

# What is VAE® Technology?

..... Switch the acoustics of your practice space like changing channels on a television .....



In the pursuit of music perfection, much attention is paid to posture, breathing, and proper fingering. Lost in the discussion is the role of what a performer *hears*. What we hear when practicing helps each musician refine their skill so that when the audience is seated and the conductor raises the baton, the notes played are flawless.

However, what a musician hears in a rehearsal room can be quite different than what they will hear in a larger recital hall or auditorium. The articulation and dynamics must change to suit the space.



Training the musician's ear to understand the sound behavior of larger performance spaces is where the magic of VAE technology comes in. VAE (Virtual Acoustical Environment) lets musicians transform the acoustics of their rehearsal space with a push of a button. We call it variable acoustics.

VAE brings you nine pre-programmed acoustical simulations – each one so perfect, you simply won't believe your ears. Push a button and you're transported to center stage. Push another, and you're sitting in a gothic cathedral. This amazing technology is available for practice rooms, studios, offices and rehearsal rooms.

## 9 distinct practice and performance environments:



Custom environments are available with VAE Rehearsal system

VAE® Practice	Studio VAE®	VAE® Rehearsal
<b>Ideal for</b> Music education programs for individual and small group practice.	<b>Ideal for</b> Music faculty coaching studios and existing built-in practice rooms.	<b>Ideal for</b> Instrumental and choral music rehearsal rooms.
<b>Key features</b> Sound isolated, free-standing practice room with variable acoustic environments and record/playback capability. Can be moved and reconfigured as needed.	<b>Key features</b> Nine different acoustical environments with free-standing control panel pedestal at your fingertips. Includes record/playback capability.	<b>Key features</b> Professional grade speakers, microphones, and digital signal processing that transforms your rehearsal space into performance environments. Includes record/playback capability. Turn-key installation.
<b>Pre-set programs</b> 9 pre-set acoustical environments: Practice Room, Baroque Room, Medium Recital Hall, Large Recital Hall, Small Auditorium, Medium Auditorium, Large Auditorium, Cathedral, and Arena.	<b>Pre-set programs</b> 9 pre-set acoustical environments: Practice Room, Baroque Room, Medium Recital Hall, Large Recital Hall, Small Auditorium, Medium Auditorium, Large Auditorium, Cathedral, and Arena.	<b>Pre-set programs</b> 8 pre-set environments: Baroque Room, Medium recital Hall, Large Recital Hall, Small Auditorium, Medium Auditorium, Large Auditorium, Cathedral, and Arena. Includes 1 customized performance space of school's choosing.
<b>Size configurations</b> Select sizes starting at 5'8" x 5'8" (1.5m x 1.5m)	<b>Size configurations</b> Suitable for studios or practice rooms up to 200 sq. ft. in size.	<b>Size configurations</b> Adaptable to most music rehearsal rooms.

**The Ultimate Green Room**  
By precisely simulating the acoustics of your center stage, VAE creates the perfect environment for pre-concert warm-up. There's simply no better environment for aspiring and professional musicians to prepare for a demanding performance.



