Subject: I need some good PA designs that can work for JBL drivers!!!!!!!!
Posted by Don17 on Sun, 13 Jul 2003 22:26:32 GMT
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Hello!   I will getting ready to do live sound reinforcement for a church congregation in an auditorium that can hold 800(max) people. The room is 100 feet wide by 150 feet deep. Loud volume levels are expected. My problem is that if I were to use the simple direct-radiating enclosures, I would need about 4 bins per side, each loaded with 2 JBL 15" woofers and a large horn. Buying all those expensive drivers for all those boxes can be quite expensive. Horn-loading would allow me to make the most sound from the least amount of enclosures, but I just dont have the resources to design my own horn for the paticular drivers that I have. But if Horn loaded is the way to go, should I take the risk of designing and building soem type of full range front loaded horn bins like some EAW boxes??? If not, where can i find some plans that are compatible with most drivers out there???-Thanks in advance-Don

Posted by Wayne Parham on Mon, 14 Jul 2003 01:49:40 GMT
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mids and compression driver highs. Depending on the volume you'll need, you might want to run a pair of them on each side of the pulpit area or maybe below and out front, depending on your layout.

Subject: Re: I need some good PA designs that can work for JBL drivers!!!!!!!!
Posted by Larry Acklin on Mon, 14 Jul 2003 16:44:31 GMT
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Don- I agree with Wayne's suggestion of the 10 pi. Put a pair on the FLOOR, each side, next to each other, so the horns couple, and you will get loads 'o bass. Two horns in close coupling get you more and a lower cutoff. (I would not go below 60 Hz tho.) Your design should include some 12" mids- 200-300 hz crossover(?) in bass reflex boxes- I would guess 1 ea in 2 boxes per side, and 1" exit compression drivers coupled to HF horns- possibly the PSD2002 Wayne is fond of. I would configure a pi aligned box for one 12" and a horn.(total 2 mid/high boxes per side) on top of 2 ea. 10 Pi boxes per side as bottoms. Configure the mid/tops with Waynes crossover design (suggest about 1500 hz or higher)from mid to HF, and plan on bi-amping the bottoms and mid/tops.Expect to use a minimum of two amps, one in stereo mode with 2 bottoms per side, and the inputs (only) Y cable connected.The other amp same way, 2 mid/top boxes per channel, with the inputs Y connected.Active crossover (behringer or peavey, or whatever)LOTS of AMP! Figure

a pair of Crown XLS602 or QSC RMS1850 as a MINIMUM.Stage monitors are a whole different topic.(been doing this a lot this summer)(outdoors,too)Larry Acklin