Subject: Re: Pyle W820's in a one Pi alignment Posted by Wayne Parham on Thu, 26 Jul 2001 06:58:03 GMT View Forum Message <> Reply to Message

PiAlign recommends a cabinet having the following specifications:Internal volume = 0.65 cubic feetPort diameter = 1.4 inchesPort length = 1.5 inchesI've calculated some volume offsets using CSG:Woofer - 47.5 cubic inchesCone - 8" dia, 2" long - 33.5 cubic inchesCylinder (magnet) - 3" dia, 2" long - 14 cubic inchesTweeter - 5 cubic inchesCone - 3" dia, 2" longPort - 2.5 cubic inches1" Fiberglass insulation (calculated at 1/4 thickness, to compensate for compression volume)Side - 16" x 7" x 0.25" - 28 cubic inchesBottom - 10" x 7" x 0.25 - 17.5 cubic inchesBack - 16" x 10" x 0.25" - 40 cubic inchesTotal displacement: 188 cubic inches (Enter into one of the offset fields, either LFD or "other")Internal cabinet dimensions:Height - 16.4 inchesWidth - 10.9 inchesDepth - 7.3 inchesI would reccomend 5/8" wood stock, so add 5/8th inch twice, or 1.25 inches to each dimension. (Enter 1.25 into the "wood size" field)Final analysis:Height - 17 5/8"Width - 12 3/16"Depth - 8 1/2"Port is 1.4" diameter and 1.5" long. You may substitute a 1 1/2" diameter port that's 2" long since 1.4" diameter (1 7/16ths) will be hard to find.Let us know how your speaker sounds. It looks like it will probably work out very nicely!

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