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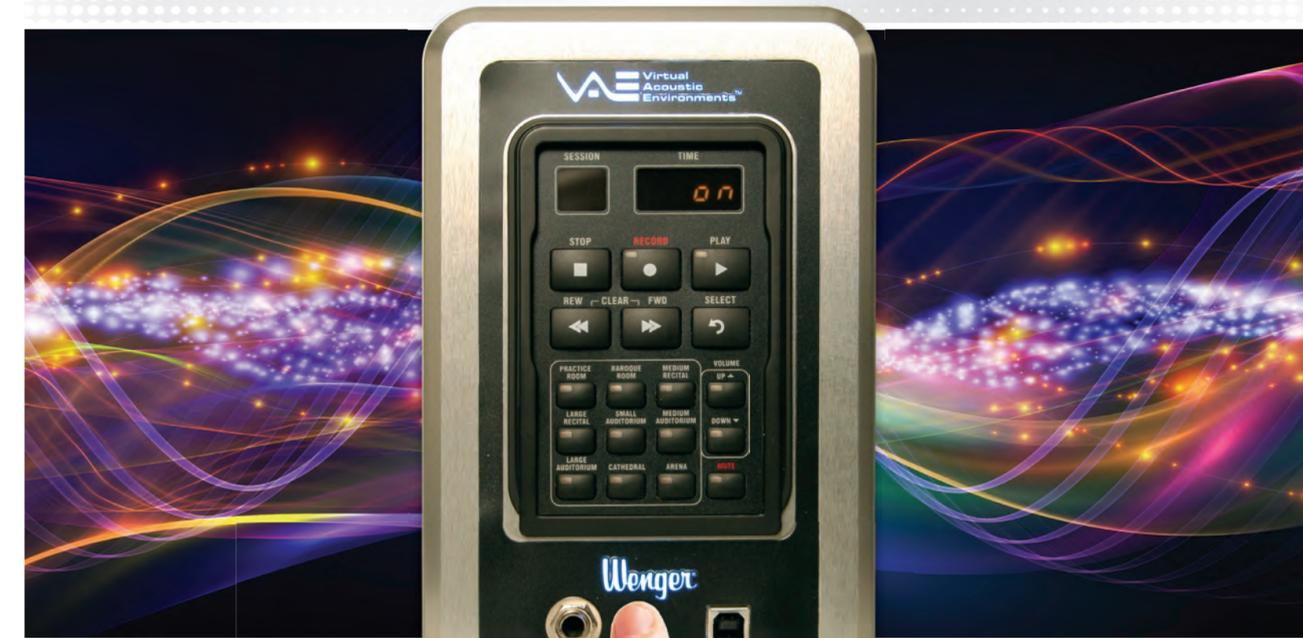
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**Wenger®**  
Your Performance Partner

# You won't believe your ears.



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# SoundLok® Sound-Isolation rooms with VAE® Technology

..... Add a few thousand square feet to your practice room with the push of a button .....



VAE Practice is the solution for individual or small groups of instrumentalists and vocalists. Built into Wenger SoundLok® Sound Isolation Rooms, VAE technology lets you master the development of your instrument or voice in an effective and inspiring environment. Pick a concert hall to prepare for an upcoming solo, a dry room to compare how your articulation is affected, or a spacious room for breath support. It's your choice.

Wenger SoundLok rooms have GUARANTEED sound isolation (NIC Rating of 63) so you can concentrate fully on your music – without disturbing others. And SoundLok's sound isolation is 25% quieter than any other room on the market. Step in, push a button, and be transported to a new acoustical environment.



SoundLok rooms are modular, set up quickly, and are relocatable and reconfigurable. The panels interlock without adhesives or caulking and all lighting, wiring and ventilation can be incorporated into the room. A full-length window in the door improves security and supervision. It's the perfect practice environment that's so effective it will have students lining up for their turn to practice.

VAE incorporates the latest state-of-the-art music practice technology. VAE technology offers realistic acoustical simulations, creating the sensation of being enveloped by the sound and enabling musicians to hear themselves in various performance venues.



*"The active acoustics are a big improvement from our old practice rooms. They help me to emanate a bigger sound. The record-playback setting is also very useful. My teacher always recommends that we should record ourselves so we can hear what needs to be fixed."*

– Pam Schroeder, Student, University of Iowa, Iowa City, Iowa



The correct amount of absorption and diffusion is built-in so the musician can clearly hear the best possible sound.



Schools like the University of Boston have installed SoundLok rooms of various sizes to accommodate their growing music program. Many rooms have VAE technology installed.

**GREENGUARD** Like many Wenger products, SoundLok rooms are GREENGUARD certified to protect indoor air quality.



**QR CODE**

Snap this QR code to learn more about SoundLok® on YouTube!



# Studio VAE®

..... Adding VAE technology to an existing room .....



