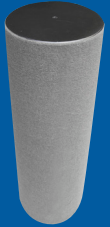


# ASC Acoustics 101



## The SmartTrap Family



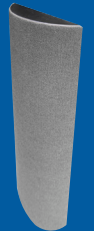
13" x 3'  
Full-Round



11" x 3'  
Half-Round



14" x 3' x 2"  
Wall Panel



14" x 3'  
Diffuser Panel

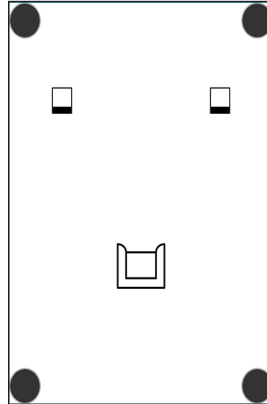
## HiFi Listening Room Optimization

### STEP 1.

Add Full-Round TubeTraps to all four corners, start at the speaker end of room.

2X's tall is better.

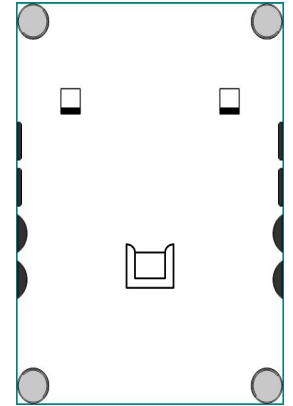
Chrome dots point to the listening chair. Rotate Tubes to increase treble absorption.



### STEP 2.

Add Wall Panels, Diffuser Panels, or a combination of both to the side wall.

Diffusers turn hard reflections into ambiance. Panels absorb hard reflections.



Improve dynamics, unmask midrange/treble detail, reduce "room boom".

Launching a clean wavefront at the front of the room, and cleaning up the excess energy at the rear of the room make the most dramatic improvements.

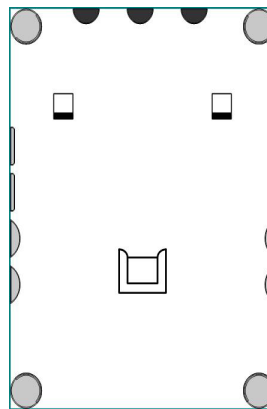
This removes ghost images in the horizontal plane, making images more focused.

Larger speakers will benefit from using Half-Rounds instead. Their additional bass absorbing capability will enhance bass dynamics.

### STEP 3.

Add Half-Rounds to the front wall.

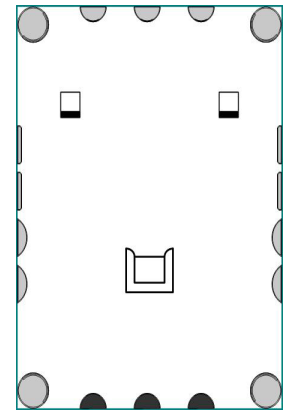
2X's tall is better.



### STEP 4.

Add Half-Rounds to the rear wall.

2X's tall is better.



This deepens the sound stage, by reducing ghost images from the front wall. Treble reflectors maintain room ambiance.

Capturing bass energy at the rear of the room allows the direct bass sounds to have more impact, free from masking, cancellations, and room modes.

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