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Subject: Helmholtz frequency of each model

Posted by [Wayne Parham](#) on Fri, 16 Sep 2011 14:41:18 GMT

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It occurred to me that it might be helpful to list the Helmholtz frequency of each model here for reference. You can high-pass at this frequency to limit excursion where the driver is unloaded. There is very little sound produced below this frequency anyway.

Again, for home hifi or home theater, I do not suggest high-passing the mains above this point. We want to blend the mains and the subs for modal smoothing. But there's no harm high-passing at the Helmholtz frequency because no sound is produced below that. These speakers have pretty stiff suspensions, so low frequencies aren't going to rattle them to death but high-pass at the Helmholtz frequency is a good idea anyway. Not required, but beneficial.