

RF/Microwave Test Labs
**General Purpose
Antenna Test Labs**

FEATURES

- Turnkey Systems
- 2 Different Configurations Available
 - AMS-8100
Compact Size Rectangular Anechoic Chamber
4.30 m L x 2.60 m W x 2.60 m H
(14 ft. x 8.5 ft. x 8.5 ft.)
Frequency Range: 800 MHz - 6 GHz
 - AMS-8200
Full Size Rectangular Anechoic Chamber
7.32 m L x 3.66 m W x 3.66 m H
(24 ft. x 12 ft. x 12 ft.)
Frequency Range: 700 MHz - 6 GHz



*ETS-Lindgren Antenna Test Lab with
Optional Test Instrumentation*

ETS-Lindgren's General Purpose Antenna Test Labs are designed for test and measurement applications of general antenna devices. Both rectangular and tapered anechoic chambers perform at higher frequencies when optional antennas and antenna launch systems are purchased.

The AMS-8100 is offered as an entry-level system, providing basic azimuth positioning capability for automated polar patterns. It is coupled with our EMQuest EMQ-100 Lite Antenna Measurement Software for scalar and vector pattern tests of passive antennas. With the Lite version of EMQuest, it is possible to perform fully automated 2-D and semi-automated 3-D (spherical) pattern measurements using a variety of test equipment.

The AMS-8200 system provides spherical positioning capability for fully automated polar and spherical antenna pattern measurements.

This system is coupled with EMQ-100 APM Software having 2-D (polar) and 3-D (spherical) pattern measurement capabilities as well as frequency response measurements for both passive antennas and active devices such as wireless mobile stations (cell phones). A wide range of fully parameterized test method allows extremely versatile testing of both vector and scalar quantities in either transmit or receive mode. Post-processing capabilities include calculation of antenna properties such as half-power beamwidth, directivity, gain, radiation efficiency, and total radiated power.

Advanced graphing capabilities allow acquired data to be displayed in a variety of 2-D and 3-D formats. Tabular data can be exported to Microsoft Excel™ spreadsheets. Reports can be exported to PDF files, or saved in RTF format for import to Microsoft Word™.

ETS-Lindgren has years of experience in the manufacturing and testing of antennas and antenna test systems. We use that same expertise in the manufacture and installation of all of our Antenna Test Labs. With continued involvement in a wide range of standardization efforts, we remain at the forefront of research and development into electromagnetic and performance testing of wireless devices. Please see our Over-The-Air Test Lab datasheet for more information.

Baseline package for AMS-8100

- RF-shielded, anechoic rectangular chamber, 4.30 m L x 2.60 m W x 2.60 m H (14 ft. x 8.5 ft. x 8.5 ft.), including RF shielding, absorber and installation
- Shield Test per MIL-STD-285
- ETS-Lindgren Model 2005 Light Duty Azimuth Positioner with polystyrene foam pedestal and integrated RF rotary joint
- ETS-Lindgren Model 3164-04 Diagonal Dual Polarized Horn antenna with antenna set-up panel, 700 MHz - 6 GHz
- Low Loss RF cables from Azimuth positioner to a feed-through panel at the shield
- EMQuest™ EMQ-100 Lite Antenna Measurement Software
- System training video
- Software support and upgrades for one year

Baseline package for AMS-8200

- RF-shielded, anechoic rectangular chamber, 7.32 m L x 3.66 m W x 3.66 m H (24 ft. x 12 ft. x 12 ft.), including RF shielding, absorber and installation
- Shield Test per MIL-STD-285
- ETS-Lindgren Medium Duty Multi-Axis Positioning System (MAPS™) with Model 2090 controller
- ETS-Lindgren 3164-04 Diagonal Dual Polarized Horn antenna with antenna set-up panel, 700 MHz - 6 GHz
- Low Loss RF cables from MAPS positioner to a feed-through panel at the shield
- EMQuest™ EMQ-100 Antenna Measurement Software with appropriate desktop computer
- Turnkey software and hardware integration and system training
- Free-space VSWR Quiet-Zone performance test
- Software support and upgrades for one year

Optional Equipment

- RF test equipment with full integration to Antenna Test Lab. Various options available
- Light Duty Multi-Axis Positioning System (MAPS™) Model 2010
- Medium Duty Multi-Axis Positioning System (MAPS™) Model 2015
- Heavy Duty Multi-Axis Positioning System (MAPS™) Model 2020
- Shielded control room
- Structural design calculations and certification sealed by a registered professional engineer
- ETS-Lindgren Model 3164-04 Diagonal Dual Polarized Horn antenna with antenna set-up panel for tapered chamber for improved quiet zone performance from 2 GHz - 6 GHz
- ETS-Lindgren Model 3164-05 Quadridge Horn antenna (Frequency Range 2 GHz - 18 GHz) with antenna set-up panel for rectangular and tapered chambers
- ETS-Lindgren Model 3126 series sleeve dipoles for range calibration
- ETS-Lindgren Model 3127 Resonant Loop Antennas with other center frequencies
- ETS-Lindgren Standard Gain Horns for range calibration
- Laptop mounting adapter for Medium Duty MAPS mast
- Free-space mounting adapter for Medium Duty MAPS mast
- Center rotate SAM phantom mounting adapter for Medium Duty MAPS mast