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Subject: Isobaric

Posted by [dbeardsl](#) on Fri, 29 Nov 2002 20:49:04 GMT

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Are there any disadvantages to Isobaric subs?! I've got a couple of Delta 15LF's around and I was thinking about making an isobaric setup with a box around 5 cuft and tuned to maybe 25hz... Should give same output as one Delta in a 10cuft box, just much less space right? (thinking about an endtable for a couch or something.

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Subject: Re: Isobaric

Posted by [Wayne Parham](#) on Fri, 29 Nov 2002 22:02:41 GMT

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An isobaric pair acts like a single unit having a stronger motor coupled to higher mass. I suppose the biggest disadvantage is cost.

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Subject: Re: Isobaric

Posted by [mollecon](#) on Sat, 30 Nov 2002 12:12:40 GMT

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Yes, you're right Dbeardsl - you can half the (effective) volume that way, & maintain the tuning & -3dB point of a single driver in a box twice as big. There are basically two disadvantages: both the efficiency & the impedance will be halved too - the latter if you drive the units in parallel, which will be the right way to do it in order to maintain the damping factor. Both these drawbacks can be overcome by running the sub with a suitable amp - you can even get around the impedance halving by simply running the two drivers with separate amps! But be sure to still run mono... :) & be careful with the phase. In my opinion the most effective way to use this concept is to simply mount the drivers 'face to face' on the frontplate, mounted from the inside/outside the box respectively - this is also easier to build & saves the most space btw.

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