Subject: Eminence Omega pro 18" --cant find box volume
Posted by Mikeyboi on Wed, 01 May 2002 20:54:01 GMT
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Hello- I need some serious help- I've been trying for days to tune a box for an Omega pro (Eminence) 18" driver- I need it to go down to at least 38hz -3db up to say 300Hz, its for bass guitar. I cant seem to design anything below 58hz -3db and thats with a 2.253ft^3 enclosure tuned to 47.63 hz. Everything I try puts a hell of a spike at 58 hz and a 1.2db dip at 100hz. Its getting frustrating. Any help would be extremely appreciated. Thank you so much- have a great dayMikeyboi

Subject: Re: Eminence Omega pro 18" --cant find box volume
Posted by freddyi on Wed, 01 May 2002 21:06:39 GMT
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Hi going by filter theory a jammed BW would be ~4.1cu.ft and tuned to 47Hz with f3 of 47 and Be4 of same volume tuned to ~38hz with f3 of about 58hz - did you simulate for boxes in ~4-5cu.ft. range tuned about 1/3-1/2 octave above 30hz? - one guy says a Karlson's front chamber air mass will effectively shift qes upwards and fs downwards allowing a different response to be achieved than with regular VBFreddy

Subject: Re: Eminence Omega pro 18" --cant find box volume
Posted by Adam on Wed, 01 May 2002 21:10:20 GMT
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I can't do a simulation for you right now because my computer is messed up, but I'll tell ya right now that the low Q of the omega 18's will make them very difficult to get deep bass response out of them. However, if you send me an e-mail I'll get back to you as soon as my computer is running properly again.Can you use any different drivers than the omega 18"?Adam

Subject: Re: Eminence Omega pro 18" --cant find box volume
Posted by LuxmanLover on Wed, 01 May 2002 22:01:05 GMT
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150 L tuned to 40 Hz will go to an F3 of 38Hz with a 1.3 Db dip...considering most people need 3Db to hear any difference that's probably as good as it's going to get with that driver.Kelly

Subject: Re: Eminence Omega pro 18" --cant find box volume
Posted by Mikeyboi on Thu, 02 May 2002 20:08:48 GMT
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My cab is about 4.812 ft^3 tuned to 47hz-- Still can't get a good flow- Is it true that the human ear cant perceive anything under 3db in change? - Its frustrating paying 200 clams for a speaker and not getting the performance youd expect- I know better now.Thanks so much for your help everyone