



## APPLICATIONS

- Data Center Implementation Using Chilled or High Temperature Water
- High Performance Computing
- Easy Cloud Implementation
- Grid Computing
- High-Density Zone
- Data Center Hot Zones

## SAVINGS

### CapEx

- Reduce the costs to plan, build, and implement your new facility by up to 80% vs. a Traditional Data Center (TDC)

### OpEx

- Reduce footprint up to 75% vs. TDC
- Reduce cooling and electrical costs up to 50%
- Product can be moved by a pallet jack or forklift - reduce costs to relocate your facility by up to 50%
- Reduce overall operating costs up to 65%

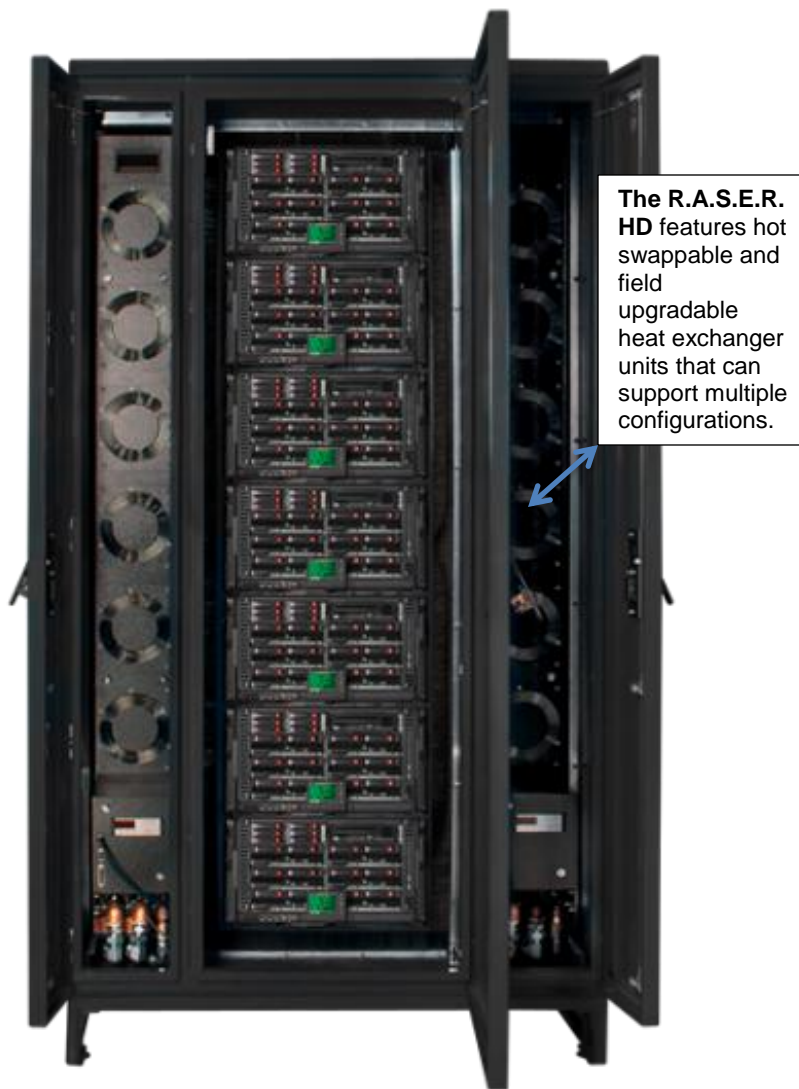
## Time

- Enclosures can be delivered within 8 weeks compared to 2 years for a TDC
- Streamline supply chain ship-tested, cabled and ready

# R.A.S.E.R. HD

The **R.A.S.E.R. HD** is a 42U, high-density, hyper-efficient Micro-Modular Data Center™ providing **redundant cooling** for IT heat loads from **20 to 80 kW**.

The enclosure uses pre-engineered closed loop (re-circulated) cooling with zero bypass airflow. This “**best practice**” method of cooling contains the hot and cold aisles providing one of the greenest IT solutions on the market today with a **PUE as low as 1.1**.



R.A.S.E.R. HD populated with \*56 blade servers for a 40 kW solution.

Deployable **outdoors or indoors**, the R.A.S.E.R. HD features active fire suppression, electronic security and environmental monitoring. These interfaces make it the most powerful and easy to implement containerized data center product on the market today.

**Grouped together or as single units, more than 1000 W/ft<sup>2</sup> density can be achieved with little or no site prep, design or construction.**

\*Blade servers sold separately.

# R.A.S.E.R. HD



The R.A.S.E.R. HD is available with blue or black powder coating.

## Technical Specifications:

|   |  |
|---|--|
| Dimensions.....                           | 2260.6 mm tall x 1193.8 mm wide x 1625.6 mm long |
| Weight.....                               | 907 to 1043 kg*                                  |
| Dynamic Load Capacity.....                | 1043 kg  |
| Operational Temperature.....              | -40 to 55° C*                                    |
| High Density Equipment Capacity.....      | 42U  |
| Total Equipment Capacity.....             | 20 to 80 kW*                                     |
| Heat Exchangers Available.....            | Single 20 kW                                     |
|   | Single 40 kW                                     |
|   | Dual 20 kW                                       |
|   | Dual 40 kW                                       |
| Water Connections Per Heat Exchanger..... | Inlet 1½" NPT                                    |
|   | Outlet 1½" NPT                                   |
|   | Condensate ½" NPT                                |
| Heat Exchanger Water Flow Per Unit.....   | 20 kW-2.8 M <sup>3</sup> /H                      |
|   | 40 kW-4.3 M <sup>3</sup> /H                      |
| Internal Air Flow Per Heat Exchange.....  | 20 kW-3000 M <sup>3</sup> /H                     |
|   | 40 kW-4000 M <sup>3</sup> /H                     |
| Water supply temperature.....             | 6.1 to 32.2° C                                   |

**All Capacity Ratings Based on 6.1° C Water Supply**

*\* depending upon upgrade options selected*

## A/C Power Options:

Standard – 208-230 VAC 50/60 Hz    20 kW-700 WATTS    40 kW-1200 WATTS  
 Optional – 48 VDC                      20 kW-624 WATTS    40 kW-1152 WATTS

## Product Features

- Built-in closed loop cooling can support high temperature water and IT loads from 20 to 80 kW
- Fully redundant cooling system configuration with self-adjusting valves, requires only a mechanical hookup
- Accepts low and high temperature cooling water
- Hot swappable and field upgradable Heat eXchanger (HX) units can support multiple configurations
- Hot swappable and alarmed fan assemblies assure continuous operations
- Indoor/ Outdoor NEMA 4 enclosure provides superior strength and protects equipment from the elements
- Shock and vibration isolation
- Industry standard 482.6 mm wide x 1066.8 mm deep racks are fully adjustable
- Built-in environmental monitoring with optional IP control and GUI interface

## Options

- EMI Shielding
- Stand alone programmable encrypted security system with audit trail
- 16R insulation/fire protection
- Fire protection using Novec 1230
- Smart power distribution units with outlet switching and power monitoring

**Elliptical Mobile Solutions, LLC**

The Global Leader in Micro-Modular Data Centers™

[www.EllipticalMobileSolutions.com](http://www.EllipticalMobileSolutions.com)