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Subject: hornworks

Posted by [DanTheMan](#) on Sat, 30 Dec 2006 16:42:02 GMT

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I've got a question or two. What would be the effects of adding DynaMat or similar material to the sound path of a horn (front chamber and horn area)? And what is the effect or purpose of the front chamber and what would be the effect of eliminating it? In other words, what purpose does it serve? I know it will increase pressure, but what is the advantage of that? And the disadvantage? Would you lose efficiency, but gain bandwidth by removing it? Sorry if I'm being redundant. Thanks for any reply in advance! Dan

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Subject: Re: hornworks

Posted by [Bill Wassilak](#) on Wed, 03 Jan 2007 16:44:19 GMT

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:::What would be the effects of adding DynaMat or similar material to the sound path of a horn (front chamber and horn area)? Attenuated high frequencies.:::And what is the effect or purpose of the front chamber and what would be the effect of eliminating it? In other words, what purpose does it serve? It acts as a low pass filter. So eliminating it would let higher frequency pass.:::I know it will increase pressure, but what is the advantage of that? And the disadvantage? Horn gain over a narrower bandwidth, disadvantage - less efficient horn.:::Would you lose efficiency, but gain bandwidth by removing it? Yes. HTH Bill W.

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Subject: Re: hornworks

Posted by [DMoore](#) on Sat, 06 Jan 2007 00:46:34 GMT

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ditto what Bill said. Also think of the front chamber as a capacitive space, exactly like putting a capacitor across the terminals, it reduces high frequencies along with a reduction in reactance. Removing it allows the bandwidth to be determined by the driver/throat/horn Fc combination.