USER'S MANUAL

Planet Audio®

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ACR124D
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ACR124D

12" Dual Voice Coil Subwoofer
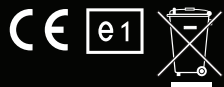
Recommended Enclosures

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

ACR124D Amplitude Response(dB/Hz)

Sealed Enclosure

F3=34

dB

Hz

Frequency

ACR124D Amplitude Response(dB/Hz)

Ported Enclosure

F3=32

dB

Hz

Frequency

Ported Enclosure

Box Volume : 1.8 Cu Ft
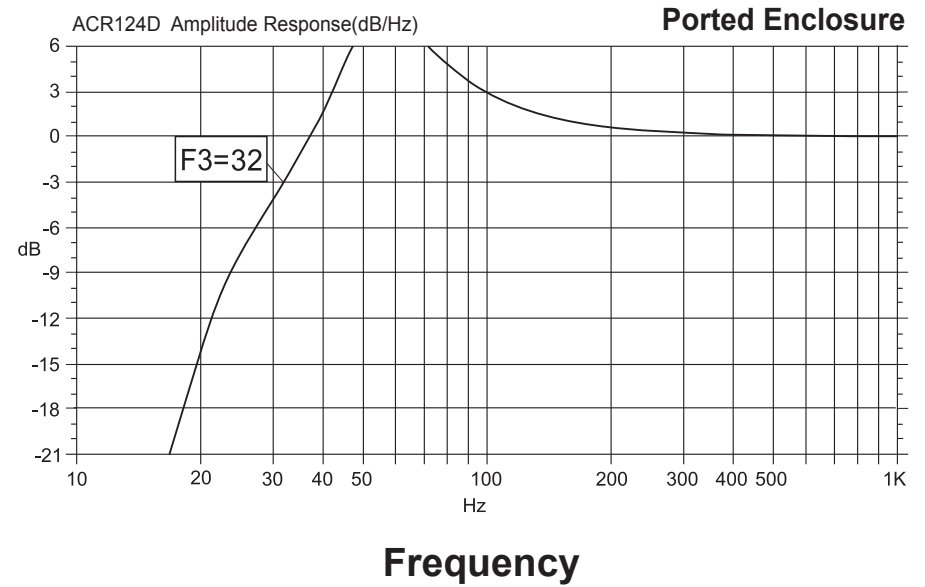
Box is given as internal air volume including driver displacement
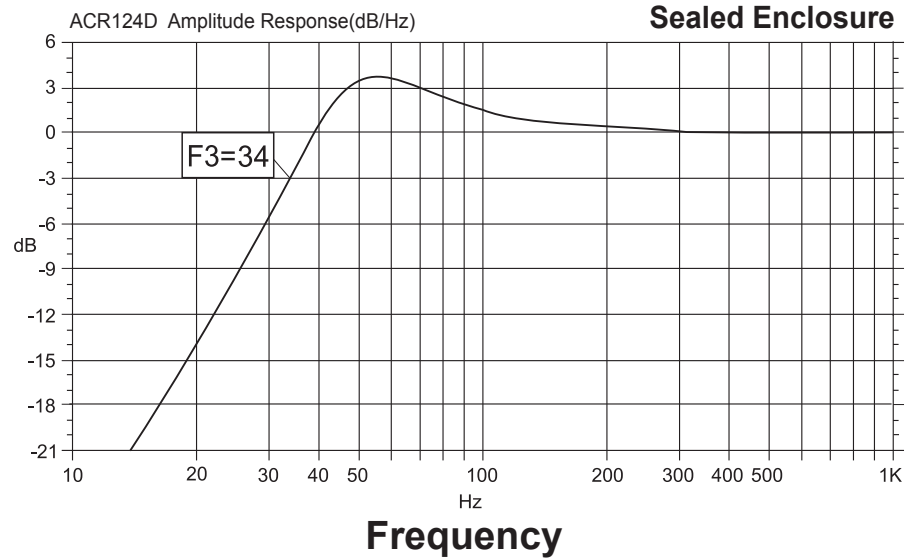
Sealed Enclosure (RECOMMENDED)

Box Volume : 1.5 Cu Ft
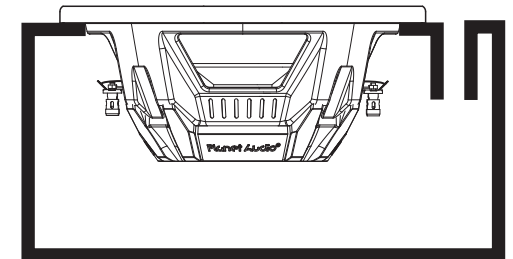
Box is given as internal air volume including driver displacement

Port Frequency	:	39	Hz
Port Diameter	:	4	Inches
Port Length	:	9	Inches

Product Specifications

Speaker Impedance

table	2 ohms	8 ohms
Free Air Resonance **(Fs)**	31	31
Total Q Driver @ FS including all resistance's **(Qts)**	0.918	0.945
Q of the Driver @ FS including non electrical resistance only **(Qms)**	6.04	6.397
Q of the Driver @ FS including electrical resistance only **(Qes)**	1.082	1.109
The Driver's compliance expressed as an equivalent Volume of all (cubic Ft.) **(Vas)**	2.132	2.099
The Driver's linear displacement (inches) **(Xmax)**	0.356	0.356
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)**	1100W/2200W	1100W/2200W
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

2 ohms   8 ohms
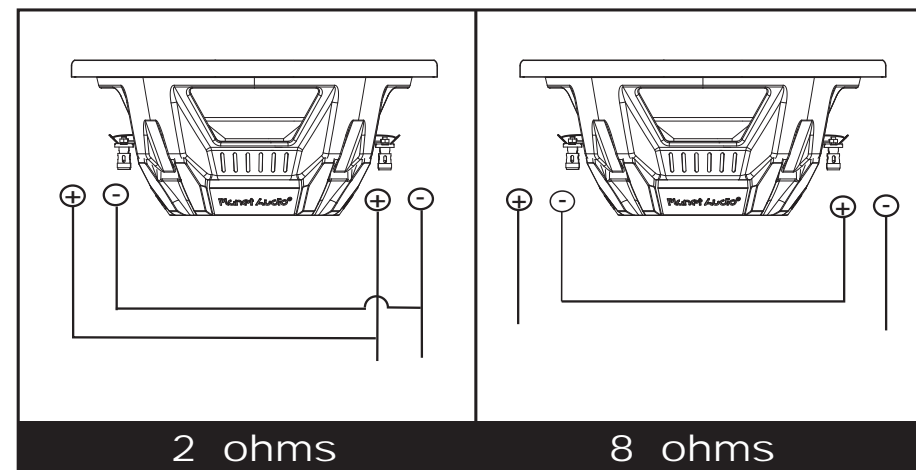
12" (305mm) Subwoofer
(1100 Watts RMS Sealed Enclosure)

- 12" (305mm) Dual Voice Coil Subwoofer
- 2200 Watts Peak Power/1100 Watts RMS
- Frequency Response: 28Hz-2.5kHz
- Sensitivity: 96 dB (1 Watt/1 Meter)
- Impedance: Dual 4 OHMS
- Cone Material: Color Chrome Treated Poly Injection
- Butyl Rubber Surround
- Dual 2" (51mm) High Temperature KAPTON Voice Coil
- Mounting Depth: 5-1/8" (130mm)