

Commercial EMC Chambers

All Raymond EMC's chambers are built using our modular RF shielded enclosure system and can include any of our RF shielded doors. We choose from a wide selection of absorber materials and ferrite tile to best suit the application.

The logo for QuietChamber, featuring a stylized 'R' icon followed by the text 'QuietChamber' in a bold, sans-serif font, with 'by REMC' in a smaller font below it.

Key features

Full turnkey solutions

Raymond EMC provides turnkey solutions that start with design and continue through to onsite installation and RF Shielding Effectiveness certification. We also build in all electrical, HVAC, life-saving system and seismic requirements.

Versatile design capability

Raymond EMC's modular system is adaptable, and can be configured to meet unique client requirements.

Client satisfaction

We provide unmatched client care and product support through the design, fabrication and installation process. Our dedication to excellence leads to long-term customer relationships.

Complete line of options:

- RF vestibules
- RF power line filters
- Internal electrical distribution
- RF signal filters
- Honeycomb waveguide air vents
- Bulkhead connector panels
- Waveguide pipe penetrations
- Architectural finishes
- Functional finishes
- Turntables
- EMC benches
- Antenna masts
- Control rooms
- Custom frequency ranges
- **Contact us for more options**

Typical chamber performance

Normalized site attenuation (NSA)	+/- 4 dB, 30 MHz to 1 GHz
Site voltage standing wave ratio (sVSWR)	< 6 dB, 1 GHz to 18 GHz
Field uniformity	75% of 16 points, ≤ 6 dB, .5m x .5m

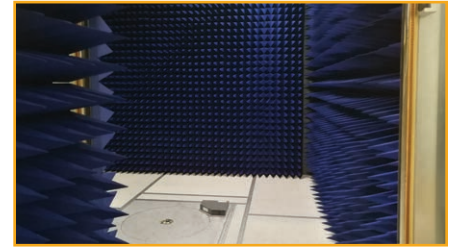
RF shielding performance

Magnetic	55 dB @ 10 kHz; 95 dB @ 200 kHz; 100 dB @ 1 MHz
Electric	100 dB from 15 kHz to 100 MHz
Planewave	100 dB from 100 MHz to 1 GHz
Microwave	100 dB at 10 GHz

Compliance with industry standards

IEC 61000-4-21	Testing and measurement techniques – radiated, radio-frequency, electromagnetic field immunity test
CISPR 16	Specifies equipment and methods for measuring disturbances and immunity to them at frequencies above 9 kHz

A range of adaptable chambers



Pre-compliance

Companies and testing authorities use our pre-compliance chambers to adjust and adapt products during research and development:

- **QuietChamber™ Compact** enables emissions measurements at a 3-meter distance, and compliant immunity measurements.
- **QuietChamber™ Ultra Compact** enables measurements at a 1-meter distance.

Compliance

Our compliance chambers demonstrate that products meet industry standards. Raymond EMC provides the following custom chambers, which enable compliant measurements at their respective distances:

- **QuietChamber™ 3m**
- **QuietChamber™ 5m**
- **QuietChamber™ 10m**

Two-year warranty

All Raymond EMC chambers come with a two-year limited warranty against defective materials and craftsmanship and to retain the specified RF shielding effectiveness. Extended warranties are available.