
Subject: Thanks a lot and a few more questions!

Posted by [Peter Krojgaard](#) on Thu, 03 Jun 2004 15:36:02 GMT

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Hi Bill, Thanks a lot for your answer. You just know it all! McBeans program actually display impedance based on the T/S parameters of the driver(s) and the actual horn, of course, so I hope I can use these program facilities as a rule of thumb. However, the program displays both Acoustical and Electrical impedance. Question 1: Please correct me if I am wrong, but is it the Electrical impedance you refer to in your reply? If it is the Electrical impedance you refer to, then I would like to know how critical 'reactance annulling' is soundwise (Unfortunately, I have already ordered the cabinets that might be too small, so it may be an expensive lesson - at least to me!). The cabinets ordered have a back chamber volume of 120 liters, which gives an Electrical impedance peak at about 32 Hz, while the $F_c = 29.11$ Hz. According to your answer, this indicates that the cabinet is too small!! With your added knowledge I have now been changing the numbers in the program, and these simulations indicate that I have to increase the back chamber volume to 160 liter in order to push the electrical impedance peak from 32 Hz down to 29 Hz. Question 2: Would such a change (pushing the impedance peak from 32 Hz to 29 Hz) make a large difference soundwise? I thank you a lot in anticipation and look forward to hear your answer! Regards Peter Krojgaard