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Subject: Re: flanking subs with small mains

Posted by [Wayne Parham](#) on Fri, 22 Feb 2013 21:25:48 GMT

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Keep in mind that the flanking sub / helper woofer approach does most of its thing between 80Hz and 200Hz. So if the mains can run to 80Hz, you can run helper woofers like I described and get as much benefit from them as flanking subs that are typically run deeper. Your sound processor can be configured to high-pass the mains (and the connected helper woofers) at 80Hz.

The only real distinction between what I would call flanking subs and helper woofers is low-frequency extension. Flanking subs are generally run as helper woofers but with deeper bass capability. They do the helper woofer part up high, mitigating the self-interference notches from nearest boundaries. Then down low they act as traditional subs, but of course only with whatever content is in the channel of the main speaker being flanked. This can assist the distributed subs in smoothing lower frequency room modes.

But in your case, I think you're saying you want to high-pass the mains around 80Hz. So I'd probably consider running helper woofers, and not expect deep bass from either the mains or the helper woofers. The helper woofers are still flanking the mains, smoothing the 80-200Hz range, but they're not subs. They're more like a 2.5-way speaker used from 80Hz up, where the second helper woofer is detached from the main cabinet, set a little bit beside, behind and below it.

Then run your LFE channel to a traditional subwoofer or an array of multisubs.