

# SUB WOOFER

Hi Energy

## HX 250 900 Watt

### Technical Specifications

Component	Subwoofer	
Size	mm	250 (10")
Power Handling (Watt)	peak	900
	continuous program	450
Impedance	Ohm	4
Frequency response	Hz	34 - 800
Sensitivity	dB/SPL	89
Outer diameter	mm	268
Mounting hole diameter	mm	234
Magnet size	mm	190
Total depth	mm	178
Mounting depth	mm	150
Total driver displacement	l	2,0
Weight of one component	Kg	9,5
Voice coil diameter	mm	65
Magnet	Double magnet, High density flux ferrite	
Cone	Polypropylene with Mica injection	
Xmech*	mm	23

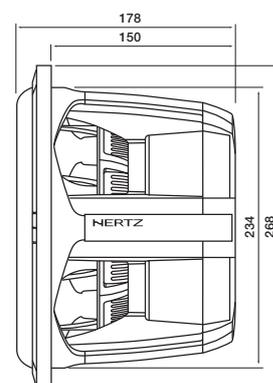
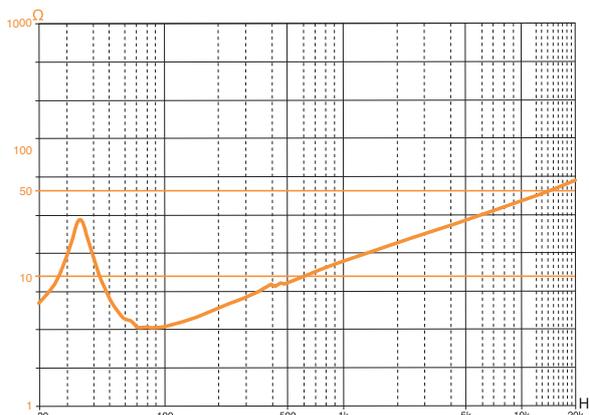
### Electro-Acoustic Parameters

D	mm	210
Xmax	mm	14
Re	Ohm	2,9
Fs	Hz	37
Le	mH@1kHz	1,79
Le	mH@10kHz	0,57
Vas	l	24,04
Mms	gr	129,3
Cms	mm/N	0,14
BL	T-m	13,16
Qts		0,44
Qes		0,49
Qms		4,70
Spl (1m/2,83V)	dB	89

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



- 1 Low incidence five spoke, anti-resonant aluminium alloy basket.
- 2 Front-Back gasket.
- 3 V-cone with Polypropylene membrane stiffened with mineral powders.
- 4 High excursion surround.
- 5 Black nomex spider.
- 6 Extended pole.
- 7 Aluminium former and high temperature pure copper voice coil.
- 8 Oversized motor with forced ventilation system.
- 9 Butyl rubber protective ring for acoustic damping.
- 10 Easy to access, oversized terminals for high-grade cable termination.



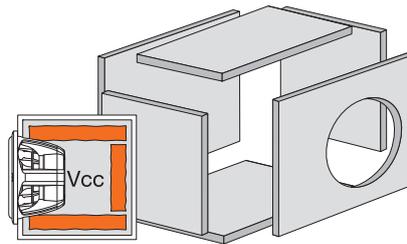
## design

### HX 250

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 projects include tubes and ports overall dimensions.

#### Sealed Box - Dimension

The box is deliberately small in order to optimize the overall dimension; this is the right solution for those who have a narrow space but not sacrificing the powerful bass.

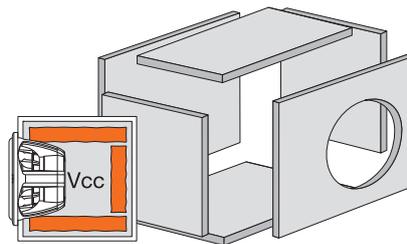


**Sealed Box**  
**Vcc** = 11,03 l  
**Fc** = 50 Hz

**Damping material:**  
 FONOFORM on all the inside walls except for the speaker's.

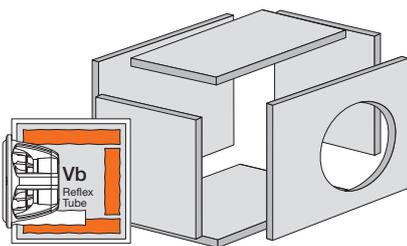
#### Sealed Box - Performance

Bigger, both in dimensions and sound, it responds with excellent dynamics that you can feel with your body.



**Sealed Box**  
**Vcc** = 16,13 l  
**Fc** = 55 Hz

**Damping material:**  
 FONOFORM on all the inside walls except for the speaker's.

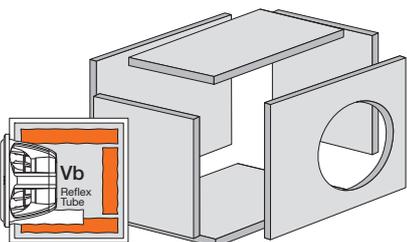


**Damping material:**  
 FONOFORM on all the inside walls except for the speaker's.

#### Reflex Box - Dimension

Almost the same dimensions as the Sealed Box Performance, yet offering a wider extension, with a strong sound and an excellent articulation.

**Reflex Box**  
**Vb** = 15,15 l  
**Fb** = 40 Hz  
**Reflex Tube**  
 $\varnothing$  = AR 70  
**L** = 240 mm



**Damping material:**  
 FONOFORM on all the inside walls except for the speaker's.

#### Reflex Box - Performance

Great power handling, high sensitivity values and great impact; loudest bass performance with all kinds of music.

**Reflex Box**  
**Vb** = 20,64 l  
**Fb** = 38 Hz  
**Reflex Tube**  
 $\varnothing$  = AR 70  
**L** = 250 mm