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### HI ENECGY

 $HH 380 \square$ 

1400 Watt

#### **Technical Specifications**

Component		Subwoofer
Size	mm	380 (15")
Power Handling (Watt)	peak continuous program	1400 700
Impedance	Ohm	4+4
Frequency response	Hz	18-200
Sensitivity	dB/SPL	98
Outer diameter	mm	395
Mounting hole diameter	mm	353
Magnet size	mm	170
Total depth	mm	195
Mounting depth	mm	173
Total driver displacement	lit	3
Weight of one component	kg	9,48
Voice coil diameter	mm	65
Magnet		Double magnet, High density ferrite
Cone		Water-repellent, non-pressed paper cone
Xmech*	mm	20



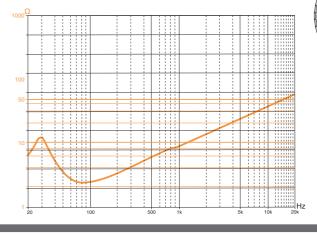
D	mm	310
Xmax	mm	10
Re	ohm	3,0
Fs	Hz	28,0
Le	mH@1kHz	1,38
Le	mH@10kHz	0,56
Vas	lit	106
Mms	gr	242,4
Cms	mm/N	0,13
BL	T-m	12,59
Qts		0,35
Qes		0,40
Qms		2,67
Spl (1m/2,83V)	dB	98

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

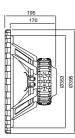


- · High thermal dissipation and magnetic permeability plates.
- Double magnet motor.
- Superior "T" pole.
- Pure OFC copper double layer voice coil with Kapton® former.
- Xponential Vented Hole® and lowered bottom plate for long mechanical excursions
- Water-repellent, non-pressed paper and carbon fibre 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.

#### Impedance







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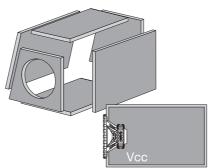
The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation. The volumes of Reflex, Asymmetric Bandpass and Double Reflex projects include tubes and ports overall dimensions.

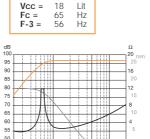
Sealed Box 1

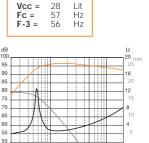
#### **Sealed Box**

**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.





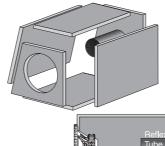


Sealed Box 2

#### **Reflex Box**

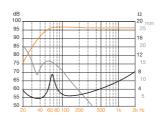
Bass Reflex 1: Its size is similar to Sealed Box 2 but it offers higher power handling and fast, wide sound.

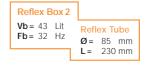
Bass Reflex 2: The best compromise between size and performances; its bass is more bursting and dynamic than the one you get with the configurations mentioned above.

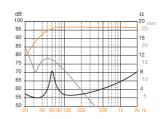


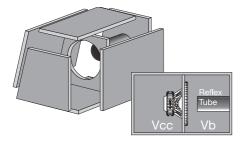


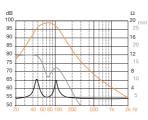












#### Asymmetric Bandpass Vcc = 19 Lit

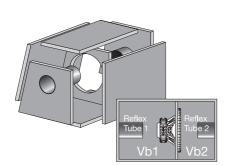
**Vb** = 24,5 Lit **Fb** = 70 Hz

## Reflex Tube Ø = 100 mm x 2

Ø = 100 mm x 2 L = 200 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.

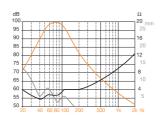


# Double Reflex Vb1 = 25 Lit Fb1 = 81 Hz

**Reflex Tube1 Ø** = 85 mm x 2 **L** = 90 mm

**Vb2** = 29 Lit **Fb2** = 40 Hz Reflex Tube 2

**Reflex Tube 2 Ø** = 100 mm **L** = 300 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.