
Subject: FredArray II Nearing Completion

Posted by [FredT](#) on Tue, 23 Aug 2005 18:24:39 GMT

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I sold the FredArrays that were at the GPAF, and soon after began to suffer from separation anxiety syndrome. So I drew up some plans for another pair of FredArrays that address some of the issues I had with the first pair. The new pair uses nine Silver Flute 5.5" midwoofers instead of ten, enabling me to reduce the height from 6' to a more manageable (and a bit more WAF friendly) 64". I also replaced the MCM titanium dome tweeter with the Vifa DX25, which I thought sounded exceptionally good in Wayne's Pi 2 towers. The MCM will not cross over much below 4khz and it requires a complex and expensive third order crossover with a notch filter to tame its resonances. The Vifa will cross over as low as 2khz and sounds fine with a simple first order crossover plus a damping resistor across the terminals. To maintain symmetry with an odd number of woofers I set them in an unbroken array on 6" centers, with the tweeter set alongside the center woofer. This increased the width from 10" for the original FredArray to 12" for the model II. (The 12" side and back panels are economically sized to build each enclosure from one sheet of mdf). Total cost to build them, including enclosure materials, will be about \$400. Pictures at

<http://fredt300b.smugmug.com/gallery/753570/1/33234249>

FredArray II Construction Photos