Studio VAE is an affordable, easy-to-install package for your own small practice or teaching space. The Studio system components offer all the same features and technology of the VAE Practice in a kit that can be installed in just about any room less than 200 square feet. Wenger's Studio VAE allows you to convert an existing faculty studio or built-in practice room to one that incorporates the acoustic simulation capabilities of our VAE technology.

While quality sound isolation rooms like SoundLok are recommended, when new installation or construction are unfeasible, Studio VAE is a great option. Your students will be amazed, they will be inspired to practice more!

The following components are included: VAE digital processor, four speakers, two microphone wall absorber panels, control panel, all cables and speaker wire for complete installation.



## Record and Playback Equipped

VAE technology features built-in digital recording and playback, which dramatically enhances the educational value of the VAE system. VAE will:

- Allow educators to easily follow the assessment strategy recommended in the National Standards for Music Education.
- Increase your ability to carefully evaluate the progress of more students in less time.
- Provide the ability to upload music files or download practice sessions to a computer or other recording device.
- Enable musicians to practice with uploaded accompaniments and other pre-recorded pieces.



*"The biggest advantage of the Studio VAE is providing students the opportunity to practice and hear themselves in different acoustical environments. Our recital hall is heavily scheduled, so students only have limited opportunities to get accustomed to that environment. Students can easily download their own recordings or accompaniment parts from the Studio VAE directly to their laptops or flash drives. I also use it for evaluating students."*

– Robert Smith, Associate Professor of Voice and Vocal Literature, St. Olaf College, Northfield, Minnesota



## CONNECT TO YOUR LAPTOP

A USB connection to your computer or laptop makes it easy to upload accompaniments or download practice sessions.



## CONVENIENT FOOT SWITCH

The optional foot switch provides hands-free record and playback from anywhere in the room.

# VAE® Rehearsal

..... Transport an entire rehearsal room to the auditorium and back before the bell rings .....



School auditoriums are heavily scheduled places. So trying to find time for your choral and instrumental groups to practice on stage can be difficult. The same goes when you are preparing for a special occasion in a large performance venue. Practicing in the dry environment of your rehearsal room can be limiting – unless you have VAE Rehearsal.

Easing the transition from the rehearsal to the performance environment allows students to focus

more on the skills and habits they've developed in rehearsal and less on the unfamiliar performance space. VAE Rehearsal comes with the same capabilities as all our VAE systems and includes the ability to be programmed to mirror the acoustics of your own auditorium.



*"From the beginning, part of my interest in the VAE Rehearsal system was the ability to have a "Wayzata Auditorium" setting. The Wenger acousticians and engineers measured the acoustic environment in our auditorium and emulated that in our rehearsal room, making a smooth transition for our young musicians. Now when we're rehearsing in our orchestra room, we can feel like we're rehearsing on our stage. Or we can choose an acoustically drier environment if we like. The VAE Rehearsal gives us many options."*

– Mark Gitch, Orchestra Director, Wayzata High School, Plymouth, Minnesota

## HERE ARE JUST THREE OF THE NINE RICH ENVIRONMENTS THAT VAE CAN TAKE YOU TO:



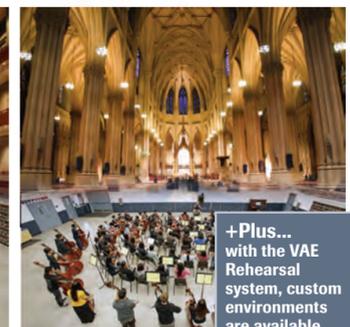
## BAROQUE ROOM

Expand the breadth of your musicians' sound to mimic the open and reflective space of a baroque hall.



## LARGE AUDITORIUM

Preparing for an important performance that takes your students to a professional venue? Let VAE show your group what this large volume of space does to their sound!



## CATHEDRAL

It's a special occasion when your group can perform in such an impressive space. VAE can help you prepare for the unique acoustics found there.

**+Plus...** with the VAE Rehearsal system, custom environments are available as well!