
Subject: Re: Eminence Beta12LTa -- best cabinet?

Posted by [Wayne Parham](#) on Fri, 09 Sep 2005 07:20:24 GMT

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You could do sealed, sure. The Beta 12LT works very well in a sealed box. But it provides deeper bass extension in a vented box of the same size. Compared with sealed cabinets, vented boxes reduce excursion between fb and fh, which is a large portion of the bass range. Excursion only increases below fl. See the posts called "Port vs Sealed" and "Resonance".

Sealed alignments	Cabinet size	f3	f10	peaking (100Hz - 200Hz)
50Hz	+2dB2.0ft3	70Hz	45Hz	+1dB3.0ft3
65Hz	37Hz6.5ft3	65Hz	35Hz9.5ft3	65Hz
70Hz				40Hz4.5ft3

Vented alignments
(Helmholtz frequency = 35Hz)

Cabinet size	f3	f10	peaking (100Hz - 200Hz)
47Hz	+2dB2.0ft3	63Hz	40Hz
+1.5dB4.5ft3	45Hz	28Hz	+1dB6.5ft3
27Hz			38Hz
			27Hz9.5ft3
			33Hz
