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Subject: Bass cabinet recommendations - need tips

Posted by [Undecided](#) on Wed, 03 Jul 2002 20:12:33 GMT

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I'm building a sound system with four PHL 1120 midranges and a Raven2.0 tweeter per cabinet. I picked those drivers because I like the sound quality and efficiency. I'm worried about the bass guitar reproduction, I want quality bass at high spl to mate with the above midrange/tweeters. Initial thoughts are to use a 15" or 18" prosound woofer in a sealed box for good bass, but doing so I lose the low end response (20hz-30hz). So.. I don't mind building an additional subwoofer to complement the system for those home theater times when you want to shake the intestines.. Is this the right choice or should I combine the woofer and subwoofer together? Doing so, I probably have to sacrifice quality? The last issue is the midbass. The midrange will probably be crossed over at 300-400hz so I need another driver to run between the woofer and midrange. Again, my initial thoughts are a prosound 12" in a sealed box (f3 80-100hz). I plan to use a fully active crossover system for whole cabinet. Any thoughts on driver selection and box configuration? My brain has odd ideas; Plan A = one tweeter, four midrange, one prosound 12 inch, one prosound 18 inch in a sealed box (per channel). F3 probably 60hz. Plan B = Plan A plus a separate subwoofer enclosure using a longthrow 18" subwoofer to complement the system. F3 probably 20hz. Plan C = Compromise, combine plan A and B and use the 18 inch in a vented box to extend the low end from f3 60hz to maybe 35hz (heh) and lose transient response of a sealed box and lose 20hz capability? Plan D = Plan A minus the prosound 18 inch woofer.. Instead use a long throw 18 inch woofer in a vented box to reach 20hz. Make the 12 inch midbass work a little harder perhaps cross them over between 80-300hz and hope the bass guitar will sound good? I'm limited to 10 cubic feet for the bass cabby.