
Subject: Question for FredT re: One-Pi Towers
Posted by [GarMan](#) on Wed, 12 Jul 2006 19:50:37 GMT
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Fred, 1.5 cu ft with 4"d x 4"l port. That would make it an EBS alignment right? Have you experienced power handling issues with the Alpha8 yet with this alignment? How about loose or flabby bass?thx,Gar.

Subject: Re: Question for FredT re: One-Pi Towers
Posted by [FredT](#) on Fri, 14 Jul 2006 00:11:11 GMT
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I just re-measured the port, and it's a bit shy of 4"ID by 4-1/2" long. According to WinISD this gives you a 53 to 54hz tuning freq in a 1.5 cu ft enclosure. I had started with a 2 cu ft, then reduced it to a 1.8 and then to a 1.5 to get the best possible bass extension without the hump that accompanies a too-large enclosure. I have since experimented with wood blocks inserted in the enclosure to yield a smaller volume and decided 1.3 cu ft might be just a bit better, so I'm building another pair from scratch with that volume. This pair will have a 3" X 2-1/2" long port (using a 3" port instead of a 4" is for cosmetic purposes - with the 4" you can see the stuffing inside the speaker, and the 3" is plenty large for this application). I'll be using baltic birch veneer plywood for this one because my supplier had some nice looking 3/4" eleven ply for \$31/sheet. I asked Wayne about the enclosure volume and port size when I ordered the new One Pi kits, and he agreed the 1.3 ft enclosure with a 3" X 2.5D" port would be a good combination. Did I mention the enclosure volume is determined by where you put a false bottom within the enclosure. The actual outside dimensions are 9.5" wide (the narrowest width that will accommodate the Alpha 8 driver, 11.5" deep (the greatest width that will enable me to get four panels from a 48" wide sheet of mdf or plywood), and 36" tall (the height that places the tweeter just above ear level). These dimensions enable me to make two enclosures, including top, bottom, and three braces per enclosure, from one 4X8 sheet. Regarding the power handling, I've found they will play very loud without overexcursion, even with classical organ music. The bass isn't quite as tight as I would like, but I wouldn't describe it as loose.

Subject: Correction
Posted by [FredT](#) on Fri, 14 Jul 2006 08:25:34 GMT
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I incorrectly stated the outside depth is 11.5". That's the width of the side panels, making the inside depth 11.5" and the outside depth 12.75".

Subject: Re: Question for FredT re: One-Pi Towers
Posted by [GarMan](#) on Fri, 14 Jul 2006 12:29:46 GMT
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Thanks for the detail Fred. I was considering rebuilding my One-Pi and thought of going with a larger volume. I like the curve that models out with 1 cu ft box and will probably stay with that size. What difference did you hear, going from 2 to 1.8 to 1.5 and finally to 1.3 cu ft? Gar.

Subject: Re: Question for FredT re: One-Pi Towers
Posted by [j.luis cruz](#) . on Fri, 14 Jul 2006 14:59:12 GMT
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Hy Fred . the \$ 31 / sheet of baltic birch is 4 x 8 and where do you buy them . does them sell in the San Antonio area or only Houston m. thanks

Subject: Re: Question for FredT re: One-Pi Towers
Posted by [FredT](#) on Fri, 14 Jul 2006 19:15:28 GMT
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My plywood @ MDF source is Houston Hardwoods. They're located only in Houston.
Houston Hardwoods

Subject: Re: Question for FredT re: One-Pi Towers
Posted by [FredT](#) on Fri, 14 Jul 2006 19:18:21 GMT
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The subjective bass impact is stronger with the larger volumes, but it's also more boomy.

Subject: Hey, Wayne
Posted by [FredT](#) on Fri, 14 Jul 2006 19:20:09 GMT
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Hey, Wayne, will you jump in here and give us some expert advice on enclosure volumes and

tuning for the Eminence Alpha 8.

Subject: Also

Posted by [FredT](#) on Fri, 14 Jul 2006 19:26:52 GMT

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Take a look at their John Boos kitchen products. Their 1-1/2" cutting boards would make excellent amp stands. 18X12 is \$50, 24X18 is \$83. Stick a set of gold Parts Express cones under one and you would have a nice looking amp stand.

John Boos Cutting Boards

Subject: Re: Also

Posted by [j.luis cruz .](#) on Fri, 14 Jul 2006 23:45:02 GMT

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thanks a lot Fred.

Subject: Re: Hey, Wayne

Posted by [Wayne Parham](#) on Sat, 15 Jul 2006 22:41:50 GMT

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I recommend cabinets between 0.75ft³ and 1.5ft³ tuned to 50-60Hz for the Alpha 8. A box up to 2.0ft³ can be used with an EBS alignment.

Subject: Re: Hey, Wayne

Posted by [FredT](#) on Sun, 16 Jul 2006 00:25:50 GMT

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Thanks. That's quite a range of box volumes and tuning frequencies to play with. One thing I've learned is that it's easier to make an overly large box smaller than it is to stretch one to make it bigger:)Wouldn't it be fun next May to have several Studio One Pi tower volume and tuning variations available for a side-by-side comparison with each other and with the standard Studio One Pi enclosure. I'll volunteer to bring the 1.3 cu ft version.

Subject: Re: Hey, Wayne
Posted by [Wayne Parham](#) on Sun, 16 Jul 2006 03:51:27 GMT
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That's a great idea. I'll bring the 1.0ft3 model.

Subject: One Cubic Feet?
Posted by [GarMan](#) on Mon, 17 Jul 2006 13:51:59 GMT
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1 cu ft? I thought the standard one-pi was 0.70 cu ft. How did you end up with an oversized PI?

Subject: Re: One Cubic Feet?
Posted by [Wayne Parham](#) on Mon, 17 Jul 2006 17:42:10 GMT
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Yes, it's one cubic foot. The cabinet dimensions are 18.5" x 12.5" x 8.5". It's been that way for time, since way before the current version Alpha 8 has been around. Fortunately, Eminence has
