
Subject: Making the most of these drivers

Posted by [Mike Borzcik](#) on Mon, 10 Dec 2001 04:26:24 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi all, One of my friends recently bought two Pyle Pro 18" woofers to build a sub, and I'd like to recommend that he use some sort of Pi implementation. His primary goal is maximum low end extension, followed by low distortion. Cabinet size is not an issue; in fact, anything smaller than a refrigerator might look too wimpy. :-) I'm guessing that a folded horn would be the best way to go, right? If he does that, is it possible for him to use both woofers in an isobaric configuration, or would he have to build two cabinets? I've kinda figured out how to use PiAlign and BoxPlot for bass reflex speakers, but I'm pretty clueless about using them to design folded horns, especially if I want to tune the sub lower than PiAlign recommends. Any tips? Here are the specs for the woofers: Frequency range: 40-4,000 Hz * Magnet weight: 125 oz. * Fs: 27.4 Hz * SPL: 96.7 dB 1W/1m * Vas: 14.9 cu. ft. * Qms: 5.59 * Qes: .30 * Qts: .28 * Xmax: 5.5 mm Thanks a bunch! Mike Borzcik

Subject: Re: Making the most of these drivers

Posted by [Wayne Parham](#) on Mon, 10 Dec 2001 20:23:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

Those woofers work well in cabinets from 4 cubic feet to 10 cubic feet, tuned to 30-40Hz. PiAlign suggests 4.2 cubic feet tuned to 37Hz. That's how I'd tune the box if they were to be used as woofers in a full-range speaker. For subs, I'd probably tend towards larger boxes tuned lower, say 8-10 cubic feet tuned to 35Hz or so.