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Subject: Re: 100dB/watt at 20 Hz is overkill.

Posted by [Bill Fitzmaurice](#) on Mon, 15 Mar 2004 22:29:32 GMT

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You're on the right track. For Pro-sound horn loaded efficiency is necessary only down to 40 or 50 Hz, and if you design the box with a gradual (12dB) rolloff below  $F_c$  (minimal reactance annulling so that the driver reverts to direct radiator mode for the octave below  $F_c$ ) there is still plenty of power available for the lower octave. As for drivers, the biggest problem is that designers tend to use drivers with  $F_s$  way too low. Eminence has come out with a 12 inch Magnum (I already have a prototype in hand and it is nice) with a 43 Hz  $F_s$  that is much more amenable to horn loading than the Lab12 for pro-sound duty.

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