Subject: Re: Another Happy H290C Fan...
Posted by Wayne Parham on Sun, 09 Dec 2012 19:01:58 GMT
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That's very good advice, Scott. The H290C waveguides were designed to be used on a baffle. They should not be cradle mounted like our H390C wood horn/waveguide is usually used.

The reason is the H390C horn/waveguide is large enough to support the wavefront expansion in free-space, whereas the H290C is not. It doesn't need to be, since the baffle serves this purpose. We get closer center-to-center spacing as a result of this baffle dependency.

One way the H290C can be used "freestanding" is to mount it on a small baffle or in a little box. It doesn't have to be large, although it helps to be at least 4" wider on each side and 6" taller.

The bottom lip of the H290C should still be fairly close to the next adjacent subsystem (midhorn or midwoofer) but these can also serve as part of the baffle. In other words, if the H290C is sitting directly on top of a midhorn or midwoofer box, the baffling below the waveguide can be formed by the midrange driver or cabinet, itself. In this case, just increase the frontal area above and to the sides of the H290C by a couple inches.