Subject: Re: Reactance annulling
Posted by Bill Fitzmaurice on Tue, 05 Oct 2004 12:02:24 GMT

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Exactly- though the mathematical terminology used is far more complicated than the physical processes involved; perhaps mathemeticians, like lawyers and politicians, enjoy cloaking simple concepts within complex jargon to make their importance in the overall scheme of things seem more signifiicant than it really is.The simple explanation is that a horn is most efficient to Fc if the system resonance is close to the Fc. When system resonance is below Fc you push it up higher by making the compression chamber smaller. This ties in with why you don't want to start with a driver Fs below Fc, because the acoustic impedance load of the horn and the front chamber push the effective Fs down, and can make the size chamber required to get system resonance back up near Fc impractical or even impossible.