Subject: Question for Wayne
Posted by wasteh202 on Tue, 21 May 2002 02:18:40 GMT
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Wayne is there any chance that substituting A JBL 2226 for the Eminence Delta 15 in the 4Pi Theater? Will I give up to much sensitivity and will the crossover still be right?Thanks in advance for your reply.

Posted by Wayne Parham on Tue, 21 May 2002 03:10:35 GMT
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you're doing something like an EBS, which is not the best application for a 2226. The model that

Response is flat from (f3) 50Hz up, but has useful response to below 20Hz. It rises at 12dB/octave starting about 16Hz, so it can really go deep with room lift, and the slope is complementary.

response rise 6dB in the octave just under crossover to the tweeter. When it is placed in a room corner, then the rest of the audio range is forced into approximately the same directivity pattern, and this equalizes response. Floor placement against a back wall comes close.

response. It has flat response on-axis, even through the region where DI begins to narrow. This is because the midwoofer has falling power response that is roughly equal to its rising DI.

constrained space, the bass will be a little over-emphasized. Tuning is slightly underdamped, so it doesn't sound boomy when used in smaller rooms or placed in corners, but it is best used used in larger environments radiating into quarter-space.

One more thing I should mention is the fact that the JBL 2226 uses a shorting ring. This dramatically reduces distortion, especially at midrange frequencies above 100Hz.

Subject: 4 Pi Pro's are much smaller
Posted by Sam P. on Tue, 21 May 2002 12:10:06 GMT
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than the Theater series. You lose a bit of low end extension, but have lower distortion (numbers on paper, fwiw) from the 2226. Taut, articulate bass with individual notes well defined. And can run it with a simpler LP xover. The difference in enclosure size gives you about a 65 pound finished weight 4 Pi Pro, not sure how much the Theater series 4 Pi weighs, guys? Moving speakers DOES happen. I am personally really screwed if I ever buy another house :)Seriously, the low end from the 2226's is fine, and IF I LIVED IN AN APARTMENT might be less obtrusive to the neighbors than a speaker going down even lower...maybe. For sure, the 4 Pi Pro's would fit into an "apartment sized" living space easier. If you need the bottom octave, you do need to consider the original Theater series design. Good luck, Sambtw, if you are intending to use a 16 ohm 2226J...94dB/watt may be your result...it would be a great speaker still, but need more power to drive it well. and need considered when adapting the xover circuit.

Subject: Re: 4 Pi Pro's are much smaller
Posted by wasteh202 on Tue, 21 May 2002 14:35:44 GMT
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Thanks for the repley both Wayne and Sam.Actually I am looking for as much sensitivity as I can get, but my intention is to bi-amp and could stand to give up a little senstivity. I have access to a good deal on some new JBL2226 ($220.00 pair), and yes 16 ohm works well for me too! Size is not a key factor but I am looking for something as "musical" as I can get also would like to skip the sub and leave that out of the equation. Thanks for the info.

Subject: if biamp is the plan, go JBL!
Posted by Sam P. on Tue, 21 May 2002 16:43:10 GMT

you can always add some low end EQ later. Maybe by the time you need them, Wayne will have active xovers available as KITS? Hint, hint,...Sam