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Subject: Re: 3 Pi Modifications

Posted by [rkeman](#) on Mon, 05 Apr 2010 20:16:48 GMT

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The purpose of considering a sealed 3 Pi was to maximize the bass transient performance, better control the effects of room gain, and utilize the high excursion capabilities of the AE TD12S. The standard 3 Pi design uses a relatively small vent for a 12" woofer and compression at higher power levels is a concern. Would you consider a larger radius and/or flared vent in this design or is the 2.5" diameter and length vent optimal?

Thanks for the crossover advice as well. The iron core inductors model a little better due to the lower DCR, but are not acceptable if saturation is an issue. The 28 ohm resistance needed in the tweeter network could be created with Mills 8 and 20 ohm resistors if you believe that the 20 ohm resistor will be adequate to handle the relatively increased power. The Mills are rated as 12w resistors.

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