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Subject: Electro Voice TL-606 enclosure with 3 PI components?

Posted by [themilford](#) on Tue, 14 Jun 2011 13:13:00 GMT

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I made a coupla these cabinets for a PA system (TL-606)... I have an extra set of drivers and x-overs for the 3-Pis (Delta12LF and PSD/H290, etc.)

How will this kit perform in these enclosures and will I need to adjust the port?

<http://archives.telex.com/archives/EV/Builders%20Plans/TL606%20Builders%20Plans.pdf>

Not sure how to calculate this kind of port since it's basically three ports of different size and is along side the cabinet wall...

I could use a little help here.

Cheers,  
David

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Subject: Re: Electro Voice TL-606 enclosure with 3 PI components?

Posted by [Wayne Parham](#) on Tue, 14 Jun 2011 14:25:08 GMT

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The (Helmholtz) box tuning is relatively easy. The Delta 12LF works well in boxes from 3.0ft<sup>3</sup> to 6.0ft<sup>3</sup> tuned to 30Hz, and can be used in boxes a little larger, up to about 8.0ft<sup>3</sup>, albeit with slightly lower tuning, from 25Hz to 28Hz. Just about any loudspeaker modeling program (i.e. BoxPlot) can help you calculate this.

The thing to be concerned about is internal standing waves, which will cause ripples in response through the midbass and midrange frequencies. This is where careful midwoofer and port placement helps, and also the right use of damping material inside. I've found it is important to put a sheet of insulation spanning the cross-section in addition to the sheets that line the sides.

tweeter in the same place relative to each other. This will ensure the forward lobe is clean and properly positioned.

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Subject: Re: Electro Voice TL-606 enclosure with 3 PI components?

Posted by [Bill Wassilak](#) on Sat, 18 Jun 2011 04:24:25 GMT

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The TL-606 cabinets were made for a the EVM 15L's and EVM EVM 15B's (15" drivers), which

didn't do anything below 60hz. But there's an advantage, which is being able to change the baffle board size to adapt the Delta12's which Wayne mentioned. You have between 2.89 cu ft 3.1 cu.ft. to work with based on the size of the driver. Then port length will be based on what freq. you want to tune the cabinet to. Run computer simulations like Wayne said, you'll see.

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