Subject: Re: Backhorns

Posted by roncla on Fri, 07 May 2004 14:37:33 GMT

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Well a back horn works on several principals. The first being the changing of pressure to amplitude ,which a TL dosent do.A backhorn is , in essence, a 1/2 wave resonator that has to be 1/4 wave minimum length. The higher efficency comes back from the flare rate , a very tight flare, ex. hyperbolic, can have up to a 70% conversion from electrical energy to mechanical. A conical will be quite a bit lower. However the tighter flare will increase distortion. The main factor in a horn is its ability to cover 3-4 octaves in gain, where a BR would cover around 1/2 octave, as well as the perception of "speed". You add to this the TL action and you get superior (in some designs) results. Its all in what you really want. I switched from TLs and TQWT (kinda TL,BR,horn action) simply due to the extreem dynamics and reality of the sound.ron