Subject: Re: Subsonic Speakers?
Posted by AudioFred on Thu, 20 Apr 2017 13:14:08 GMT
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A subsonic subwoofer is one that produces sounds below 20hz at a meaningful level, typically 100dB or more. Subsonic subwoofers do cause an emotional response that's impossible to describe, but it only happens if there's subsonic information in the source. An example of a traditional subsonic sub design is the Allen Organ SR-1 seismic radiator, with a single 15" driver and four passive radiators. The -3dB point is 14.8hz. The lowest fundamental on a pipe organ is 16hz, which is low C of a 32' pipe. The Allen produces this digitally, and it sounds the same only if the speaker can handle that frequency. Try tuning low C on a cathedral organ, with your ears only a foot from the mouth of the pipe, and tell me it doesn't make your hair stand on end.

https://www.allenorgan.com/www/products/speakers/sr1subwoofers.html

But the champion of subsonic radiators is the Eminent Technology TRW-17. Here's a quote about two of their experimental projects with the TRW-18. "The first project took place in Nelspruit South Africa where we exposed elephants to the infrasound component of a rainstorm at an equivalnet distance of 25Km and the elephants immediately detected the sound. The second project took place in Orlando where we exposed alligators to 19Hz with underwater and airborne sounds independently. Each time we introduced the airborne infrasound the alligators responded by bellowing".

http://www.eminent-tech.com/main.html

So when the asshole with the fartbox-in-the-trunk pulls up next to you at a stoplight, and you have a TRW-18 in your trunk, you can at last retaliate.