its versatility, the 15ND930 can be used in 2-way compact reflex enclosures with a 1.4" compression driver, in multiway systems and in high loading sub woofers as small as 70 lt (compact reflex, bandpass and horn loaded configurations). The neodymium magnet assembly 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 direct contact between the large heat sink and basket, together with the magnetic structure, represent a fundamental improvement in thermal connection and heat dissipation. Hence, power handling capabilities are increased and power compression lowered. The deep profile curvilinear cone, created 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 material is highly resistant to aging and fatigue. The in-house developed cone treatment is a humidity repellent and significantly dampens bell mode resonances. The 75mm (3in) copper edge-wound voice coil assembly is wound on a strong fiberglas former to improve force transmission and power handling. The already low distortion and sound quality are further improved by Double Demodulating Rings (DDR) that flatten impedance and phase with a constant power transfer. A special coating applied to both the top and back plates makes the 15ND930 far more resistant to the corrosive effects of salts and oxidization.





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SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	6.8 Ω
Nominal Power Handling[1]	500 W
Continuous Power Handling[2]	800 W
Sensitivity[3]	98.0 dB
Frequency Range	40 - 4100 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	copper

DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	110.0 dm^3 (3.88 ft^3)
Recommended Tuning	40 Hz

PARAMETERS[4]

Resonance Frequency	36 Hz
Re	5.5 Ω
Qes	0.23
Qms	5.3
Qts	0.22
Vas	206.0 dm^3 (ft^3)
Sd	850.0 cm^2 (131.75 in^2)
Xmax	7.5 mm
Mms	101.0 g
Bl	23.8 Txm
Le	1.61 mH
EBP	156 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	387 mm (15.24 in)
Bolt Circle Diameter	370 mm (14.57 in)
Baffle Cutout Diameter	353.0 mm (13.9 in)
Depth	177 mm (6.97 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Net Weight	4.7 kg (10.36 lb)
Shipping Weight	5.7 kg (12.57 lb)
Shipping Box	405 x 405 x 214 mm (15.94x15.94x8.43 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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