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Subject: Compresion ratio and front chamber size

Posted by [Wayne Parham](#) on Wed, 14 Feb 2007 18:38:47 GMT

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Hopefully others will chime in, as you've said. I'm always happy to throw in my 2¢ when I have time, but it's always good to get others input too.

The main thing that happens when the throat area is equal to diaphragm area is that efficiency is reduced, compared to a horn having greater compression. Risking over-simplification, as compression goes up, efficiency goes up. The response curve is also usually different between horns with and without compression, all other things being equal. There are also differences between horns having compression of different amounts, and with different front chamber volumes. You might grab a copy of Hornresp and model a few scenarios to see what you come up with.

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