

## Furutech Room Diffuser (FRD)



Experienced listeners know that when enjoying their speaker systems they're actually hearing the interaction of the speakers and the room. As sound waves energize the space they react with each other and the room boundaries in complex ways. It helps to think of sound like water when considering room acoustics. Sound waves splash to the corners of the wall behind the speakers and reflect back towards the center of the wall where they meet themselves out of phase creating "standing waves" of peaks and nulls emphasizing or sucking out narrow bands of frequencies. Ceiling and floor reflections plus first reflection points on the side walls between the speakers and the listening area muddy the direct-arriving sound.

This results in a bloated, confused and opaque soundstage, loss of image focus and precision, sloppy, boomy bass, a thick impenetrable midrange, and bright, sizzling high frequencies.

These naturally-occurring acoustic phenomena also guarantee the sound is never the same from one place to the other in your room – thin bass at one location gives way to overwhelming bass energy in another "masking" higher frequencies. The lack of transparency and detail leave movie soundtracks difficult to understand, surround effects less enveloping, while music loses all dynamics and sparkle.

### **The Furutech Room Diffuser Room Tuning Panels Solution**

Furutech offers powerful room correction with lightweight, cost-effective, easy to place the Furutech Room Diffusers. These elegant, unobtrusive acoustic devices include mounting hardware for wall and/or ceiling use plus footers for freestanding mode.

Each unit consists of concave and convex "dampers" – specially designed by Furutech engineers - shaped from Air Foam Polystyrene, with top, bottom and rear sides in wood. The side panels are plastic and the pièce de résistance – the outer surface is covered in 100% silk. These are, by a wide margin, the most domestically acceptable and powerfully effective audio accessory you may ever own.

## **No Acoustics Engineer Needed!**

There's absolutely no need to cover your walls with tuning panels. Following the classic Rule of Thirds, at a minimum, place one Furutech Room Diffuser centered on the wall behind your speakers. A slightly better setup for taming room modes is two Furutech Room Diffusers, one behind each speaker. But the best way to cure room modes behind the speakers is using three panels spaced at 1/3<sup>rd</sup> intervals.

Moving up a level in performance, placing another pair on the walls between the speakers and the listeners is important for eliminating first reflection points that confuse the focus at the listening position with secondary wall reflections arriving milliseconds after the direct sound. Finding the first reflection point is easy with friend or family assisting. Sit in the listening position and have your assistant move a mirror held flat against the side walls until the tweeter of the speaker is reflected in the mirror. That's the first reflection point, and the position best treated for startlingly improved sound. Another significant improvement places an additional Furutech Room Diffuser on the ceiling in line with the walls' first reflection points, cleaning up the sound even more. Finally, one to three Panels can be used on the wall behind the listener for the ultimate musical and video experience.

