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Subject: Is They Is Or Is They Ain't Horns  
Posted by [Fresno](#) on Tue, 17 Sep 2002 12:12:50 GMT  
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Are the Pi Corner Horns really "Horns" or are they somekind of a horn arrangement of a bass reflex speaker? I am new to this stuff but the web page shows the same driver for the horns as the bass relex.Fresno

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Subject: Biggest horns you can fit in a room.  
Posted by [Wayne Parham](#) on Tue, 17 Sep 2002 17:44:43 GMT  
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I suppose this is sort of like the question of whether a horn is an acoustic impedance matching device or simply defines a fractional radiating space. But no matter how you look at it, the expansion of a room's corner forms a conical horn, as much a horn as any other. The area expansion is equivalent to a rectangular horn with 70o flare. See the schematic diagram in the post called "Cornerhorns".

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Subject: Re: Biggest horns you can fit in a room.  
Posted by [Fresno](#) on Tue, 17 Sep 2002 20:27:19 GMT  
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On this page on your website it shows the same LF motors for your bass reflex as well as your corner horns:<http://www.pispeakers.com/AvailableComponents.htm#Theater>Isn't a horn a different type of speaker or am I misunderstanding things?

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Subject: Re: Biggest horns you can fit in a room.  
Posted by [Wayne Parham](#) on Tue, 17 Sep 2002 21:01:52 GMT  
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You can put a horn on any loudspeaker. In fact, you can use a horn with no loudspeaker at all, such as is the case with a megaphone. A horn is just an acoustic device that directs a sound wave. As a consequence, it also modifies acoustic impedance.

Subject: Re: Biggest horns you can fit in a room.  
Posted by [Fresno](#) on Tue, 17 Sep 2002 23:20:28 GMT  
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Wayne,I had the wrong mental picture of what a horn is. Thanks for your patience.Can horns be designed for "source accurate" imaging?

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Subject: Re: Biggest horns you can fit in a room.  
Posted by [Wayne Parham](#) on Wed, 18 Sep 2002 01:22:56 GMT  
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A horn is a device having an entrance (throat), passageway (flare) and exit (mouth). So horns are made by bringing a megaphone-like device in near proximity to loudspeaker diaphragm. The system is usually sealed so the radiated sound has to pass through the horn with no leaks. In the itself.

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Subject: Re: Biggest horns you can fit in a room.  
Posted by [Fresno](#) on Wed, 18 Sep 2002 10:03:52 GMT  
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I thought that the horn was a replacement for the cone of the driver. I don't know how it would move enough air to get the low freqs, but there is a lot I don't know.

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Subject: Re: Here's an image....  
Posted by [Matts](#) on Wed, 18 Sep 2002 12:05:27 GMT  
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I think this is made in Japan and is very expensive...

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Horn Speaker Image

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Subject: TQWP?

Posted by [JLapaire](#) on Wed, 18 Sep 2002 14:15:30 GMT

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Kind of hard to tell the scale to guess at the cutoff, but that looks like a 40 or 50 hz Tapered Quarter Wave Pipe bent to look like a sax. Cool, but not really a horn. John

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Subject: Re: TQWP? Yes, and good visual pun! n/t

Posted by [Matts](#) on Wed, 18 Sep 2002 14:46:37 GMT

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n/t

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Subject: That's it!

Posted by [Fresno](#) on Thu, 19 Sep 2002 16:12:24 GMT

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When you blow a trumpet your lips provide the frequency of the air you are expelling, the shape of the trumpet (horn) makes it louder. In the case of a sax, it is the reed vibrating, not the lips. To complete the analogy, lungs plus lips/reed = driver, shape of the trumpet/sax = shape of the enclosure plus the room.

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