

SELECTION

521x, 522x Series

Our 521x and 522x Series are benchtop systems typically used for testing small wireless devices. The interiors of both models are lined with premium RF anechoic absorber on all six interior surfaces. Welded construction and a dual latched, zero perimeter lid with RF gasketing provides typical RF isolation of 80 dB. The 521x and 522x Series both include near field coupling devices.



523x Series

Our 523x Series is an upright benchtop system for testing larger sized DUTs. Welded construction and a door with a progressive RF gasket compression mechanism provides typical RF isolation of 120 dB. The zero perimeter door means that bigger DUTs can be more easily placed inside and staged for testing.



524x, 528x Series

Our 524x and 528x Series consists of upright, portable test enclosures and are ideal for high performance and wireless EMI/RFI testing. Most of the 524x and 528X Series are standard with the maximum performance Double Electric Contact (DEC) sealing door, with typical RF isolation to 120 dB (most models).



Custom Products

Do you need something not listed here? We have the engineering and manufacturing resources to create a custom solution for your exact needs, whether it's one system or several hundred. We also have other types of test enclosures (reverberant, TEM, GTEM,) as well as tapered, compact and full-sized chambers.



Accessories

We offer a wide selection of connector panels, connectors, feedthroughs, filters, and air vents.

Specifications and Options											S= Standard	O= Optional	N/A= Not Applicable
MODEL #	DIMENSIONS (O/D) L X W X H	OPENING DIMENSIONS	OPENING TYPE	SHIELDING PERFORMANCE	CONSTRUCTION	MOUNTING	ABSORBER LINED	INTERNAL RF COUPLER	POWER/SIGNAL LINE FILTERS	REMOVABLE I/O CONNECTOR PANEL	AIR VENTS (RF WAVEGUIDE)		
5201	1200 x 1200 x 2400 mm	500 x 600 mm	Top Latching Lid	>80 dB @ 700 MHz - 2 GHz	Aluminum, Welded Seam		S	S	0	S	N/A		
5211	495 x 356 x 239 mm	445 x 305 mm	Top Latching Lid	>80 dB @ 700 MHz - 2 GHz	Aluminum, Welded Seam		S	S	0	S	N/A		
5225-1	610 x 711 x 432 mm	559 x 660 mm	Front Swing Door	>80 dB @ 700 MHz - 2 GHz	Aluminum, Welded Seam		S	S	0	S	N/A		
5225-2	610 x 711 x 432 mm	559 x 660 mm	Front Swing Door	>80 dB @ 700 MHz - 2 GHz	Aluminum, Welded Seam		S	S	S	S	0		
5230	600 x 500 x 500 mm	400 x 400 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	Steel, Welded Seam		0	0	0	0	0		
5231	1400 x 800 x 1520 mm	800 x 800 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	Steel, Welded Seam		0	0	0	0	0		
5232	1280 x 1120 x 1840 mm	900 x 1600 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	S101 Steel Panel		0	0	0	0	0		
5235	440 x 500 x 500 mm	400 x 400 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	Steel, Welded Seam	19 in. Rack Mount	0	0	0	0	0		
5236	680 x 750 x 1310 mm	600 x 1230 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	Steel, Welded Seam	Rolling Frame	0	0	0	0	0		
5230-18	450 x 450 x 450 mm	350 x 350 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	Steel, Welded Seam		0	0	0	0	0		
5230-24	600 x 600 x 600 mm	500 x 500 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	Steel, Welded Seam		0	0	0	0	0		
5230-30	750 x 750 x 750 mm	650 x 650 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	Steel, Welded Seam		0	0	0	0	0		
5230-36	900 x 900 x 900 mm	800 x 800 mm	Front Swing Door	110 dB @ 1 MHz - 5 GHz	Steel, Welded Seam		0	0	0	0	0		
5240-18	450 x 450 x 450 mm	350 x 350 mm/DEC Type	Front Swing Door	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Copper Clad Exterior		0	0	0	0	0		
5240-24	600 x 600 x 600 mm	450 x 450 mm/DEC Type	Front Swing Door	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Copper Clad Exterior		0	0	0	0	0		
5240-2442	600 x 1250 x 600 mm	450 x 450 mm/DEC Type	Front Swing Door	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Copper Clad Exterior		0	0	0	0	0		
5240-30	750 x 750 x 750 mm	600 x 600 mm/DEC Type	Front Swing Door	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Copper Clad Exterior		0	0	0	0	0		
5240-36	900 x 900 x 900 mm	600 x 600 mm/DEC Type	Front Swing Door	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Copper Clad Exterior		0	0	0	0	0		
5240-48	1200 x 1200 x 1200 mm	900 x 900 mm/DEC Type	Front Swing Door	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Copper Clad Exterior		0	0	0	0	0		
5241-12	300 x 300 x 300 mm	250 x 250 mm/Plate Type	Front Latching Plate	100 dB @ 1 MHz - 1 GHz	Copper Clad Exterior		0	0	0	N/A	0		
5245	430 x 430 x 430 mm	250 x 250 mm/Plate Type	Front Latching Plate	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Aluminum, Welded Seam	19 in. Rack Mount	0	0	0	N/A	0		
5246	890 x 890 x 890 mm	450 x 450 mm/DEC Type	Front Swing Door	100 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Series 81 Construction		0	0	0	0	0		
5247	863 x 750 x 2032 mm	500 x 500 mm/DEC Type	Latching Swing Door	100 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Aluminum, Pan Type		S	S	S	S	0		
5249	255 x 300 x 150 mm	Shielded Lid	Top Latching Lid	70 dB @ 1 MHz - 3 GHz	Stainless Steel Welded Seam		0	0	0	N/A	0		
5281-36	900 x 900 x 900 mm	600 x 600 mm/DEC Type	Front Swing Door	100 dB @ 1 GHz - 2.4 GHz	Series 81, Steel Clad Int & Ext		0	0	0	0	0		
5281-48	1200 x 1200 x 1200 mm	900 x 900 mm/DEC Type	Front Swing Door	100 dB @ 1 GHz - 2.4 GHz	Series 81, Steel Clad Int & Ext		0	0	0	0	0		

