DefenseShield (RF) Shielded Cabinet

SKU#: ECX-RFC-61342

Provides industry-leading radio frequency (RF) shielding mitigating signals emanating from or interfering with electronics within the enclosure. The cabinet features lightweight, rugged construction in a standard server rack form factor allowing installation in an office, lab, or datacenter applications.

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APPLICATIONS

The RF Shielded Cabinet acts as a faraday cage preventing interfering signals from entering or exiting the enclosure. A number of applications require RF shielding.

Cybersecurity
- Isolation of sensitive data from emergent threats including EMI and power analysis side channels

Innovation
- Mobile device testing
- Segregation of wireless networks; In-rack wireless networks

Communications
- Emanations control mitigating interference with scientific equipment such as satellite radio antenna

KEY FEATURES

Lightweight, Rugged Construction
Rack weight does not limit installation locations

Standard Rack Footprint
Seamless integration into data center layout

Cooling
10x 235 CFM fans provide 10kW+ of cooling to support dense installations

Customizable I/O
Customizable I/O panels allow for signal and fiber connectivity

PRODUCT FEATURES

Doors
- Two (2) doors: One (1) front door and one (1) rear door
- Single point vertical door handle with lift-off hinges
- Six (6) latches per door
- One (1) hasp lock per door
- Five (5) replaceable air filters on front door

Electrical
- Two (2) 20 AMP, 250V locking receptacles (internal)
- Two (2) 20 AMP, 250V locking plugs (external)
- Two (2) Power cords, 10 feet
- Ground bar system

I/O Panel
- Blank I/O panel (installed on bottom)
- Populated I/O panel
  - Installed on top
  - Two (2) SplitFORM fiber optic waveguides

Mounting Rails
- Four (4) Adjustable 19-inch square hole rails
- Rails marked with rack units

Cooling
- 10 kW cooling with a 25° delta
- Ten (10) 235 CFM fans with 60k hour L10 life expectancy

Honeycomb Air Vents
- Ten (10) Honeycomb air vents (5 per door)
- Five (5) Replaceable air filters installed on intake

Cable Management
- Four (4) mounting brackets
- Two (2) cable managers

Provided Accessories
- Four (4) antenna brackets mounted on rear door
- Four (4) leveling feet
- Two (2) floor mounts
- Four (4) casters

Attenuation Performance
- 90 dB @ 1 GHz
- 85 dB @ 2.4 GHz
- 85 dB @ 5 GHz
- 85 dB @ 10 GHz

SPECIFICATIONS

Physical	Specs
Dimensions (H x W x D)	88.74 x 26.49 x 56.97 in. (2254mm x 600mm x 1303mm)
Max Mounting Depth	990mm
# of RUs - Usable Space	42U
Net Weight	375 lbs or 170 kg
Weight Capacity (static load)	1500 lbs (680 kg)
Weight Capacity (dynamic load)	1000 lbs (453 kg)