

CL12D
12-inch Dual Voice Coil Subwoofer

03.2012



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User's Manual



CL12D
12-inch Dual Voice Coil Subwoofer

Product Specifications

Speaker Impedance	table	2ohms	8 ohms
Free Air Resonance	(Fs)	31	31
Total Q Driver @ FS including all resistance's	(Qts)	0.464	0.456
Q of the Driver @ FS including non electrical resistance only	(Qms)	6.003	5.775
Q of the Driver @ FS including electrical resistance only	(Qes)	0.503	0.495
The Driver's compliance expressed as an equivalent	(Vas)	1.918	2.105
Volume of all (cubic Ft.)			
The Driver's linear displacement (inches)	(Xmax)	0.315	0.315
The DC resistance of the driver's twin voice coils(ohms)	(Re)	1.8	7.2
Thermal Power rating of Driver (R.M.S./Peak)	(Pe)	1000W/2000W	1000W/2000W
The Driver's sensitivity (dB)	(Sens)	96	96

Calculating Enclosures

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 12" x 14" x 9" = 1512"

2) Next you must convert cubic inches into cubic feet. To do this, You must divide the cubic inch total by 1728". Example 1512 ÷ 1728= .875 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"

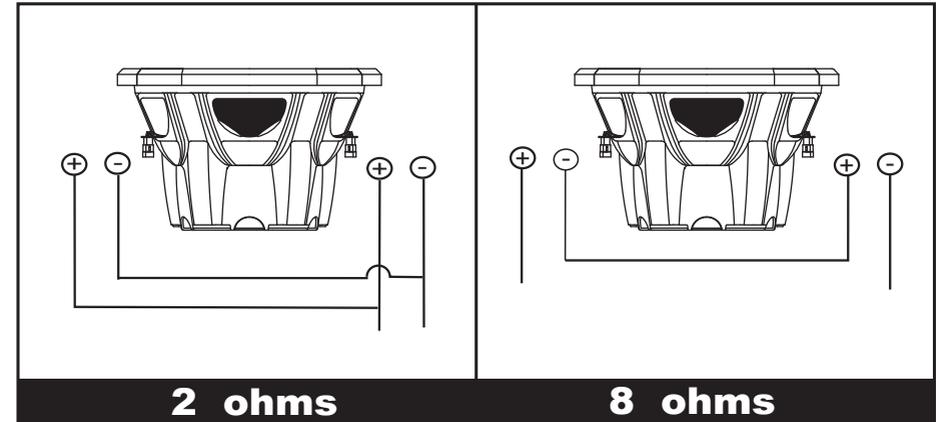
2) Next Subtract 1.5 from each of the outside measurements of the box. Width 12-1.5=10.5 Height 14-1.5=12.5 Depth 9-1.5=7.5

3) Multiply the new totals (H x W x D) Example : 10.5 x 12.5 x 7.5=984.375

4) Next you must convert cubic inches into cubic feet.To do this,you must divide the cubic inch total by 1728" Example 984.375 ÷ 1728=. 5696 Cubic feet

