
Subject: Re: Definimax 4012HO - End of Life
Posted by [Wayne Parham](#) on Mon, 15 Jan 2024 16:37:18 GMT
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I don't remember specifically what made me pass on the Faital drivers for three Pi model, because I looked at many midwoofers back then.

In many cases, the problem that keeps a driver "off the table" is the basic electro-mechanical stuff. The driver just isn't suited for the box - It's made for a different purpose. While I could re-design for a different box, there's more in play than just the alignment.

The size of the baffle also sets the baffle step characteristics, which play into the flanking sub setup. Once I started using flanking subs, I found that this size cabinet works really well with flanking subs not only because of SBIR/modal mitigation but also by filling-in where the cabinet alignment and baffle-step starts to create drooping response.

Above and beyond the electro-mechanical properties of the midwoofer is its behavior at higher frequencies. Most 12" and 15" midwoofers are great to 500Hz and many are good to 1kHz but the field starts to narrow when trying to find midwoofers that "play nice" above that. We really need clean response to around 1.2kHz for this design.