Subject: New array - some questions
Posted by Bob Fawcett on Fri, 15 Oct 2004 12:21:26 GMT
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I plan to build an array with some PE buyouts. I will be useing teh 269-568 4" pioneer and the 269-782 3/8" onkyo.I plan to on 20 4" and 30 3/8" per cab. The cabinets will be about 7' tall with about a 9" wide front baffle. Both lines will have some power tapering. The cabinet will probably be sealed.What cabinet volume would be appropriate, or how can I calculate it?I am looking at 3/3/6/8 arrangement for the 4" and 5/5/6/6/8 for the 3/8". Is this proper tapering?Would a ported cabinet work better?Any other comments.Thanks

Subject: Re: New array - some questions
Posted by Bill Wassilak on Fri, 15 Oct 2004 14:58:32 GMT
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I'm building the same thing your making the only difference is I'm using 24 of tweeters aside.>>What cabinet volume would be appropriate, or how can I calculate it? Follow the link and put in the parameters of the driver in the database maintenance and run the program.>>I am looking at 3/3/6/8 arrangement for the 4" and 5/5/6/6/8 for the 3/8". Is this proper tapering? Yes and you will need to do it, I have to do this on my tweeter array for sure, I discovered that when I was testing the array.>>Would a ported cabinet work better? Somewhat depends on where your x-over point to the sub is, but your still not going to get much below 100Hz. And with the somewhat hi Qts of the drivers it'll require a larger cabinet.HTHBill W.

Subject: Re: New array - some questions
Posted by Bill Wassilak on Fri, 15 Oct 2004 15:02:21 GMT
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Dang it Link didn't take in last reply. Any way the address for Win Isd program is www.linearteam.org

Subject: Re: New array - some questions
Posted by Wayne Parham on Fri, 15 Oct 2004 18:52:20 GMT
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Hi Bill,Be sure to include "http://" in the address when using the "Optional Link URL" field. Otherwise, the system doesn't display it.Wayne

Subject: Re: New array - some questions
Posted by Bob Fawcett on Fri, 15 Oct 2004 19:10:51 GMT
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>I'm building the same thing your making the only difference is I'm using 24 of tweeters aside. Is 30 overkill?What tapering did you decide on?>Somewhat depends on where your x-over point to the sub is, but your still not going to get much below 100Hz. And with the somewhat hi Qts of the drivers it'll require a larger cabinetI plan on 100 to 160 cross for the sub, depends on what the array does.What crossover points are you using? Sub and mid - tweet.Thanks

Subject: Re: New array - some questions
Posted by Bill Wassilak on Fri, 15 Oct 2004 20:13:57 GMT
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30's not over kill you may just have to attenuate the tweeters a little more, I have to attenuate the tweeters a little to match the array gain to meet the 4" drivers sensitvity, so my tweeters array impedance is going to 8.188 ohm where as the 4" pioneers will have an impedence of 6.23 ohms. This calculates out to 99.45db for the tweeters and 100.09db for the 4's. I want to x-over at 100Hz to the subs,which is the lowest point on my old x-over, by the way I'm bi-amped on my system, and then planing on crossing over at 4Khz from the 4" to the tweeters. I havn't ordered any x-over parts yet I'm going to experiment with the 4k x-over slopes.Tweeters are going to be reconfigured for 5/4/4/5 - 8.18ohm.Woof's right now planing on 3/4/4/4/5 - 6.233ohm.Bill W.

Subject: Re: New array - some questions
Posted by Bill Wassilak on Fri, 15 Oct 2004 20:22:27 GMT
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Messed up on my reply below the tweeters are7/5/5/7 arrangement.Going to try the woofers like in post below3/4/4/4/5 - going to try first but not sure if I'll have to reconfigue for them just depends on what the line sounds like.Bill W.

Subject: Re: New array - some questions
Posted by Wayne Parham on Fri, 15 Oct 2004 20:35:36 GMT
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Hi Bill,Do you think you'll have these baby's ready for the next Great Plains Audio Club meeting?Wayne

Subject: Re: New array - some questions
Posted by lcholke on Sat, 16 Oct 2004 14:28:53 GMT
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Great Plains Audio Club meeting? ! Wane, where is the next one? I would like to attend.(and see these line arrays also)- Linc

Subject: Re: New array - some questions
Posted by Wayne Parham on Sat, 16 Oct 2004 19:39:02 GMT
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Hi Linc,I'm not sure where it will be yet. But I expect we'll all probably iron something out for early to mid November, just before the holiday season.Wayne

Subject: Re: New array - some questions
Posted by Bill Wassilak on Mon, 18 Oct 2004 14:45:31 GMT
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Planing on it.Bill W.

Subject: Re: New array - some questions
Posted by Wayne Parham on Mon, 18 Oct 2004 19:54:14 GMT
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Cool! We should probably start kicking around plans for time and place.