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Subject: Re: 9 fostex f200a in line array

Posted by [Jim Griffin](#) on Fri, 04 Feb 2005 14:59:05 GMT

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I'll use a situation wherein you have 8 inches diameter drivers mounted in a line so that their frames touch. (You can get a little closer with the F200a because of its flange configuration but not too much.) Thus, you'll have about an 8 inches center to center spacing between drivers. You reach one wavelength at 1695 Hz with this c-t-c spacing. I wouldn't recommend that you go much above that frequency although the really bad things don't happen until 3390 Hz. But you would need to have an aggressive crossover slope to go much above 1695 Hz. One tweeter would work but recognize that you would have your woofers in a line configuration and the tweeter as a point source. Nine of the 8inch woofers would create a near field over much of your listening room while the single tweet would be a point source. Sound fall off would be 3 dB per doubling of the distance from the source for the woofers while the point source would fall off at a 6 dB rate. If your listening distance were fixed, you could balance the sound but if you wish to have well balanced sound throughout the room you would need a line of tweeters (long enough to create a near field). Jim

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