

JRE 2830

RF Shielded Test Enclosure

Large benchtop chamber with three C-size I/O plates — tremendous interface capability for multi-device setups and large, connector-hungry devices.



Shown open; extra-wide opening eases device placement

AT A GLANCE

- Roomy 18.5 × 26.5 × 28.5 inches inside (470 × 670 × 725 mm) in a 28" wide × 30" deep package
- Excellent isolation: -100 dB DC to 1 GHz, -95 dB to 3 GHz, -85 dB to 6 GHz
- **Three removable C-size I/O plates** — tremendous interface capability for high-channel-count and multi-device setups
- **Only 60 lb** — comparable chambers run over 100 lb
- **Quad hinges and single-handle door closure** keep the door sealed RF-tight for speedy testing
- Honeycomb vents included — optional fans; keyed locking latch available
- Optional **MW upgrade** extends isolation to 28 GHz for 5G FR2, UWB and WiFi 6E/7

DESCRIPTION

Testing several devices in one enclosure — or one large device with a lot of connections — is what the JRE 2830 is built for. Three C-size plates give room to populate a large mix of connectors and filtered interfaces, which is exactly what multi-device and high-channel-count setups demand. Honeycomb vents allow ventilation while maintaining isolation, with fans available, and the single-handle door closure keeps access quick. If you need the largest standard chamber we make, the JRE 3036 offers three plates in a taller interior for entire computer systems.

Featuring rugged welded aluminum construction, you can be assured of its tight RF shielding effectiveness. Long-life door gasket material along with

our double-edge contact engagement provides solid RF shielding and smooth, trouble-free operation over the life of the chamber. Inside, LS-30 RF absorbing foam tames reflections and hot-spots so measurements stay clean and repeatable.

Every JRE chamber uses a removable, CNC-machined I/O plate — a design JRE engineers originated over forty years ago. The three C-size plates recess into the chamber wall and do not intrude into your test volume. Because it swap out in the field with a few screws, one 2830 can be reconfigured for many different test setups over its life, using JRE's wide selection of filtered I/O interfaces — USB, Ethernet, power, HDMI and more.

SHIELDING ISOLATION

DC to 1 GHz	-100 dB
to 3 GHz	-95 dB
to 6 GHz	-85 dB

All JRE chambers, and many JRE filtered interfaces, can optionally be ordered with the MW upgrade for operation to 28 GHz at > 85 dB isolation. Contact the factory for details.

DIMENSIONS

Inside	18.5" H × 26.5" W × 28.5" D 470 × 670 × 725 mm
Outside	20" H × 28" W × 30" D 510 × 710 × 760 mm

WEIGHTS & SHIPPING

Weight	60 lb / 27.3 kg
Shipping weight	129 lb / 58.6 kg
Shipping carton	42" × 42" × 30" 1070 × 1070 × 760 mm

I/O PLATES & CONNECTORS

Plate size	Three JRE "C" size
Plate opening	7" × 7" (180 × 180 mm) each
Field changeable	Yes
Ventilation	Honeycomb vents

Test chambers do not include RF connectors or interface filters. Any connection to a device inside the chamber must be suitably filtered to maintain shielding isolation.

FEATURES & BENEFITS

- Double-contact door shields ensure repeatable measurements
- Heavy-duty quad stainless steel hinges; single-handle door closure
- 3/4" (19 mm) RF absorbing foam; 90 °C rating, UL 94V-0 flammability
- Same three-plate capability in a taller package — see JRE 3036

CONFIGURING YOUR CHAMBER

Choose from ready-to-go, in-stock C-size I/O plates with the most common filtered interfaces and connectors and your chamber can ship in just a few days — or have a custom plate designed in about a week. Fans, vents, internal AC power strips and fiber optic connectors can all be accommodated. Use the Configuration Worksheet at jretest.com to organize your requirements.