Subject: Can you guess horn cut-off by dimension only?
Posted by Chris R. on Mon, 23 Feb 2009 03:28:23 GMT
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Wayne, If all you know about a horn is it's dimensions, can you make a decent guess as to it's lower cut-off freq? I'm looking for somebargin horns (Goldwood from PE) to cover 800Hz-5KHz. I picked up a pair of empty Cornwall cabinets and already haveeverything except mid-horns to get them going.Thx, Chris

Subject: Re: Can you guess horn cut-off by dimension only?
Posted by Wayne Parham on Mon, 23 Feb 2009 17:17:34 GMT
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smoothness of response above that frequency, directivity, efficiency, etc. is determined by the rest of the horn's features.

Subject: Re: Can you guess horn cut-off by dimension only?
Posted by Chris R on Mon, 23 Feb 2009 18:30:06 GMT
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Thanks Wayne, So, for a JBL 2370A, they are claiming a cut-off of 630Hz with a depth (length) of ~7". So... 630Hs is a wavelength of 21.6",so this horn is ~.31 of the wavelength at spec, right? Can I conclude that other horns with similar depths and dimensionswill have similar specs? I realize there's a *lot* of generalization in that statement.90 x 40 dispersion Full horn loading to 630 Hz Dimensions: 6-7/8" H x 17-1/2" W x 6-7/8" D Thx, Chris

Subject: Re: Can you guess horn cut-off by dimension only?
Posted by Wayne Parham on Mon, 23 Feb 2009 19:13:23 GMT
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response, sometimes mitigated by other horn features like flare profile and rear chamber size.