Subject: Re: new subwoofer
Posted by Wayne Parham on Tue, 09 Nov 2004 15:16:22 GMT
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I agree with you on the pump analogy, and the intake and exhaust idea. The speaker itself is a pump, but it's like a two-stroke that has no valves. Thomas (ToFo) proposes a pair of ducts plumbed into the vent with AR orifices that make one (exhaust) flow easier out and one (intake) flow easier in. The ideas is that when the vent has pressure, hot air will flow out the exhaust and when the vent has vacuum, cool air will flow in. That will prevent a single hot air "slug" from moving back and forth along the duct. I think it's a good idea. The only other alternatives are to make the duct itself conduct heat from the air or to do something else that encourages turbulence and mixture of new cool air with expelled hot air.My main focus was always on the distortion aspect, and the push-pull configuration addresses that. But this cooling vent has turned from a secondary issue into what's on the forefront of many people's minds. There's a lot of interest into ways to dissipate heat and increase thermal capacity.