

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

1. 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.

2. What frequency range will you be testing?

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

3. 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.

4. 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.

5. 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.

6. Will you need a power filter?

Filtered power provides a less noisy RF test environment and reduces measurement uncertainty. Our standard filters are 5 A and 30 A rated.

7. Is ventilation required?

If the operation of your DUT 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.

8. 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.

9. 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 movable cart.

About ETS-Lindgren

ETS-Lindgren is the proven world leader for components and systems that measure, shield and control electromagnetic and acoustic energy. We provide solutions for EMC/RF/EDF test and measurement applications as well as medical, industrial and government RF shielding requirements. Our product line ranges from simple benchtop diagnostic tools to fully integrated turnkey facilities.

RF enclosures and test cells have been an important part of our business since the early 1960s. Today we incorporate technology learned from our RF anechoic chamber, absorber, and antenna products, into our test cells.

As part of ESCO Technologies Corporation, ETS-Lindgren has the financial strength to meet our commitments, both today and tomorrow. A leading supplier of engineered products for growing industrial and commercial markets, ESCO is a New York Stock Exchange listed company (symbol: ESO) with headquarters in St. Louis, Missouri.

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Contact the ETS-Lindgren Sales Department for current specifications.

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TEST & MEASUREMENT RF TEST CELLS BENCHTOP SYSTEMS FOR RF ISOLATED MEASUREMENT



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 absorbers, 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 600 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 pursuing ISO 9000 certification.

ETS-LINDGREN™
An ESCO Technologies Company

5210, 5220 Series

Our 5210 and 5220 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 80dB. The 5210 and 5220 Series both include near field coupling devices.



5230 Series

Our 5230 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.



5240 Series

The 5240 Series is an upright benchtop system constructed with panels having a copper clad exterior surface. The door used on this series is a maximum performance double electrical contact (DEC) RF sealing door with two toggle action-overs-center draw latches. Typical RF isolation is 120 dB for 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 cells (reverberant, TEM, GTEM) as well as tapered, compact and full-sized chambers.



Accessories

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

Specifications and Options

Model #	Dimensions (JGD) L x W x H	Opening Dimensions	Opening Type	Shielding Performance	Construction	Mounting	Absorber Lined	Internal RF Coupler	Power / Signal Line Fibers	Removable I/O Connector Panel	Air Vents (RF W/ingate)
5201	1200 x 1200 x 2400 mm	800 x 600 mm	Top hinged lid	>80 dB @ 700 MHz - 2 GHz	Aluminum, welded seams		Y	Y	O	Y	NA
5211	495 x 350 x 250 mm	445 x 305 mm	Top hinged lid	>65 dB @ 700 MHz - 2 GHz	Aluminum, welded seams		Y	Y	O	Y	NA
5225	495 x 350 x 250 mm	445 x 305 mm	Top hinged lid	>65 dB @ 1 MHz - 3 GHz	Aluminum, welded seams		Y	Y	O	Y	NA
5225-1	495 x 350 x 250 mm	445 x 305 mm	Top hinged lid	>65 dB @ 700 MHz - 2 GHz	Aluminum, welded seams		Y	Y	O	Y	NA
5225-2	810 x 711 x 452 mm	550 x 660 mm	Front swing door	>65 dB @ 700 MHz - 2 GHz	Aluminum, welded seams		Y	Y	O	Y	NA
5235	600 x 500 x 500 mm	400 x 400 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams		O	O	O	O	O
5231	1400 x 800 x 1020 mm	800 x 600 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams		Y	O	O	O	O
5232	1260 x 1120 x 1940 mm	900 x 1800 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams		O	O	O	O	O
5238	440 x 900 x 1800 mm	300 x 420 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams		O	O	O	O	O
5238	680 x 750 x 1310 mm	800 x 1230 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams	10 in rack mount Pulling frame	O	O	O	O	O
5238-18	480 x 480 x 480 mm	330 x 380 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams		O	O	O	O	O
5238-24	600 x 600 x 600 mm	500 x 500 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams		O	O	O	O	O
5238-30	750 x 750 x 750 mm	650 x 650 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams		O	O	O	O	O
5238-36	900 x 900 x 900 mm	800 x 800 mm	Front swing door	120 dB @ 1 MHz - 10 GHz	Steel, welded seams		O	O	O	O	O
5245-18	480 x 480 x 480 mm	300 x 300 mm / DEC Type	Front swing door	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Copper clad exterior		O	O	O	Y	O
5245-24	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		O	O	O	Y	O
5245-30	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		O	O	O	Y	O
5245-36	900 x 900 x 900 mm	800 x 800 mm / DEC Type	Front swing door	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Copper clad exterior		O	O	O	Y	O
5245-48	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		O	O	O	Y	O
5245-12	300 x 300 x 300 mm	250 x 250 mm / Flare Type	Front hinged lid	100 dB @ 1 MHz - 1 GHz	Copper clad exterior		O	O	O	Y	O
5245	430 x 430 x 430 mm	250 x 250 mm / Flare Type	Front hinged lid	120 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 2.4 GHz	Aluminum, welded seams	10 in rack mount	Y	O	O	Y	O
5247	880 x 880 x 1810 mm	450 x 450 mm / DEC Type	Front swing door	100 dB @ 1 MHz - 1 GHz; 100 dB @ 1 GHz - 3 GHz	Series 81 construction		O	O	O	Y	O
5248	325 x 300 x 180 mm	Unhinged Lid	Top hinged lid	70 dB @ 1 MHz - 3 GHz	Stainless steel welded seams		O	O	O	Y	O