
Subject: tuning the Alpha 10"

Posted by [Black](#) on Tue, 16 Aug 2005 13:55:27 GMT

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i would like to tune a 4 cu ft box for the alpha 10" to 35 Hz, can anyone tell me the L & W of the port, i would prefer a rectangle port. i can't do the Calculation thankszeno

Subject: Re: tuning the Alpha 10"

Posted by [Wayne Parham](#) on Tue, 16 Aug 2005 14:56:03 GMT

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You can use a 4" diameter, 3½" long. There's a formula and simple program to calculate the Helmholtz frequency in the post called "Two Pi with off-sized speaker box."

Subject: Re: tuning the Alpha 10"

Posted by [Black](#) on Tue, 16 Aug 2005 15:07:12 GMT

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hi wayne, i intend to use the alpha 10" with a oris horn (coral beta 6 fullrange driver) do you have any suggestion on how to cross them?zeno

Subject: Re: tuning the Alpha 10"

Posted by [Wayne Parham](#) on Tue, 16 Aug 2005 15:32:09 GMT

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If I remember, the Oris horn can be used down to around 250Hz. If you crossover there, wavelegth is about 4½ feet long. I'd probably use a simple first-order filter, just a 6.0mH coil in series with the woofer. You can expect summing to be good if the woofer is placed directly underneath the Oris horn.

Subject: that seem easy

Posted by [Black](#) on Tue, 16 Aug 2005 15:33:26 GMT

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thanks wayne

Subject: 4 cu ft @ 35Hz. Isn't that a 2PI Tower? (nt)
Posted by [GarMan](#) on Tue, 16 Aug 2005 19:28:04 GMT
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Subject: Pretty close
Posted by [Wayne Parham](#) on Tue, 16 Aug 2005 20:11:19 GMT
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Subject: Re: tuning the Alpha 10"
Posted by [GarMan](#) on Wed, 17 Aug 2005 12:33:30 GMT
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Zeno, can I ask why you've elected to use the Alpha10? It is because you already have one lying around?

Subject: Re: tuning the Alpha 10"
Posted by [Black](#) on Wed, 17 Aug 2005 16:31:50 GMT
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thatis one of the reason, i can try any other but i am using a 2A3 amp

Subject: Re: tuning the Alpha 10"
Posted by [GarMan](#) on Wed, 17 Aug 2005 16:51:04 GMT
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I was going to suggest the Delta12LF that's used in the Theatre-3 and use that alignment. I found it to have tighter bass than the Alpha10 and allows for a smaller cabinet. However, the Alpha-10 is a much better choice if you're using a set of 2A3 amps. The "looseness" I found with the Alpha-10, when compared with the Delta12LF, may actually work in your favour when used with such a low-powered amp. A set of Wayne's corner horns would work well in your case too. However, already having the driver in hand is a pretty good reason. Gar.
