
Subject: differences in APT horn flairs
Posted by [Chris R](#) on Wed, 08 Sep 2004 19:59:55 GMT
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Hi Wayne, others, Aside from shape, looks, etc. what's the difference between the three horn flairs that eminece offers with the APT drivers? There's quite a price spread, and I'm wondering if one sounds better than another and why. Thx, Chris

Subject: Re: differences in APT horn flairs
Posted by [Wayne Parham](#) on Thu, 09 Sep 2004 00:41:09 GMT
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I'm not sure this will help much but here goes. The APT:200 is shaped like a JBL 2344. The APT:80 is a small round conical horn with 80° pattern. APT:150 is a rectangular CD horn with 100°x50° pattern. The 80 and 150 cost about the same, and the 150 is a little more. All of 'em are designed for 3.5kHz minimum.

Subject: Re: differences in APT horn flairs
Posted by [Chris R](#) on Thu, 09 Sep 2004 17:26:36 GMT
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I was hoping for some input on perceptable sound differences. I've seen comments from you about liking exponential and/or radial horns over CD horns, though I don't remember why. Thx, Chris

Subject: Re: differences in APT horn flairs
Posted by [Wayne Parham](#) on Thu, 09 Sep 2004 20:21:13 GMT
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I don't really care for the sound of CD horns with sharp edges. They're designed to control the radiating angle at frequency extremes, but I believe they do this at the expense of sound quality. I much prefer 90°x40° radial horns with straight side walls and a simple radiused throat. These provide nearly constant directivity in the horizontal plane and uniformly collapsing directivity in the vertical plane, which I think sounds great. It is also relatively easy to work with in the crossover, because their shape allows tight vertical spacing, which in turn sets the vertical nulls outside the HF pattern. The end result is a speaker with very smooth response with a desirably large 90°x40° forward lobe.
