VAST™ ACOUSTIC CHAMBER SOLUTIONS

VIRTUAL ACOUSTIC SOUNDSCAPE TECHNOLOGY

BEYOND MEASURE.™

ETS·LINDGREN®
An ESCO Technologies Company

THE NEWEST IN ACOUSTIC TESTING TECHNOLOGIES FROM THE TRUSTED EXPERT IN TEST AND MEASUREMENT

AS THE LEADER IN ACOUSTIC TEST AND MEASUREMENT, ETS-LINDGREN HAS THE INNOVATIVE SOLUTIONS TO MEET ALL YOUR TESTING NEEDS

FEATURES:

- SoundSecure Chamber Panels
- Touch-screen Control Interface Standard; Customized Interface Optional
- Walk-in or Reach-in Configurations
- Virtual Soundscape
- Active System Allows for Unlimited Sound Field Options
- Quick Change
- Live Augmentation

Many devices require testing in acoustically controlled environments with specific reverberation times and background noise levels. These spaces are either designed for a single purpose with no testing flexibility or require manual reconfiguration using a variety of furnishings and acoustic treatments to change the sound field characteristics. Often, real world rooms are the only available test space when a properly engineered environment is not available. Each of these solutions presents a compromise in repeatability, facility utilization, or time.

To solve these problems, ETS-Lindgren developed a new chamber called VAST™ (Virtual Acoustic Soundscape Technology). VAST is built on ETS-Lindgren's SoundSecure™ chamber panel system. The panels are embedded with arrays of microphones and loudspeakers that are processed through a high-performance real time DSP engine to provide a virtual soundscape inside the chamber. VAST can simulate any room that is larger than the physical dimensions of the chamber. If specific reverberation times are desired, those can be programmed as well. The soundscape can be changed instantly using a touch screen interface. (Note: Custom interface and software integration is available.) Background noise and other acoustic signals can be played back through the system to comply with various test standards or to simulate real-world environments.

There are two standard models of VAST chambers, a walk-in version and a reach-in version. The walk-in version can simulate any environment larger than the chamber's physical dimensions. The reach in version can simulate smaller environments such as automobile interiors. Additionally, custom VAST chambers can be designed to meet specific applications or design goals.

Specifications

Model	Overall Dimensions	Interior Working Area
Walk-in	4.78 m x 4.17 m x 3.18 m [A, B]	4.27 m x 3.66 m x 2.74 m
	15 ft 8 in x 13 ft 8 in x 10 ft 5 in	14 ft 0 in x 12 ft 0 in x 9 ft 0 in
Reach-in	2.24 m x 2.24 m x 2.24 m	1.73 m x 1.73 m x 1.65 m
	88 in x 88 in x 88 in	68 in x 68 in x 65 in

[A] Excludes wall or ceiling mounted ventilation silencers; allow an additional 30.5 cm (12 in).
[B] Excludes optional seismic bracing; allow an additional 35.6 cm (14 in) around the perimeter.

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9/18 50 RP/RR © 2018 ETS-Lindgren v1.0