

S.P.E.A.R.

Self-Propelled Electronic Armored Rack

S.P.E.A.R. is a 22U mobile, hardened, self-contained Micro-Modular Data Center. The unit is designed for agile, high-density applications where mobility, shielding, environmental protection, and disaster tolerance are priorities.

Customers can order a variety of options such as onboard power conditioning, remote monitoring, and integrated WI-FI.

This small, yet powerful (up to 6KW) data center can be installed, completely sealed, and connected for a broad range of indoor and outdoor computing scenarios.



APPLICATIONS:

- Mobile Computing
- Mobile Command Center
- Military Communications
- Border Checkpoints
- Emergency Management
- Airport/Ports of Call
- Infrastructure Upgrade and Hardening
- High-Density Zone
- Disaster Recovery

CapEx

- Save up to 80% in upfront build costs vs. a traditional data center and 50% vs. a containerized data center
- Have a full mobile command center that costs up to 66% less than a traditional mobile command center
- Onboard fire suppression, cooling and security provided within the enclosure
- Airtight enclosure protects equipment from the elements

OpEx

- Eliminate set up costs, and investment losses due to damaged equipment
- Eliminate high service fees charged by outside disaster recovery specialists
- Significantly reduce downtime by quickly re-establishing communications

Time

- Have fully configured mobile IT in weeks vs. months.
- Move your data center within hours vs. months
- Keep up with the rapidly changing pace of IT and business today



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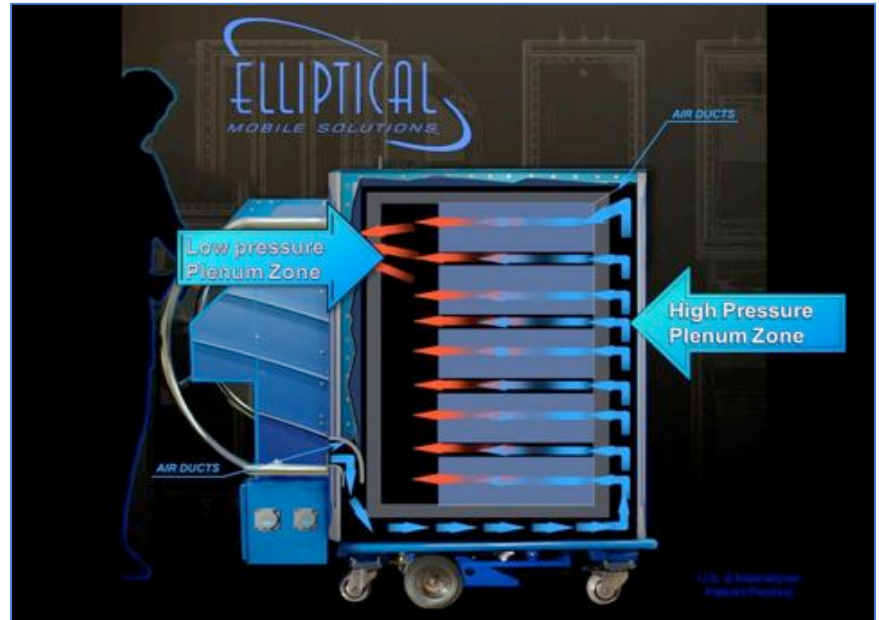
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Product Features

- Aluminum and titanium-bolted assembly outer frame and TIG welded inner frame
- Multi-axis, weight-adaptive, magnetorheologically dampened suspension
- Full mechanical lockdown capability
- Self-propelled, OSHA approved platform with a 1,000 lb payload capacity
- Industry standard 19 x 42" racks
- Self-contained I/O panel provides connectivity with protected equipment inside without breaching the environmental seal
- Tamperproof Cyberlocks with programmable electronic locks, multi-tier security, and audit trail
- Sound dampening (72 dB = indoor conversation)
- Aerogel -16R nano-particle insulation

Optional Upgrades

- Second Top-Mounted A/C - 3.5KW
- Integrated, sealed and secured I/O patch panel with IP 66 (or better) rated pass-through connectors for weatherproof connectivity
- Secondary Patch Panel
- EMI Shielding
- 256-bit encrypted MIMO wireless connectivity and KVM wireless interface



EMS's patented closed loop cooling provides containment of the hot and cold aisles so the cooling is applied directly to the equipment.

The self-propelled platform allows one individual to move up to 1,000 lbs of rack-mounted equipment.



Technical Specifications:

| | |
|---|-----------------------------------|
| Dimensions..... | 59" tall x 27.5" wide x 66" long* |
| Weight..... | 900 lbs* |
| Dynamic Load Capacity..... | 1,000 lbs* |
| Mobility Range..... | 10 miles* |
| Speed..... | 2.6 mph |
| Armored Panels..... | Threat Level 1 |
| Operational temperature | 0° to 120°F* |
| Internal Storage Capacity..... | 22 U |
| 16R Nano-particle insulation | |
| * depending upon upgrade options selected | |
| Total Cooling Capacity..... | 2.5 KW Single A/C Standard |
| | 6.0 KW Dual A/C Optional |

Elliptical Mobile Solutions, LLC

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