

---

Subject: ideal enclosure volume for alpha 10  
Posted by [gary b](#) on Wed, 08 Sep 2004 16:33:29 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

there are 3 different enclosure designs for the alpha 10 speaker. (2pi, 2pi tower and 8pi).In the info section of this website, it says that a woofer has an ideal enclosure volume. what is the ideal enclosure volume for the alpha 10 and why are there three different enclosure designs for it?Also, how do I find get a value for Qd for the  $V_e = V_{ad}/Q_d$  equation?thanks!

---

Subject: Re: ideal enclosure volume for alpha 10  
Posted by [Wayne Parham](#) on Wed, 08 Sep 2004 18:14:04 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

The Alpha 10 speaker works well in bass reflex cabinets ranging from approximately 1.0ft<sup>3</sup> to 5.5ft<sup>3</sup> tuned to 40Hz. It also works well in sealed cabinets of approximately the same size, and in horns of various shapes and back chamber volumes.PiAlign suggests 1.4ft<sup>3</sup> tuned to 37.5Hz, which is at the small end of the possible bass-reflex alignments. For the electro-mechanical parameters, you can substitute  $1/Q_{ts} = Q_d$ .