
Subject: ideal enclosure volume for alpha 10
Posted by [gary b](#) on Wed, 08 Sep 2004 16:33:29 GMT
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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
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The Alpha 10 speaker works well in bass reflex cabinets ranging from approximately 1.0ft³ to 5.5ft³ 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 1.4ft³ tuned to 37.5Hz, which is at the small end of the possible bass-reflex alignments. For the electro-mechanical parameters, you can substitute $1/Q_{ts} = Q_d$.