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# SUB HI energy WOOFER

**HX 300 1200 Watt**

## Technical Specifications

Component	Subwoofer	
Size	mm	300 (12")
Power Handling (Watt)	peak	1200
	continuous program	600
Impedance	Ohm	4
Frequency response	Hz	28 - 700
Sensitivity	dB/SPL	90
Outer diameter	mm	318
Mounting hole diameter	mm	284
Magnet size	mm	190
Total depth	mm	190
Mounting depth	mm	162
Total driver displacement	lit	2,9
Weight of one component	Kg	9,7
Voice coil diameter	mm	65
Magnet	Double magnet, High density flux ferrite	
Cone	Polypropylene with Mica injection	
Xmech*	mm	23

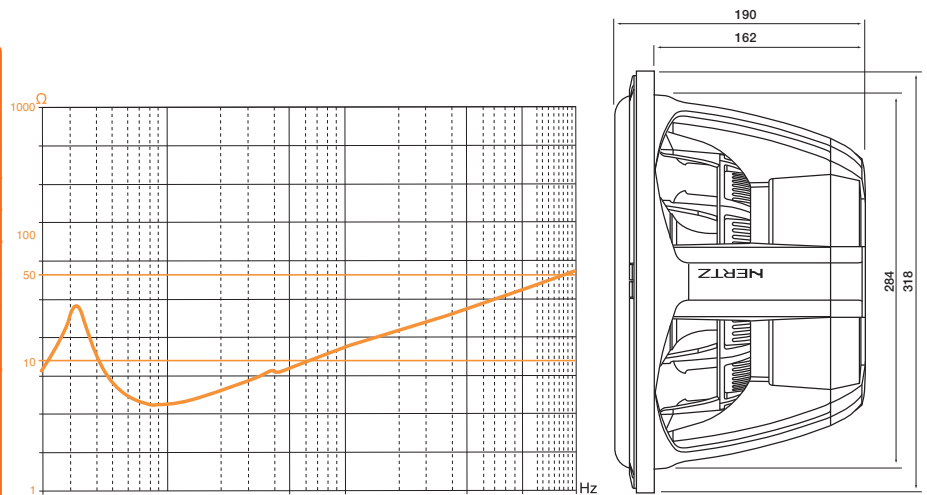
## Electro-Acoustic Parameters

D	mm	253
Xmax	mm	14
Re	Ohm	2,9
Fs	Hz	33
Le	mH@1kHz	1,83
Le	mH@10kHz	0,56
Vas	lit	49,62
Mms	gr	167,1
Cms	mm/N	0,13
BL	T-m	13,57
Qts		0,47
Qes		0,53
Qms		4,40
Spl (1m/2,83V)	dB	90

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.



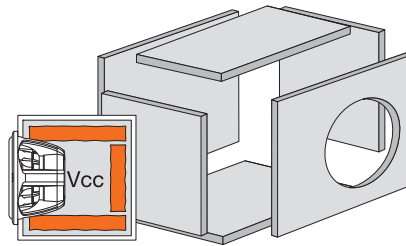
## design

### HX 300

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.

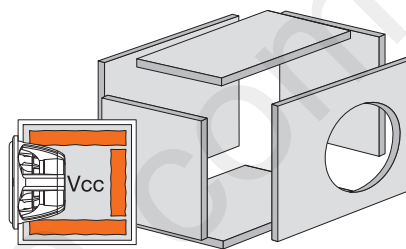


<b>Sealed Box</b>	
<b>Vcc</b> =	17,08 l
<b>Fc</b> =	57 Hz

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

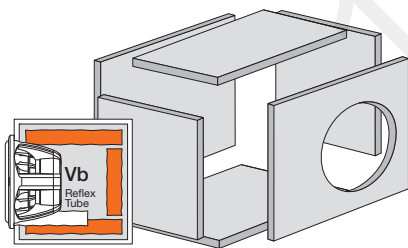
#### Sealed Box - Performance

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



<b>Sealed Box</b>	
<b>Vcc</b> =	26,30 l
<b>Fc</b> =	50 Hz

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

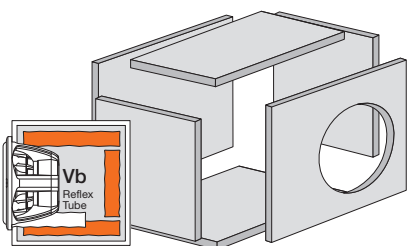


#### Reflex Box - Dimension

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

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

<b>Reflex Box</b>	
<b>Vb</b> =	21,95 l
<b>Fb</b> =	44 Hz
<b>Reflex Tube</b>	
<b>Ø</b> =	AR 70
<b>L</b> =	210 mm



#### Reflex Box - Performance

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

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

<b>Reflex Box</b>	
<b>Vb</b> =	34,88 l
<b>Fb</b> =	40 Hz
<b>Reflex Tube</b>	
<b>Ø</b> =	AR 80V
<b>L</b> =	220 mm