Wiring

Please take every precaution to wire your DVC woofers for the correct impedance



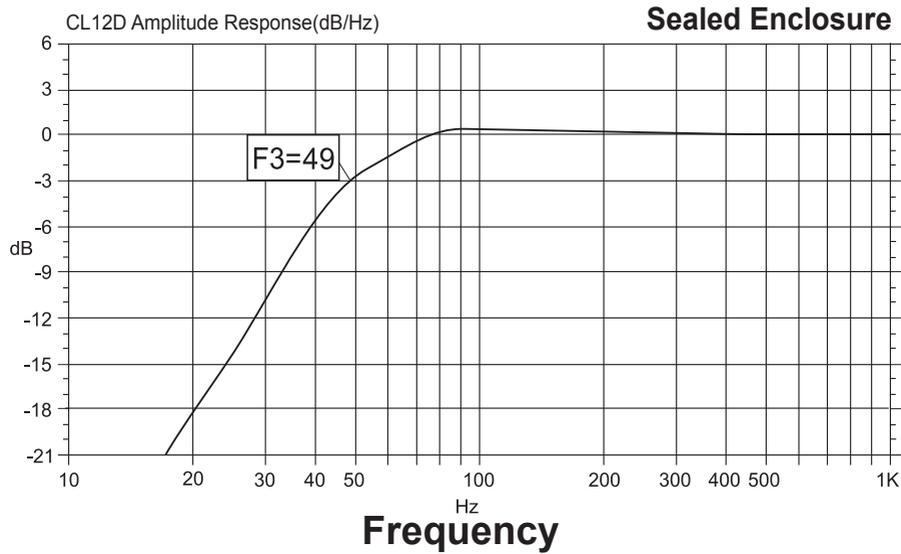
12" (305mm) Subwoofer

(1000 Watts RMS Sealed Enclosure)

- 12" (305mm) CUSTOM TOOLED HIGH EFFICIENCY POLY INJECTION CONE BUTYL RUBBER SURROUND
- DUAL 2-1/2" (64mm) HIGH TEMPERATURE KAPTON VOICE COIL
- 2000 WATTS PEAK/1000 WATTS RMS
- FREQUENCY RESPONSE: 25 Hz-2 KHz
- SENSITIVITY: 96dB (1 WATT/1 METER)
- IMPEDANCE: DUAL 4 OHMS
- MOUNTING DEPTH: 6-9/16" (167mm)
- MOUNTING DIAMETER: 11-3/16" (284mm)

Recommended Enclosures

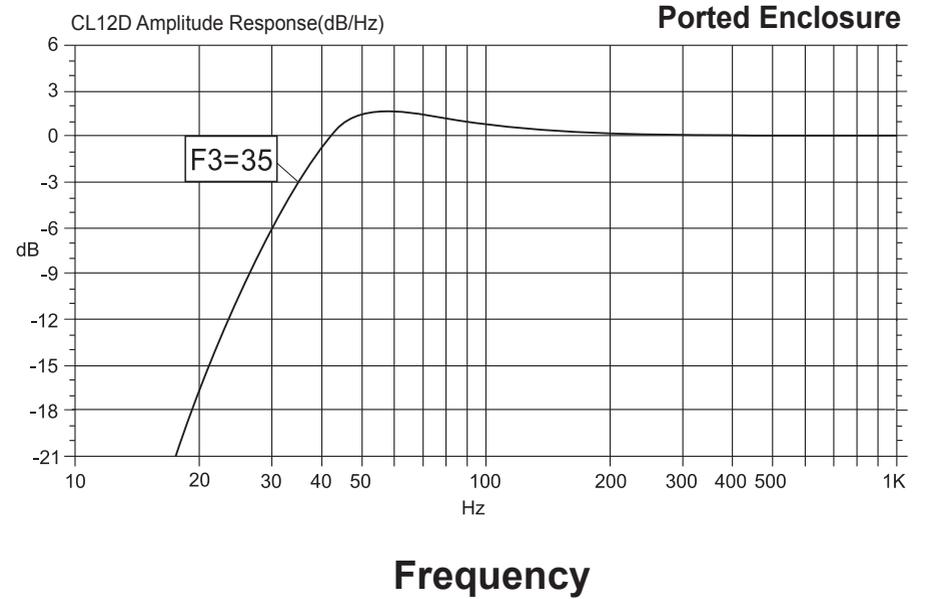
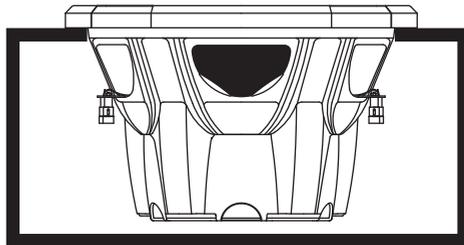
Please note : Our recommended box volumes are given for internal air requirements.



Sealed Enclosure

Box Volume :
0.6 Cu Ft to 2.0 Cu Ft

Box is given as internal air volume including driver displacement



Ported Enclosure

Box Volume :
1.4 Cu Ft to 2.0 Cu Ft

Box is given as internal air volume including driver displacement

Port Frequency : 40 to 35 Hz
Port Diameter : 4 Inches
Port Length : 14 to 10 Inches

