

The Horn News

News To listen To. Jan -2006

“The Horn News” is designed as a “beta” tester to find out designs people are interested in. The AH! Website is a learning website- just to learn what is behind door no. 3, in the world of acoustics relating to driver and horn design.

On just the first day of the A.A. official opening of the AH! Website, I received many requests (9 in one day!) for the 70Hz hypex horn. I will redesign and build this box in a week or so.

Note - both AH! Horns are designed to be used with virtually any theater woofer. In order to make the system visually smaller, the horns are designed to sit freestanding on top of an existing woofer box. I can supply free- and box tuning for most of the older theater woofers, or recommend a modern P.A. type woofer. It is possible to use a modern 12” woofer, like the B+C 12HPL76

http://www.bcspeakers.com/index.php?sez=1&categoria=2&id_descrizione=44&prodotto=45&id_descrizione_prod=40


This speaker with the AH! 1000 horn fits in a very small box (2 cft) and when used with the 18 Sound ND1060 driver

<http://www.eighteensound.it/ND1060.htm>

.....you have a system as good as it gets with modern drivers.

AH! will design the box, dimensioned drawings, and crossover schematic, if there is enough interest.

Or it can just be unusual queries. One person was interested in the T-S of the famed RCA SL 12 wide range loudspeaker...here it is



- High sensitivity
- Smooth frequency response 30 to 10,000 Hz
- Balanced listening characteristics
- Index (ceramic) permanent magnet
- Excellent power handling capability
- Convulinear cone plus a mechanically coupled high frequency cone

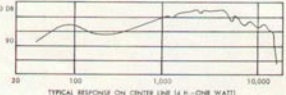
Dioplex 12-Inch Speaker, Type SL-12B

Description

The Type SL-12B is one of the finest High Fidelity speakers available for reproduction of voice or music. It easily handles 30 Watts with excellent efficiency and reproduces the audio spectrum with full clarity and fidelity even when handling sharp "bass and transients."

This speaker loudspeaker may be used with any standard 12-inch full-size but it is recommended that for quality reproduction a minimum enclosure size of 5 cubic feet be used.

The smooth frequency response is the result of the special shape which has been used for the diaphragm cone, and the special material of the cone. These two factors play important roles in giving a better picture to the speaker. A further refinement is the damping ring in the inner suspension of the cone which provides optimum acoustical impedance to effectively eliminate standing waves in the suspension and cone.

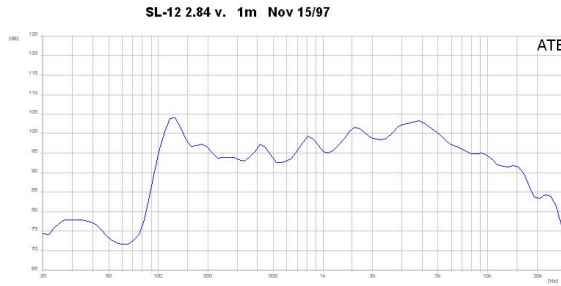
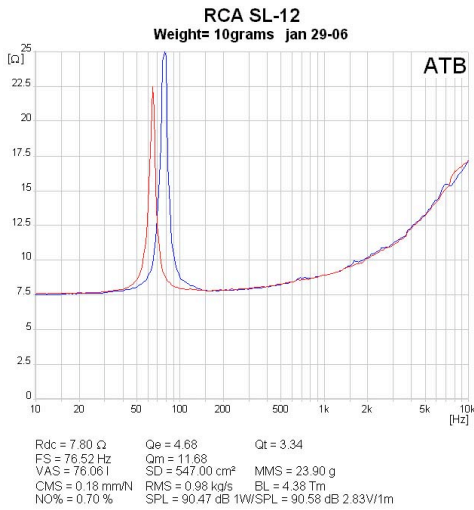
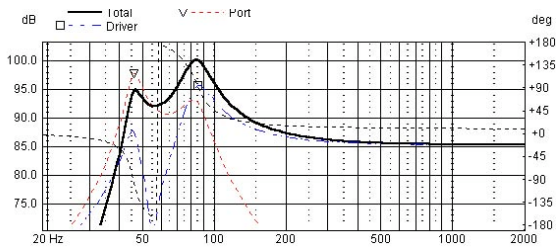


TYPICAL RESPONSE ON CENTER LINE (4 H.-OHM WATT)

Specifications

Frequency Response	30 to 10,000 Hz	Weight	8 lbs. 13.8 lbs.
Power Handling Capacity	30 Watts	Axis Sensitivity at 4 ft. 1 Watt, see curve	85 dB
Magnet Index Weight	30 ounces	Cone Resistance (Wt. rubber fl. cabinet)	60-70 Hz
Input Impedance	8 Ohms	Mounting Data (SMA)	4 equally spaced slots on an 18" bolt circle
Overall Diameter	12.7/32" (32.8 cm)	Voice Coil Diameter	1" (25.4 cm)
Depth	5.5/32" (13.1 cm)	Flux Density	11,000 gauss

Ordering Information Type SL-12B Twelve-Inch Speaker M1-30231A



above is RCA SL12- in 5 cft box

Best fit box is 300 Liters tuned to 66Hz.
Vent Area = 1000sq cm x 7cm long

Stay tuned!

The Horn News is an AH! Publication www.acoustichorn.com bill@acoustichorn.com

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