
Subject: Re: Array Tweeter Selection

Posted by [Anonymous](#) on Fri, 01 Jun 2007 14:37:14 GMT

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re: Zaph's tests. People make decisions based on tests, people should buy sampled drivers and do their own listening tests as it offers peace of mind. Keep in mind that Zaph tested the Silver Flute Yag-20 which is similar to the PT2B, but as Rick said the PT2B has a better magnet as is evident by the difference in sensitivity ratings. Yag-20 is rated at 90dB, PT2B is 94dB. It would be premature to rule out PT2B if you look at Yag-20 tests. Zaph also makes a note about drivers used in line arrays. For a non-line array design I would choose a dome tweeter instead of PT2B. But for a big line array with eight - twelve PT2B per tower, that's hard to beat for the money. You can go to home audio stores and not find that sound for \$20k. You should be able to get those tweeters for \$25 in bulk pricing and for the money, they do a good job. If you use 48dB/octave active crossover {DCX2496, et al}, you can stretch the crossover frequency lower. You can also keep more distortion from manifesting when you push the line array to higher levels. You can also change the crossover frequency for different listening situations. The active crossover has advantages where passive crossovers are fixed.

re: BG Neo3 There is also BG Neo3PDR, an upgrade to BG Neo3. Sensitivity is lower; 90dB/2.83v, 4 ohm.

re: Esoteric solutions I didn't mention it before, but I can think of more tweeters to add in this category, but you'd be spending \$700 - \$2000 on each tweeter. lol Is it worth it? Sure it is if you want to push the SPL level higher and keep distortion lower. I'm going to guess and say you can probably generate at least 120dB[c] of treble at 12-20 feet away with these expensive tweeters. The highest end tweeter is rated for 145dB, 3kw peak power, 200mS. lol ... Based on what I've seen, it seems the logical progression would be; \$1 mylar, \$4 dome, \$25 PT2B, \$120 Fountek {or equivalent that may cost \$200}, then the \$300 - \$500 ribbons. Just figure out what your budget is and find the tweeter that fits the wallet. If you can't choose, buy one of each driver candidate and hook it up and just listen to the sound.
