HI ENERGY

Technical Specifications

Component		Subwoofer
Size	mm	200 (8")
Power Handling (Watt)	peak continuous program	600 300
Impedance	Ohm	4
Frequency response	Hz	26-400
Sensitivity	dB/SPL	91
Outer diameter	mm	217
Mounting hole diameter	mm	183
Magnet size	mm	140
Total depth	mm	134,5
Mounting depth	mm	120
Total driver displacement	lit	1,3
Weight of one component	kg	5,26
Voice coil diameter	mm	50
Magnet		Double magnet, High density ferrite
Cone		Water-repellent, non-pressed paper cone

Electro-Acoustic Parameters

18

Xmech*

D	mm	165
Xmax	mm	11
Re	ohm	3,0
Fs	Hz	51,0
Le	mH@1kHz	1,21
Le	mH@10kHz	0,52
Vas	lit	9,15
Mms	gr	67,6
Cms	mm/N	0,14
BL	T-m	9,65
Qts		0,64
Qes		0,71
Qms		6,87
Spl (1m/2,83V)	dB	91

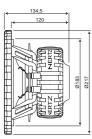
^{*} Xmech maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.



- High thermal dissipation and magnetic permeability plates.
- Double magnet motor.
- Superior "T" pole.
- Pure OFC copper double layer voice coil with Kapton® former.
- 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.
- 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.







ING 12/09/2003 page 1





desisn **HX 200**

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.

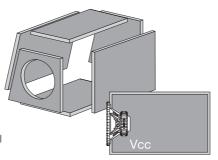
The volumes of Reflex, Asymmetric Bandpass and Double Reflex projects include tubes and ports overall dimensions.

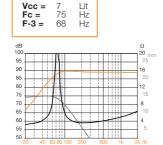
Sealed Box 1

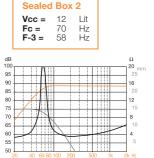
Sealed Box

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.



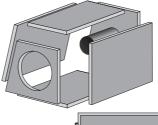




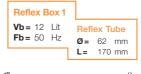
Reflex Box

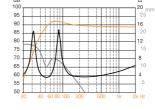
Bass Reflex 1: Its size is similar to Sealed Box 2 but it offers higher power handling and fast, wide sound. **Bass Reflex 2:** The best compromise

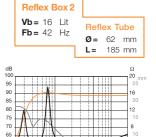
between size and performances; its bass is more bursting and dynamic than the one you get with the configurations mentioned above.

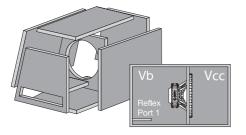


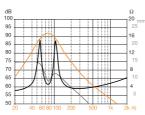












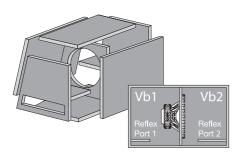
Asymmetric Bandpass Vcc= 5 Lit

Vb = 8 Lit **Fb =** 80 Hz **Reflex Port**

Sp= 28 cm² **L=** 210 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.

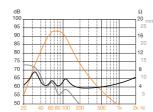


Double Reflex

Vb1 = 8 Lit **Fb1** = 90 Hz **Reflex** Port 1

Sp = 75 cm² **L** = 200 mm **Vb2** = 12 Lit

Fb2= 50 Hz **Reflex Port 2 Sp**= 30 cm² **L**= 280 mm



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.