Subject: The Most Powerful Subwoofer in the World
Posted by Wayne Parham on Sat, 15 Oct 2005 08:59:53 GMT
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recent Prosound Shootout. Distortion is also incredibly low, due to the push-pull arrangement. A

hornsub was measured, but according to models, a pair should run 143dB maximum output at one meter and a group of 4 should provide 149dB, with flat response +/-2dB from 30Hz to 125Hz. Single horn response is very good, but it is improved even more in groups, with deepest 30Hz bass output lifted to the 100Hz level.See the chart below. Measurements were taken at 10 meters, so add 20dB to find the SPL at 1 meter. The blue line is is output with 65 volts input, roughly 1600 watts. In my recent tests of the heat exchanger, I found that the speaker can handle this level of contstant input power. Also notice the low distortion levels, which are shown by the violet line in the graph. Distortion is low across the entire range, but a particularly intersting

wattsThe distortion of most horns rises dramatically below cutoff, but that is not the case with the

sometimes sounds like a helicopter blade. What you hear are actually harmonics of the

distortion at low frequencies, and is completely dead quiet deep into cutoff below 20Hz. As frequency rises to the 30Hz level and above, output rises steadily. At that point, the bass was loud enough to vibrate the entire countryside, modulating voices to the point that conversation was impossible.