



RHINO BOX™

Environmentally Controlled Equipment Enclosures



RHINO BOX™

BE READY TO GO: ANYWHERE, ANYTIME.

The Rhino Box™ is an all-weather environmentally controlled electronic equipment enclosure. The Rhino is designed to enable Commercial-Off-The-Shelf (COTS) electronic equipment to be safely operated in nearly any environmental condition.

Built around a field-proven, transportable case, Metric Systems adds its expertise in designing and building mission critical communications equipment and systems for worldwide deployment in desert, tropical and arctic environments.

Needing little or no site or predeployment preparation required, the Rhino Box is ideal for prestaging and rapidly responding to remote and stand-alone requirements for computers, sensors and communications equipment.

Standard features include external mil-type external connectors for data and power, along with matching ruggedized cables allowing interconnection to external equipment.

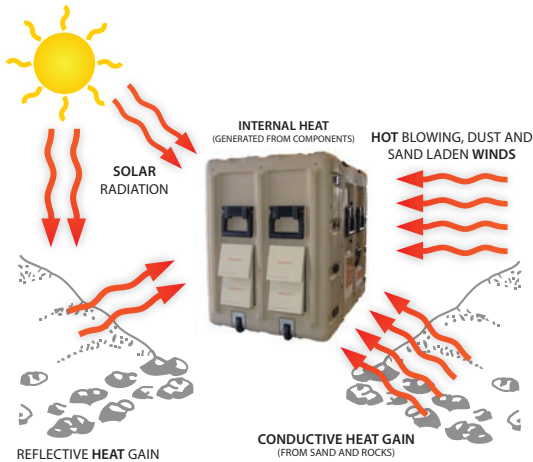
Available in multiple configurations, sizes, colors and patterns to meet your specific needs. Multiple Rhinos can be interconnected to provide a totally integrated deployable solution.

MAJOR BENEFITS:

- **ALL WEATHER OPERATION**
- **INCREASED OPERATIONAL READINESS**
- **INCREASED MOBILITY AND FLEXIBILITY**
- **HIGHER EQUIPMENT RELIABILITY AND SECURITY**
- **LOWER ACQUISITION AND LOGISTICAL COSTS**

PERFORMANCE

(600w INTERNAL HEATING)		
	WITH RHINO	WITHOUT RHINO
AMBIENT TEMP:	115° F	115° F
GROUND TEMP:	140° F	140° F
CASE TEMP:	150° + F	150° + F
INTERNAL TEMP:	< 117° + F	160° + F



OPERATION

The Rhino Box operation employs a three (3) stage active and passive heat exchange system to remove excess heat in hot environments and recirculate internal equipment generated heat in cold environments.



WEBSITE:
www.MetricSystems.com

EMAIL:
rhino@metricsystems.com

ADDRESS:
1315 Hotspring Way, Ste. 106
Vista, CA 92081

TELEPHONE:
(760) 560-0348

TOLL FREE:
(800) 549-7421

Fax:
(760) 560-0356

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APPLICATIONS AND BENEFITS

Quickly and reliably supports anywhere, anytime, any-weather operations in nearly any global venue allowing you to reliably operate COTS equipment in harsh and unimproved situations.

STANDARD FEATURES

The durable 14 U Hardigg® MAC case is mil-spec-rated for rain, sand, wind, shock, and temperature extremes to guarantee durability and integrity in protecting your specialized equipment.

Eight independently-controlled, variable-speed, high-reliability 183m³/hour high-flow fans and calibrated silicon temperature and moisture sensors to monitor ambient air intake, temperature and humidity, and internal equipment heat rise and exhaust temperature.

An embedded environmental processor maintains a safe internal operating temperature. Internal fail-safe systems maintain operation in the event of single or multiple fan failure.

Weatherized external electrical and communications interfaces provide easy access and reliable connection to internal equipment. GFI protected AC power system and service outlets provide personal safety and equipment protection.

TECHNICAL SPECIFICATIONS

- **Standard enclosures size:** 8U to 14U
- **Custom RhinoBox™ sizes:** Larger than 14U available
- **Overall 14U Size (W x H x L):** 23" (58.4 cm) x 30" (76.2 cm) x 27" (68.6 cm)
- **External Operating Temperature:** 30° F (-34° C) to 160° F (70° C)
- **Operating Humidity:** 98%
- **Rainfall:** MIL-STD-810F – 4 inches per hour per side
- **Solar radiation:** Free standing at any latitude
- **System response time:** < 5 minutes @ 600 Watt equipment load
internal temperature reduced to 6 degrees of ambient intake air temperature
- **Total system intake:** 864 CFM or 1,464 m³/hour and exhaust air movement capacity
- **Control options:** Automatic closed loop or manual user control
- **Internal Air Filters:** User accessible and cleanable
- **Network Access:** Via side mounted USB port

SYSTEM POWER OPTIONS

- 110 VAC 60 Hz
- 110 - 240 VAC 50-60 Hz
- 12 VDC @ 75 AMP capacity
- 24 VDC @ 50 AMP capacity

INTERNAL INVERTER AC POWER OPTIONS

Operating external air temperature less than 120° F – 48° C

- 600 Watt 12 VDC to 110 VAC 60 Hz
- 600 Watt 12 VDC to 220 VAC 50 Hz
- 600 Watt 24 VDC to 110 VAC 60 Hz
- 600 Watt 24 VDC to 220 VAC 50 Hz – Note AC Voltage Pure Sine Wave

* Subject to export regulations. DOC Classification EAR 99. All brands and trademarks are the property of their respective owners. Specifications subject to change without notice. Rev. 0610 Made in the USA.