
Subject: Re: second array already in the works
Posted by [Marlboro](#) on Wed, 02 Sep 2009 12:48:28 GMT
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I chose to put each mid in its own separate enclosure to eliminate any interaction in the back wash of sound. Additionally I didn't want any sound coming back through the front of the speaker to muddy the midrange, thus the 22.5 inch SEALED tubes stuffed with fiberglass TO A 4 lb/cu foot density, and wrapped in polyfill batting to keep the fiberglass strands out of the speaker itself.

Also using tubes you have no odd order harmonics in the back wash due to the characteristic of propagation of sound in a closed tube. This means that any sound that might come through will be clarifying sharp even order harmonics. There will be no harmonic distortion since each speaker only handles 6% of the total sound per channel. Each one never plays loud enough to distort in any way.

Its a little known fact that even inexpensive speakers will perform at high QUALITY levels when their volume is turned down low. Its when they are required to play above 3 watts that they start to sound badly when they are inexpensive.

Marlboro