DECIDING WHAT YOU NEED

Answer these few simple questions to select the test cell that best fits your needs:

What are the dimensions of the device (DUT) you want to test?

Measure the length, width, and height and remember to leave room for cable connections, etc. We have a wide variety of standard-sized cells that should fit most common requirements, or we can create a customized solution for you.

What frequency range will you be testing?

Frequency is important in selecting your coupler and determining the type of shielding material and absorber used for signal attenuation.

What level of shielding effectiveness is required?

We offer a variety of shielding materials and RF sealing techniques. Shielding effectiveness levels of up to 120 dB can be provided.

Do you want to test your wireless device using over-the-air coupling or direct connect cable, or both?

We have several standard wireless coupler solutions that span frequencies from 400 MHz to 8 GHz. Some couplers include signal polarization. Our engineering staff can help with more specific requirements.

What I/O ports will be needed?

Our test cells use a modular I/O panel with several standard connector sets and signal filters. Blank panels are available for custom setups.

Will you need a power filter?

Filtered power provides a less noisy RF test environment and maintains shielding effectiveness. Our standard filters are 5 A and 30 A rated.

Is ventilation required?

If the operation of your EUT is thermally sensitive, passive or forced ventilation offers a solution. Our ventilation packages include RF honeycomb venting so signals on the inside remain in the cell, and ambient signals on the outside can't intrude.

Does the DUT require special mounting?

A mounting fixture is standard on some of our models and helps to improve measurement repeatability. We have experience creating special fixtures including the ability to place the DUT in different planes (X, Y, Z) during the test.

Does the test cell require special mounting?

Most of our test cells are used in the lab on a bench or desktop. However, we can provide you with rack mounting or a moveable cart.

About ETS-Lindgren

ETS-Lindgren is an international manufacturer of components and systems that detect, measure, and manage electromagnetic, magnetic, and acoustic energy. The company's products are used for electromagnetic compatibility (EMC), microwave and wireless testing, electromagnetic field (EMF) measurement, radio frequency (RF) personal safety monitoring, and control of acoustic environments.

Headquartered in Cedar Park, Texas, ETS-Lindgren has manufacturing facilities in North America, Europe and Asia. The company is a wholly owned subsidiary of ESCO Technologies, a leading supplier of engineered products for growing industrial and commercial markets. ESCO is a New York Stock Exchange listed company (symbol ESE) with headquarters in St. Louis, Missouri.

Corporate Headquarters

1301 Arrow Point Drive
Cedar Park, Texas 78613 US
Phone +1.512.531.6400
Fax +1.512.531.6500
info@ets-lindgren.com

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ETS-LINDGREN™

An ESCO Technologies Company

www.ets-lindgren.com

Dimensions provided in this brochure are nominal exterior dimensions for standard chambers. Dimensions will vary based on size of quiet zone and your individual requirements. Information presented is subject to change as product enhancements are made.
Contact the ETS-Lindgren Sales Department for current specifications.

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RF TEST ENCLOSURES SYSTEMS FOR RF ISOLATED MEASUREMENT



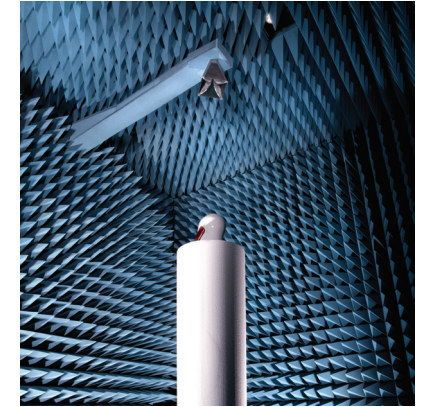
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EXPERIENCE

Our chamber technology is in every test cell we build!



ETS-Lindgren brings together more than 70 years of experience and expertise in designing and building RF shielding and doors, chambers, anechoic absorber, antennas, EMF sensing and acoustic management systems.

The design and manufacture of our test cells is approached with a complete understanding of every component part, the scientific principles of each, and the ability to successfully integrate them for optimal performance.

Some of our milestones include:

- The first commercially produced RF shielded room and door
- The first commercial EMC chamber to produce results accepted by the FCC
- The world's largest anechoic chamber and shielded door
- Numerous patents for RF shielding, shielded doors, anechoic absorber, antenna design, and GTEM cell and EMF sensor technology
- More than 10,000 shielded enclosure installations worldwide

With over 750 people globally, ETS-Lindgren has depth in engineering, project management, installation and customer support. And our people are provided with the latest technology and equipment to give them the best in problem solving and communication technology. Whether you need one test cell or hundreds, benefit from a company that can give you a strong supportive team- ETS-Lindgren.

ETS-Lindgren's labs are A2LA and NVLAP accredited. We are also a CATL, and an ISO 9001 certified company.