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Subject: Re: Other Drivers and stuff

Posted by [Wayne Parham](#) on Fri, 02 Apr 2004 15:05:14 GMT

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Cool beans. I understand the woofer used in the BDEAP horn is slightly different than the LAB12, so perhaps it doesn't make sense to combine the flux stabilized versions into one project. But they are similar enough the basic woofer structure will be the same, and the efforts to develop them are the same. So in a sense, you and I are cooperating on this one. I do want to address the comments about 20Hz EQ though. Not to pick a fight, but to clarify. You yourself describe the potential of pushing a horn-loaded LAB12 into non-linearity by EQ'ing the bottom end. That's exactly the point I've made in the past, and what I hope to address with the flux stabilized LAB12. Since the woofers in a horn act as direct radiators below horn cutoff, it's really the woofer alone that sets performance limits at those low frequencies. Certainly EQ is an option to bring up the bottom octave, where the horn becomes ineffective. Or if 140dB isn't required and 120dB will do, a smaller direct-radiating package is a viable option and EQ isn't necessary. In either case, having a high-quality subwoofer with a shorting ring will really shine in this application. Horns are great, but if you're looking for operation down to 20Hz, a subwoofer such as this can be used in other smaller enclosure types as well. For maximum power, a horn is the best option. It offers about 15dB greater output above cutoff, which is significant. But the smaller package of using the subwoofer as a direct radiator is a viable alternative, and performance is quite good, particularly at the lowest frequencies.

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