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Subject: Their is a lot to be learned in effeciency designing from car audio.

Posted by [strebo](#) on Mon, 28 May 2001 00:09:35 GMT

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Ok. A fellow has a Car stereo system that can presurrize a cab of a Truck to 158dB at frequencys between 22 and 40 hZ.He has 4 15" woofers in 4 sealed enclosures running a true 500 watts per enclosure.Let us run the numbers:The woofers are 93dB 1 W/1 M.Using 4 of them, this would equate to over 100, but not much.Givin the fact that He did hit 158dB, then it would take close to 500,000 watts to get to 158 dB. The loudspeaker environment and loading does change the structure of the math.Food for thought.ref:101 dB 1 W111 dB 10 w121 dB 100w131 dB 1,000w141 dB 10,000w151 db 100,000w161 db 1,000,000w

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Subject: Re: Their is a lot to be learned in effeciency designing from car audio.

Posted by [Wayne Parham](#) on Mon, 28 May 2001 01:42:12 GMT

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Don't forget about thermal compression. The more power you put in, the more loss due to heat. Best to start with something that is very efficient to begin with, so there is less loss to heat. The best speaker for efficiency is a horn.