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Subject: best driver for voigt pipes

Posted by [buboy sarte](#) on Wed, 14 Dec 2005 12:00:30 GMT

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Dear Mr Brines, i am a newbie in hi-fi and am currently searching for the best, if not, perfect full range drivers for my Voigts. i live in the Philippines, an infant member of the Wired State Audio community and possess an excellent pair of enclosures that were invented by a Filipino by the name of Ike Tuazon. i own a pair of his backloaded 12ft folded horns that are 6ft in height. I'm very happy with it even with a pair of Radio Shack 6 inch full range drivers installed in them. many who know of "Ike's Voigts" believe that the best driver for these monsters is the now-discontinued RS 1354a. i've searched high and low for them to know avail. i suspect that there is a full ranger driver out there that can rival, if not, surpass the 1354a as the ultimate partner for my Voigts. i've researched in the net and hereare a few items w/c i feel can compliment my horns: Visaton B200 Fostex 126 Lowther drivers Tesla drivers if it's not too much to ask, what is the best driver that you can recommend to me for my Ikes Voigts? i must however say that i can only afford drivers in the US\$ 100 - 200 range. thank you and a Merry Christmas to you and your family. Sincerely, kabubi

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Subject: Clarification?

Posted by [akhilesh](#) on Wed, 14 Dec 2005 12:32:34 GMT

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"a Filipino by the name of Ike Tuazon. i own a pair of his backloaded 12ft folded horns that are 6ft in height. I'm very happy with it even with a pair of Radio Shack 6 inch full range drivers installed in them. many who know of "Ike's Voigts" believe that the best driver for these monsters is the now-discontinued RS 1354a."Is it a folded Voigt Pipe, or a backloaded horn? They are not the same, as you know. Clarifying this may help you get better answers to your query. -akhilesh

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Subject: Re: best driver for voigt pipes

Posted by [Bob Brines](#) on Wed, 14 Dec 2005 13:29:46 GMT

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I believe that Ike's pipes are a variation of Terry Cain's "Bigger is Better" design. If so, there has been a long thread at diyAudio Forums - Full Range. This is not a "Voigt Pipe", it is a folded back horn. I have problems with this design, but apparently it works well when placed against a wall, or better, when placed in a corner. Of your driver choices, the B200 is only suitable for open baffle applications. The FE126E might work, but the FE127E is a better choice. The Lowther D55 might work, but it is way out of your price range. I know nothing about the Tesla drivers. Do yourself a favor. Get a pair of FE167E's and put them in a proper MLTL. You will be happy with the result. The total cost of this DIY project is \$200-300US, depending on the finish you apply, for parts

purchased in the US. Talk to "Vintage\_Dog".Bob

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Subject: Re: Clarification?

Posted by [kabubi](#) on Thu, 15 Dec 2005 00:04:42 GMT

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thanks for the reply, sir.Bob Brines also replied to my query. he clarified that it is a FOLDED BACK HORN, not a voigt pipe. looking forward to your reply.Merry Christmas!buboy

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Subject: Re: best driver for voigt pipes

Posted by [kabubi](#) on Thu, 15 Dec 2005 00:09:50 GMT

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thank you very much for the reply, Mr Brines.it is very humbling when a person of your stature shares advise with a newbie like yours truly.btw, what does "MLTL" mean?kabubi

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Subject: Re: best driver for voigt pipes

Posted by [Bob Brines](#) on Thu, 15 Dec 2005 05:17:50 GMT

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Mass Loaded Transmission Line. A relatively short, straight pipe with a relatively small port.Bob

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Subject: Re: best driver for voigt pipes

Posted by [GM](#) on Thu, 15 Dec 2005 16:09:34 GMT

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Greets!Hmm, TC's speaker is one of Voigt's pipe designs shown in his patent, ergo is what I consider a 'Voigt pipe' to be, so are you saying it's not like the seemingly mislabeled LCofN's mass loaded variant?Even then, I guess one could argue that this variant is one also since his tapered design was meant to be either terminated into a corner to finish the horn's expansion or floor loaded to slot (mass) load it.....GM

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Subject: Re: best driver for voigt pipes

Posted by [Bob Brines](#) on Thu, 15 Dec 2005 18:29:11 GMT

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>>Hmm, TC's speaker is one of Voigt's pipe designs shown in his patent, ergo is what I consider a 'Voigt pipe' to be, so are you saying it's not like the seemingly mislabeled LCoFN's mass loaded variant? I guess that I will have to read the text of Voigt's patent again, but I don't see either the B-is-B or the LCN pipe matching the figures. But, then they could be easily considered correlaries of one or more of the figures. The terminology used today fits neither the physics or the history of pipe design. I guess this is my main point. Voigt pipes, MLTL's, TL's, TQWT's, back horn, corner horn, you get the picture. I agree with you (agreeing with me?) that the B-is-B is a corner loaded back horn. As such it works completely different from the LCN TQWT. So, I can't consider them the same or correlaries of each other. Anyway, keep me straight! Bob

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Subject: Re: best driver for voigt pipes

Posted by [GM](#) on Sat, 17 Dec 2005 17:01:20 GMT

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>I guess that I will have to read the text of Voigt's patent again, but I don't see either the B-is-B or the LCN pipe matching the figures. But, then they could be easily considered correlaries of one or more of the figures. =====Greet! No, not per se since the written portion just gives an example, not a 'carved in stone' design like some folks have interpreted it, with the drawings indicating the various concepts not covered in the various Bell Labs/W.E. patents. =====>The terminology used today fits neither the physics or the history of pipe design. I guess this is my main point. Voigt pipes, MLTL's, TL's, TQWT's, back horn, corner horn, you get the picture. =====Well, the physics hasn't changed, not sure what you mean WRT history, and for sure the nomenclature has changed over time. ML-TLs, multiple resonant cavity (BP) designs were lumped in with 'reflex', Voigt pipes/any flavor of TL were lumped together as 'Acoustic Labryinths', and anything that had a positive expansion was a horn regardless of whether it had a reduced exit (vent) or not. =====>I agree with you (agreeing with me?) that the B-is-B is a corner loaded back horn. As such it works completely different from the LCN TQWT. So, I can't consider them the same or correlaries of each other. Anyway, keep me straight! Bob =====Right, though located as shown in his write-up it's just a folded BLH since it's too far from the corners/ceiling for proper loading, though my SWAG is they're close enough for some down around Fc. GM

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