



www.hertzaudiovideo.com

HI ENERGY

HXS 300 D

1800 WƏLL

Technical Specifications

Component		Dual Coil Subwoofer
Size	mm	300 (12")
Power Handling (Watt)	peak continuous program	1800 900
Impedance	Ohm	2 + 2
Frequency response	Hz	20-250
Sensitivity	dB/SPL	100
Outer diameter	mm	316
Mounting hole diameter	mm	283
Magnet size	mm	170
Total depth	mm	170
Mounting depth	mm	149
Total driver displacement	lit	2,5
Weight of one component	kg	8,66
Voice coil diameter	mm	65
Magnet		Double magnet, High density ferrite
Cone		Water-repellent, non-pressed paper cone
Xmech*	mm	20

Electro-Acoustic Parameters

D	mm	250
Xmax	mm	10
Re	ohm	3,1
Fs	Hz	35
Le	mH@1kHz	4,50
Le	mH@10kHz	1,95
Vas	lit	32,00
Mms	gr	220,0
Cms	mm/N	0,10
BL	T-m	20,50
Qts		0,32
Qes		0,36
Qms		3,45
Spl (1m/2,83V)	dB	100

Values are given with coils in series connection

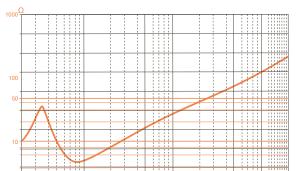
* Xmech maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.



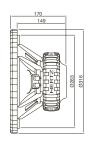
- Extreme performance, extreme power handling and extreme cosmetics.
 HXS subwoofers deliver deep, loud aggressive bass.
- High thermal dissipation and magnetic permeability plates.
- Double magnet motor.
- Superior "T" pole.
- SVC® Square Voice Coil special winding on Kapton® former for maximum compactness, lightness and thermal dissipation.
- Aeronautic derivation blues for voice coil, spider and cone.
- Xponential Vented Hole® and lowered bottom plate for long mechanical excursions.
- Water-repellent, non-pressed paper and carbon fibre injections cone.
- Venting Holes, improving dynamics and mobile voice coil cooling.
- Rubber surround for mobile voice coil long, linear excursion.
- CONEX® spider.

Impedance

- Butylic Damping Cover, it dampens basket vibrations.
- Butyl rubber protective ring for vibrations dampening.
- Aluminium alloy, anti-resonant basket, with anti-scratch paint.
- High current, gold-plated binding posts.







11/05/2005





desisn

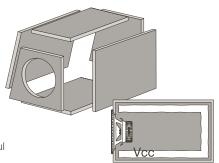
The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation.

The volumes of Reflex, Asymmetric Bandpass and Double Reflex projects include tubes and ports overall dimensions.

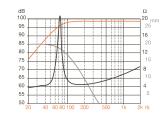
Sealed Box

Sealed Box 1: It optimises overall dimensions as much as possible, for those who have space problems.

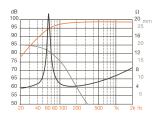
Sealed Box 2: It is the best compromise between size and performances; it insures powerful bass and good dynamics.







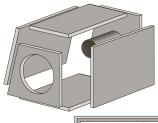




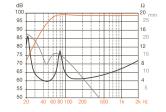
Reflex Box

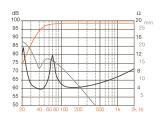
Bass Reflex 1: Its size is similar to Sealed Box 2 but it offers higher power handling and fast, wide sound.

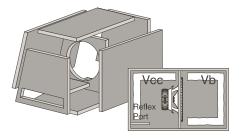
Bass Reflex 2: The best compromise between size and performances; its bass is more bursting and dynamic than the one you get with the configurations mentioned above.

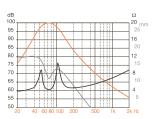












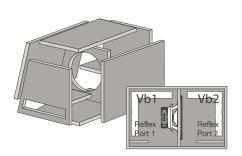
Asymmetric Bandpass Vcc= 9 Lit

Vb= 13 Lit **Fb=** 73 Hz **Reflex Port**

Sp= 112 cm² **L=** 250 mm

Asymmetric Bandpass

It combines the qualities of the two previous projects with high power handling and fast, clear bass. Suitable to any kinds of music.



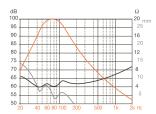
Double Reflex

Vb1 = 11 Lit Fb1 = 84 Hz Reflex Port 1 Sp = 125 cm² L = 250 mm Vb2 = 17 Lit Fb2 = 45 Hz Reflex Port 2

64 cm²

320 mm

Sp=



Double Reflex

It is more difficult to build and bigger. It is the best solution to get very high SPL values and bursting, fast sound. Perfect for techno and disco music.