Subject: Triple chamber reflex
Posted by Dynavector on Fri, 09 May 2008 20:27:06 GMT
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These look interesting. What are the benefits of double and triple chambers? Are each tuned lower to get more bass extension or is one of them more like a bandpass making the "excitation band" wider?David
3CR-Ti

Subject: Re: Triple chamber reflex
Posted by Bob Brines on Sun, 11 May 2008 16:45:36 GMT
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Since no one else has posted, I'll give it a shot, although I have never personally done a multi chambered BR.In this design, there are three chambers in series. First the smallest chamber resonates, then the combination of the two smallest, finally the entire volume resonates. This means that there are three separate frequencies that the box supplies the majority of the output. If the resonant frequencies are spaced correctly and the tails properly shaped, the resonant gain of the box will be spread over a larger band width than a single chamber BR. The problem is that usually there are sharp valleys between the resonant peaks. I have never been able to model a multi chamber BR that was smooth enough for my tastes. However, valleys are much less noticeable than peaks. Perhaps this particular design works. There is really only one way to tell for sure.Bob