Subject: Infinity DVC Watkins woofer
Posted by JohnH on Sun, 14 Dec 2003 16:29:17 GMT
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hi i've got a pair of Infinity Dual voice coil watkins woofers. what kind of box should i put them in for best response and extensionthanks, john

Subject: Re: Infinity DVC Watkins woofer
Posted by Wayne Parham on Sun, 14 Dec 2003 18:04:09 GMT
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What are the T/S specs?

Subject: Forget the infinitys! I have a better project!! (jbls)
Posted by JohnH on Sun, 14 Dec 2003 23:02:32 GMT
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A friend convinced to make something worthwhole with the drivers i have.i have an unopened pair of jbl 2235 in box along with a pair of jbl Me-120. The Me-120 are the little brother to the Me-150 used in one of the K2 everest speakers. Jbl didn't run full T/S testing on them so i will probably do trial and error with them.however, you guys could help me a lot with the pair of jbl 2235. At this link it says dual 2235s were used in a 10ft enclosure then tuned to 20hz. i assume this is in an EBS alignment. would there be an added benefit giving each driver 10-16 cubic feet of space and still tuning it twenty why only 5ft. i want a solid twenty and 16hz at the -3 or 5 db point with room risehow does the EBS alignment compared to sealed and reflex systems. I usually prefer sealed systems for their transient response but i heard the 2235 handles and controls it self very well in ported applications so the bass is still tight.i will probably crossing over to the 2235 at 50 or 60 at the most probably a little lowerthanks for all the help. i'm just getting into serious speaker building

Subject: JBL 2235
Posted by Wayne Parham on Sun, 14 Dec 2003 23:35:55 GMT
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Those 2235's are nice. You'll be able to make some really great speakers with them.PiAlign recommends a cabinet of 4.0ft3, tuned to 30Hz with a rectangular port 2.25" x 4" and 3.6" long. Response is nice and flat, having f3 of 40Hz and f10 of 25Hz.If you go larger than this, you'll probably want an EBS alignment. EBS alignments offer extended bass, but at a reduced level. An excellent EBS alignment for this driver is 10.0ft3, and tuned to 23Hz. This provides flat

response down to 25Hz, and the reduction in output is only 3dB. In other words, output between 25Hz and 100Hz is flat, but reduced 3dB from the level above 100Hz.I wouldn't make the cabinet much larger than this, because the alignments get too touchy. Some guys put these things in very large sealed boxes, but I wouldn't do that either. You can see what I mean using BoxPlot or another response modeling program.

Subject: Re: JBL 2235
Posted by JohnH on Mon, 15 Dec 2003 23:00:56 GMT
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thanks for you reply waynewhen you say 10.0ft3 for the EBS alignment is that for one driver or 2 drivers. also what results would i have if i tuned the box to 20 the fs to reduce cone movement at 20hz. would it allow me to get 20 hz or lower out of itjohn

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Subject: Re: JBL 2235
Posted by Wayne Parham on Tue, 16 Dec 2003 00:03:51 GMT
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The EBS alignment I mentioned was for a single 2235 in a 10ft3 box tuned to 23Hz. Honestly, tuning between 20Hz and 25Hz will work pretty well for a box this size. But 20Hz tuning results in a less bass output because it's just too low. Tune it just a smidge higher and you're better off.
