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Subject: Digging out the old (?) ART array - some questions

Posted by [Rolf](#) on Mon, 30 Nov 2015 17:04:06 GMT

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Dear all,

greetings to all of you from Kenya.

I just registered to find out more about the 2009 ART array speaker.

...the ones explained in detail here:

<http://audioroundtable.com/GroupBuild/Projects/>

...and with nice photos here: <https://fredt300b.smugmug.com/Hobbies/The-ART-Arrays/i-Hhp7hL9>

I actually think I read quite a bit about it, including the long debate at

<http://techtalk.parts-express.com/showthread.php?209376-ART-com-line-array>

AND, most importantly, I already bought the 16 Dayton DC130BS-8

Rather than building/using passive crossovers, I am planning to use - for the time being - an active solution. I own a nanoAVR-HD from miniDSP, which should do the trick.

Before starting to build the speakers, I would however like to clarify a few issues, hoping that some of you were involved in the making and still remember these details - maybe Scott Placke is still around?

First of all, the arrangement of the woofers on the baffle. I assume they were deliberately moved slightly to one side, to minimize baffle-step issues. But were these really serious?

If not, then I would prefer centering the speakers vertically.

Secondly, the dimensions of the port tubes: these ought to be 4" diameter and 4-3/8" length resulting in a 49 Hz tuning frequency. Typing these dimensions and the enclosure volume (~14.5 liters per woofer) into a standard tuning frequency calculator (I am using the German program Boxsim), results in a much higher tuning frequency, namely something around 70 Hz.

Anything that I am overlooking here?

I would appreciate very much hearing back from you.

Best regards,

Rolf

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