The Importance of Room Acoustics

Most people overlook the acoustics of the rooms and spaces that they use. Many architects and interior designers mostly design for the eyes and forget that what the ears hear is equally important, sometimes more so. Acoustics that are unsuitable for the main activity in the room or space compromise our social behaviour, our productivity, and even our general quality of life. We are affected by sound all the time—cognitively, psychologically, physiologically, and behaviourally—even though we aren’t conscious of it.

For example, poor acoustics in cafés and restaurants result in high sound levels that make conversation difficult. Or you might be attending religious services in a place of worship, but strain to clearly hear the messages that are meant for you, even though audio amplification is being used. Students sitting towards the rear of acoustically compromised classrooms can’t hear about 50% of what the teacher and other students say. Noisy classrooms also affect teachers adversely.

Many hifi and home theatre enthusiasts keep replacing components and accessories to improve the reproduced sound, not knowing that the listening room’s acoustics has by far the most effect on what they hear from the hifi or home theatre system. Even living rooms should have sound reflections controlled so that it is easier to hold conversations, and to watch the TV without having to turn up the sound.

The UNISON Acoustic Reflection Control System is a configurable, modular and adaptable system for controlling undesirable reflections of sound in different kinds of spaces and rooms. There are two primary components in the system. The first is a high-performance acoustic absorber panel that is easily configured to function either as a broadband bass trap or as a broadband absorber. The second component is a family of 2-D quadratic residue acoustic diffusors. The system offers numerous mounting options to meet practically all needs in spaces and rooms for many kinds of activities. These include:

• Stereo hi-fi rooms, multi-channel home theatres
• Multi-media and gaming rooms
• Music practice rooms
• Living rooms, dining rooms, and study rooms
• Classrooms, play areas, and laboratories
• Cafés, cafeterias, canteens, restaurants, and bars
• Places of worship, meeting and conference rooms
• Exercise rooms in fitness gyms
• Recording, mixing and video post-production rooms
• Music venues and clubs

Please drop us a line at the email below or give us a call to make an appointment to meet up. We are happy to have an obligation-free chat with you and visit the location that you think may need acoustic treatment. Like us on Facebook at www.facebook.com/audiorev.net.
**UNISON AAP-75 Acoustic Absorber Panel**

The UNISON AAP-75 is a hybrid acoustic panel that offers broadband bass trapping and user selectable mid/high-frequency absorption. It is intended for use in any room that needs to be acoustically improved for speech, music, and general aural comfort.

**UNISON W-B Wall Bracket (set of 3)**

The UNISON W-B wall bracket is used for mounting the UNISON AAP-75 acoustic absorber panel to walls and doors. The UNISON W-B holds an AAP-75 panel 70mm from the mounting surface. This air gap between panel and mounting surface improves the panel’s bass trapping performance.

**UNISON D-series Acoustic Diffusors**

The UNISON D-series of acoustic diffusors are for use in rooms where sound reflections need to be controlled while maintaining the live intensity of the sound. When used correctly diffusors help a room sound larger and more open with improved sonic clarity. This is achieved by scattering the sound over an expanded area rather than absorbing it.

All models of diffusors can be painted in any colour of your choice.

- **The UNISON D-C** is a patented, two-dimensional, four-octave, binary array diffusor. It is effective over the frequency range 250 Hz to 16kHz. The unique angled end-caps further control specular reflections above 4 kHz.

- **The UNISON D-D** is a patented organic quadratic diffusor that features unique organic curved surfaces to provide more even polar response across its effective frequency range of 599 Hz to 16+ kHz. Its unique organic curved surfaces further control specular reflections above 4 kHz.

- **The UNISON D-E** is a patented, two-dimensional, five octave binary array diffusor. It is effective over the range 125 Hz to 16 kHz. The unique angled end caps further control specular reflections above 4 kHz.

- **The UNISON D-F** is a patented, low-profile two-dimensional, binary array diffusor. It is effective over the frequency range 1 kHz to 16 kHz. The patented angled end caps further control specular reflections above 4 kHz.

**UNISON Fabric Covers**

Optional fabric covers for the AAP-75 acoustic absorber panel come in exciting solid colours. We can also print images onto the fabric covers for you. Select from our extensive set of royalty-free images, or provide us with a digital photo or image (minimum 5 megapixel resolution).

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**UNISON G Gobo (Kit)**

The UNISON G Gobo (‘go between’) is a mobile broadband acoustic management panel. The gobo carriage is designed so that the gobo rides very low to the ground. The high-quality, heavy-duty corrosion-resistant casters are non-marking, and are fully lockable for both swivelling and rolling. Two- and three-panel kits are available. A two-panel gobo is approximately 1200mm tall by 1200mm wide, while a three-panel gobo is approximately 1800mm tall by 1200mm wide.

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**UNISON F-S Floor Stand**

- Quickly reposition an AAP-75 to different locations.
- Use the AAP-75 without mounting it on the wall, while maintaining an air gap with the wall to maximise bass trapping performance.
- Easily change the height of an AAP-75 to suit specific uses.
- Easily reverse an AAP-75 to change the mid/high frequency absorption profile.

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**KEY FEATURES**

- Reversible — One face partially reflects mids/highs, the other face absorbs more mids/highs
- Multiple mounting options
- Strong, light-weight steel frame
- High-performance hybrid membrane core
- Removable fabric covers

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