

USER MANUAL  
SLIMER 12  
12-INCH DOUBLE VOICE COIL



CAOS<sup>®</sup>

UNLIMITED

[www.caosunlimited.com](http://www.caosunlimited.com)

1  
Year Warranty

CE



# PRODUCT INFORMATIONS

## GENERAL SPECIFICATIONS

Nominal Diameter: 12 inches  
Rated Impedance: 2\*4 ohms  
Operating Bandwidth: 25HZ-- 800HZ  
Power Handling Capacity: 2000 W(Max)  
Sensitivity :98 dB  
Voice Coil Diameter: 2.5 inches

## PHYSICAL INFORMATIONS

Basket: Aluminium  
Magnet Type: 60 OZ  
Cone Material: PP  
Surround: Foam  
Dust Cap: PP  
Damper: Cloth  
Packing Quantity: 1

## THIELE-SMALL PARAMETERS

Resonance Frequency Fs: 37.48 HZ  
DC Resistance Re: 3.4 + 3.4 ohm  
Mechanical Q Factor Qms: 3,1283  
Electrical Q Factor Qes: 0,7611  
Total Q Factor Qts: 0,6122  
Equivalent Cas air load Vas: 36.3036 L

It is difficult to give exact box dimensions that are universal for all cars and trucks. It is for this reason that you must be able to calculate the space in which you have available in order to achieve the proper air volume required.

It is recommended to build your enclosure from 3/4" thick MDF (medium density fiberboard).  
Make sure the enclosure is sealed air tight.

## CALCULATING EXTERNAL VOLUME

1)To calculate box volume, measure the outside Width x Height x Depth of the enclosure.  
Example 13" x 15" x 10" = 1950"

2)next you must convert cubic inches into cubic feet. To do this, you must divide the cubic inch total by 1728".  
Example 1950 : 1728 = 1.128 Cubic feet

## CALCULATING INTERNAL VOLUME

1)To calculate the internal (net) volume of the above box you must first multiply the thickness of the wood you are using by Two (2).  
Example 3/4" x 2" = 1.5"

2)Next Subtract 1.5 from each of the outside measurements of the box.  
Width 13 - 1.5 = 11.5  
Height 15 - 1.5 = 13.5  
Depth 10 - 1.5 = 8.5

3)Multiply the new totals (H x W x D)  
Example 11.5 x 13.5 x 8.5 = 1319.625

4)Next you must convert cubic inches into cubic feet. To do this, you must divide the cubic inch total by 1728"  
Example 1319.625 : 1728 = 0.7637 Cubic feet

