Subject: 4Pi crossover with 2226H and D220Ti+QSC PL-000446GP? Posted by dubwoofer on Thu, 04 Dec 2014 23:56:32 GMT View Forum Message <> Reply to Message

Hello,

I hope this is the right subforum...I'm planning a center channel speaker build to go in between some Altec A7's, using a 2226H and a D220Ti/QSC waveguide and was wondering if the 4Pi crossover would be suitable in this application. The current plan is to use a 3 cu ft enclosure with a 2"Hx17"Wx13"D slot vent for an Fb of about 42Hz.

Subject: Re: 4Pi crossover with 2226H and D220Ti+QSC PL-000446GP? Posted by Wayne Parham on Fri, 05 Dec 2014 20:29:24 GMT View Forum Message <> Reply to Message

and a compression driver mounted on the H290C waveguide. It may be suitable for use with another waveguide, but I would definitely want to see measurements to know for sure.

Subject: Re: 4Pi crossover with 2226H and D220Ti+QSC PL-000446GP? Posted by dubwoofer on Sat, 06 Dec 2014 09:07:39 GMT View Forum Message <> Reply to Message

Hi Wayne.

Since my post I've gone back and looked at the data for the drivers above... The D220Ti is probably not the best choice (I just had it on hand), and I'll be getting the DE250 to use instead-the consensus is it's a better transducer. I'd still like to use the waveguide I bought though.

I found the following measurements on the DE250/QSC WG combo...

https://sites.google.com/site/drivervault/driver-measurements/horns-and-waveguides/qsc-pl-00044 6-gp/frequency-response

https://sites.google.com/site/drivervault/driver-measurements/horns-and-waveguides/qsc-pl-00044 6-gp/impedance

http://techtalk.parts-express.com/showthread.php?215536-Flex-Your-PCD-Mettle&p=1625810#po st1625810

Subject: Re: 4Pi crossover with 2226H and D220Ti+QSC PL-000446GP? Posted by Wayne Parham on Sat, 06 Dec 2014 14:28:10 GMT View Forum Message <> Reply to Message

The QSC waveguide is pretty close to the H290C in its acoustic properties; Even the acoustic center is pretty close. So the crossover is close too. I am taking this inferrence from the measurements made by Skywave Rider a couple years back. But the waveguides are different, so I cannnot guarantee performance. All I can say is mount both the waveguide and the midwoofer on the same baffle and keep the center-to-center spacing as close as possible for best results.

Subject: Re: 4Pi crossover with 2226H and D220Ti+QSC PL-000446GP? Posted by dubwoofer on Sat, 06 Dec 2014 21:00:54 GMT View Forum Message <> Reply to Message

Should I make an effort to offset the HF unit so that the drivers are time aligned? Also how do I calculate the amount of polyfill I need?

Subject: Re: 4Pi crossover with 2226H and D220Ti+QSC PL-000446GP? Posted by Wayne Parham on Sat, 06 Dec 2014 23:07:32 GMT View Forum Message <> Reply to Message

loudspeakers.