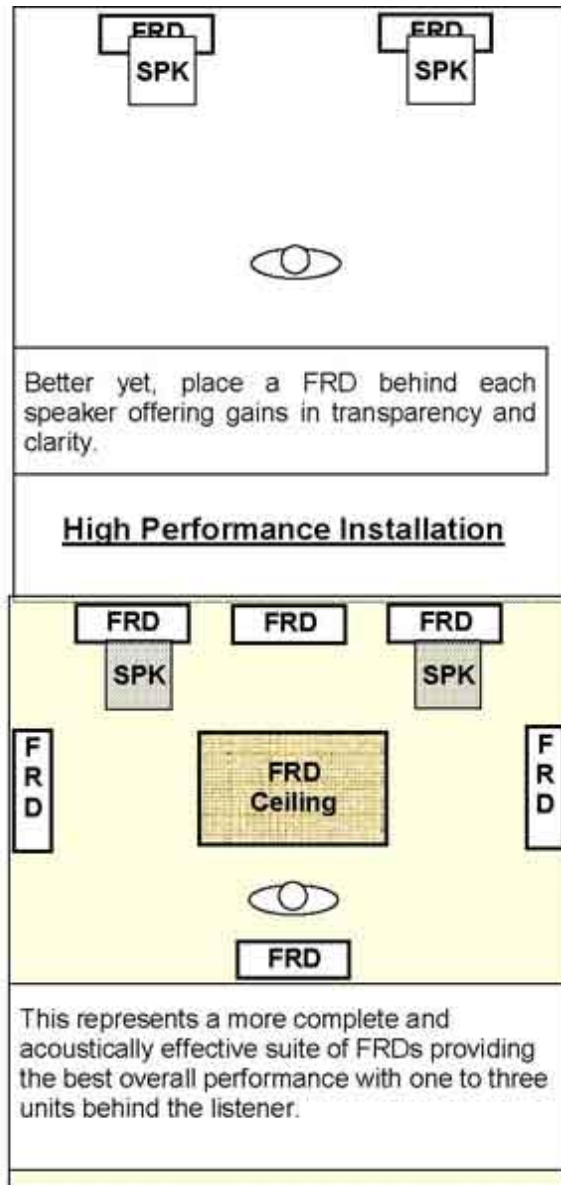
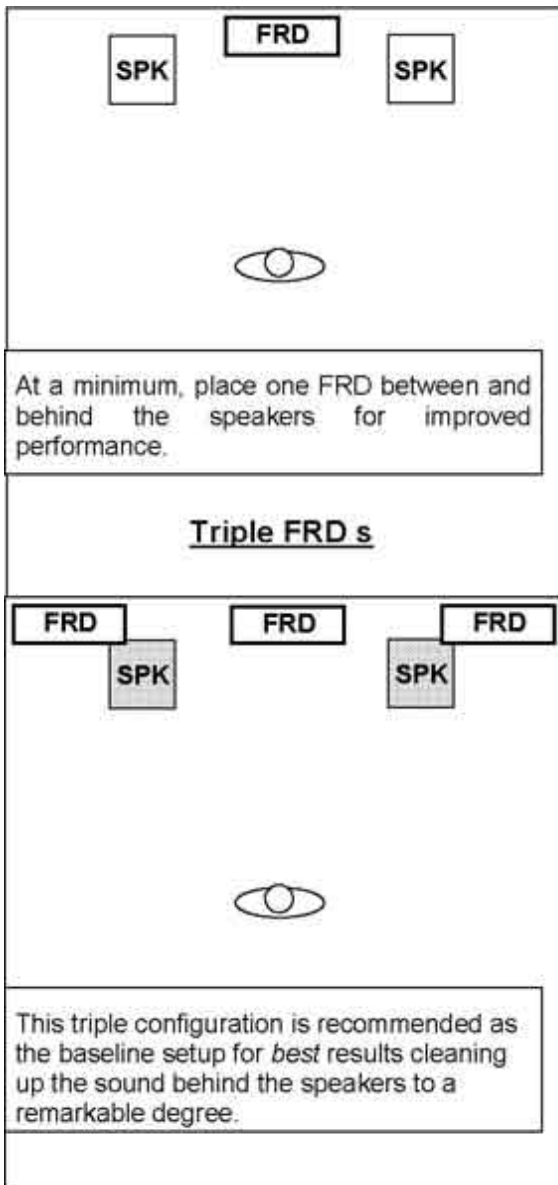
If you ever doubt that all this is necessary, just play source material with heavy bass content and move to the corners of your room behind the speakers. You'll be amazed at how the bass "loads up" the closer you move to the rear corners. Or simply walk about your room clapping your hands and noticing how the sound changes. Do that again after a Furutech Room Diffuser installation and hear the difference!

Following our placement suggestions, video and audiophiles all over the world discretely tune their listening areas using the Furutech Room Diffuser's controlled reflection and diffusion characteristics to smooth the frequency response for a dynamic, detailed, transparent, articulate and powerful sound.

*Furutech! Make A More Refined Connection!*

## **Furutech Room Diffuser (FRD) CONFIGURATIONS**

### **Single FRD Double FRD**



**NOTE:** The actual placement of Furutech Room Diffuser varies by differing room plans. Contact Furutech for further suggestions on tuning odd-size installations.

## FURUTECH ROOM DIFFUSER

### **Size**

603mm/24" W x 100mm/4" D x 1153mm/45" H (Excluding Footers)

### **Net Weight**

2.7 Kgs/6lbs

### **Material**

Top, bottom and rear sides all constructed using wood Front stands (Footers) • Wood Side plates (2) • Plastic Outer Surface • 100% Natural Silk Inner Dampers • Furutech Designed Air Foam Polystyrene