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## ener6y

# es 380

### aoo watt

### **Technical Specifications**

Component		Subwoofer
Size	mm	380 (15")
Power Handling (Watt)	peak continuous program	900 450
Impedance	Ohm	4
Frequency response	Hz	20-200
Sensitivity	dB/SPL	95
Outer diameter	mm	391
Mounting hole diameter	mm	348
Magnet size	mm	140
Total depth	mm	194
Mounting depth	mm	175
Total driver displacement	lit	2,3
Weight of one component	kg	5,86
Voice coil diameter	mm	60
Magnet		Double magnet, High density ferrite
Cone		Water-repellent, pressed paper cone
Xmech*	mm	14,5

### Electro-Acoustic Parameters

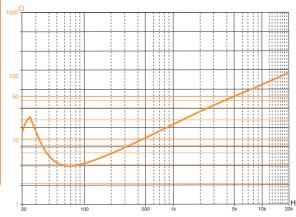
D	mm	325
Xmax	mm	9
Re	ohm	2,9
Fs	Hz	24,2
Le	mH@1kHz	2,63
Le	mH@10kHz	1,14
Vas	lit	183,00
Mms	gr	240,4
Cms	mm/N	0,18
BL	T-m	13,28
Qts		0,52
Qes		0,60
Qms		3,93
Spl (1m/2,83V)	dB	95

<sup>\*</sup> Xmech massima escursione meccanica: indica il range di movimento in zona di funzionamento lineare dell'altoparlante, in entrambi i sensi

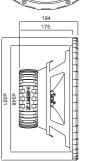


- High thermal dissipation and magnetic permeability plates.
- Big, high power double magnet.
- Pure copper voice coil, wound on Kapton former.
- Back vented hole.
- Butyl rubber gasket for mounting surfaces coupling.
- Butyl rubber protective ring.
- Internally reinforced basket, protected from abrasions by high resistance paint.
- High current, gold-plated terminals.
- Basket and motor are coupled and damped through special epoxy glue.
- Wide-wave, resin-bonded fibre spider.
- High density rubber surround, for mobile voice coil linear, long excursion.
- Water-repellent pressed paper cone.

### Impedance







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## design es 380

**Sealed Box** 

good dynamics.

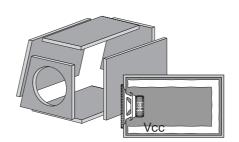
It is the best compromise

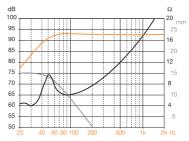
between size and performances;

it insures powerful bass and

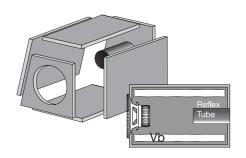
The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation.

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





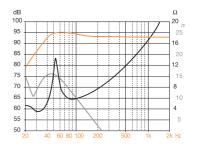
**Sealed Box** Vcc = 40 Fc = F-3 = 50 42 Hz



### **Reflex Box**

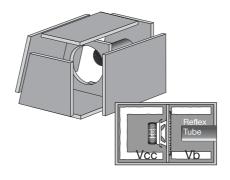
Bigger than Sealed Box, it permits to have better power handling and fast, wide sound.

**Reflex Box Vb** = 60 Lit **Fb** = 25 Hz Reflex Tube Ø= 82 mm **L=** 290 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.

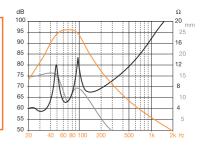


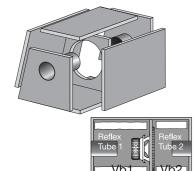
### **Asymmetric Bandpass**

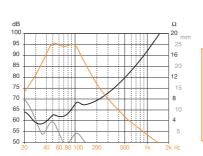
Vcc= 25 Lit

Vb= 35 Lit 65 Hz Fb=

Ø = 2 x 82 mm 145 mm







#### **Double Reflex Vb1** = 25 Lit **Vb2** = 50 Lit **Fb1** = 75 Hz Fb2 = 36 Hz

Reflex Tube 1

Reflex Tube 2  $\emptyset = 2 \times 100 \, \text{mm} \, \emptyset =$ 100 mm 160 mm L= 215 mm

### **Double Reflex**

It is more difficult to build and bigger. Perfect for techno and disco music.