



R.A.S.E.R.

Relocatable Adaptive Ssuspension Equipment Rack

Elliptical Mobile Solution's R.A.S.E.R. provides **12KW** and up to **16KW** of **closed loop cooling** and safe storage for all of your sensitive electronic equipment. It also protects that equipment from harsh vibration and shock sustained in a mobile or adverse situation. We provide the smallest and most powerful self contained data centers. ***Optional Mission Critical Venting System Available.**



Outer Shell

The R.A.S.E.R. can be moved fully loaded with equipment. The steel sub-frame allows the use of any industry standard pallet jack or forklift. The outer shell provides rigid support for the suspension system allowing a dynamic load up to 1500lbs. The panels are welded and sealed to create a NEMA 3R enclosure eliminating contaminants from the surrounding environment.

Inner Frame

The welded tubular steel inner frame conforms to an industry standard 19" wide x 36" deep rack format.

Suspension

The standard suspension utilizes an elastomeric suspension system that dampens shock and vibration.

***The optional** adaptive suspension rack will float within the outer frame using an innovative combination of magneto rheological, pneumatic, and the elastomeric suspension systems. The system will automatically adjust itself for whatever weight of equipment is installed.

Temperature Control and Power Distribution

Temperature control is accomplished by means of onboard A/C or heat exchanger units. Integrated environmental network monitoring and control is available. Our patented air ducting system offer the highest exchange of heat through the medium of air as possible. The R.A.S.E.R. is also available with dual power inlets for true redundant power distribution.

Security and Fire Suppression

Access points to the I/O panel, front and rear doors, and motion systems can be secured by a tamperproof CyberLock® system with programmable electronic locks, multi-tier security, and audit trail. The need for expensive exotic gas fire suppression is unnecessary since standard water sprinklers can be used without damage to equipment or interruption of operation.

***Optional active fire suppression using Novek 1230**

All Weather Connectivity

Self contained I/O panel provides connectivity with protected equipment inside the R.A.S.E.R. without breaching the environmental seal.

- **Mobile**
 - **Ruggedized**
 - **Compact**
 - **Secure**

R.A.S.E.R.



R.A.S.E.R.

About Elliptical Mobile Solutions (EMS)

EMS designs and manufactures mobile enclosures for sensitive electronic equipment. Based on a 'frame within a frame' approach, the EMS product line offers solutions that largely eliminate the harmful effects of severe motion, shock and vibration.

Founded in Phoenix, Arizona, EMS provides high-tech solutions for the mobile and wireless markets.

By integrating existing technologies with their forward-thinking innovations in stability, security, and ease of mobility, EMS products bring advanced technological solutions into today's evolving business environments.

EMS believes that it's time to break with conformity and offer products that truly epitomize the future while providing real world solutions today.

PATENTED

Product Features

R.A.S.E.R. is a **R**elocatable, **A**daptive, **S**uspension, **E**quipment, **R**ack designed to protect equipment from environments and situations that would render standard rack mounted equipment inoperable. The **R.A.S.E.R.** can be easily deployed in any environment fully assembled with on board cooling and equipment wired for immediate operation. The standardized skid spacing of the sub-frame allows for versatile use of industry standard pallet jacks and forklifts. This modular approach of hardened all weather self contained data center allows a truly **turn-key** scalable infrastructure to be obtained.

Technical Specifications:

Dimensions.....	83" tall x 30" wide x 75" long*
Weight.....	550 lbs*
Capacity.....	1,500 lbs*
Operational temperature	0° to 131°F*
High Density Equipment Capacity.....	36U
Low Density (Network) Equipment Capacity.....	6U
Total Equipment Capacity.....	12 KW (AC) 16 KW (Water-cooled)

Optional Upgrade Features:

Mission Critical Venting System

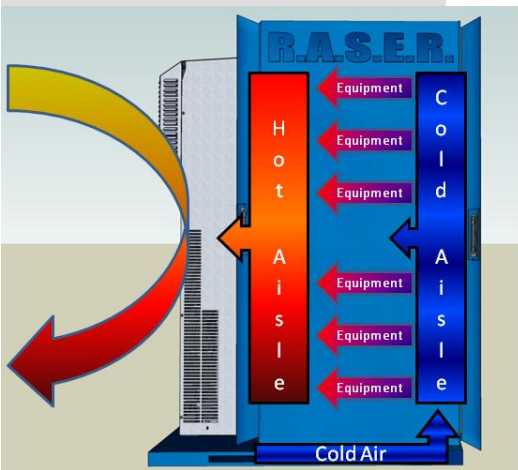
Pressure equalization valve w/ humidity indicator
EMI Shielding

Programmable electronic locks with multi-tier security and audit trail
16 KW water heat exchanger

Low ambient kit for Air Conditioner
16R Nano-particle insulation

Adaptive Suspension

FireTrace® active fire suppression w/Novek 1230



Elliptical Mobile Solutions, LLC

465 E. Chilton Drive, Suite 1

Chandler, AZ 85225

480-924-0547

www.EllipticalMobileSolutions.com