



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%

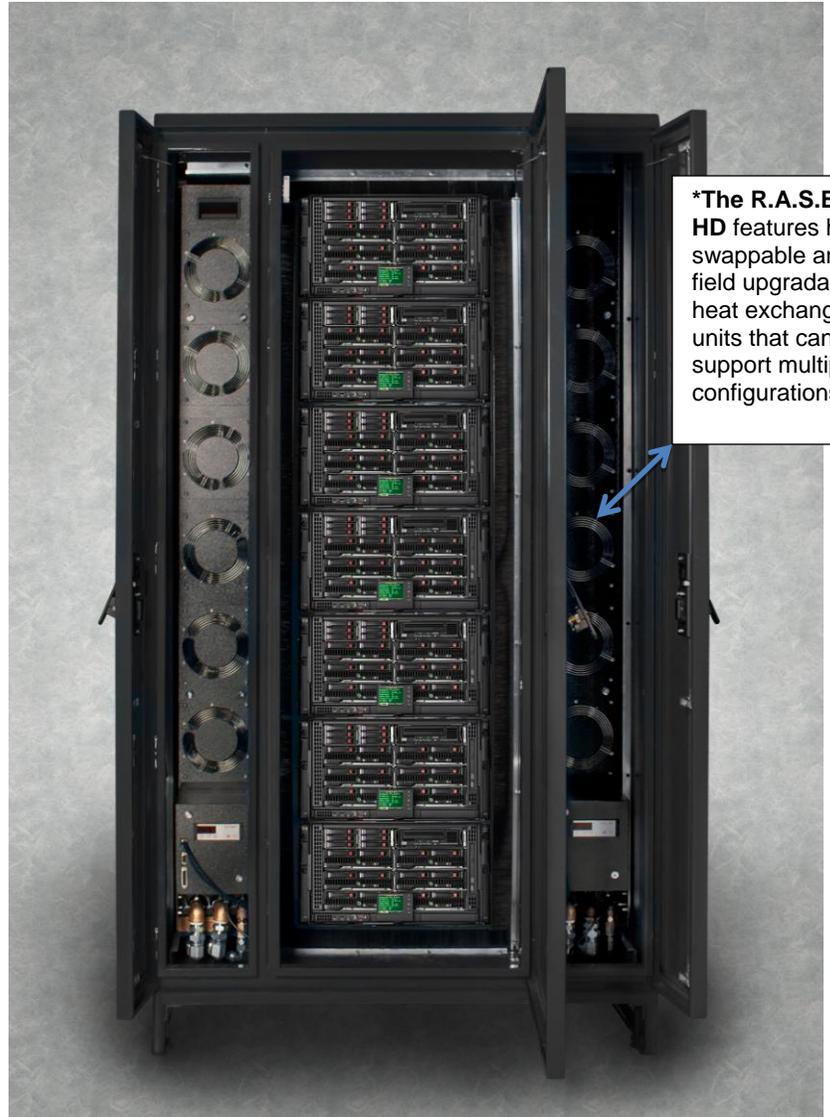
Time

- 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™ capable of 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**.



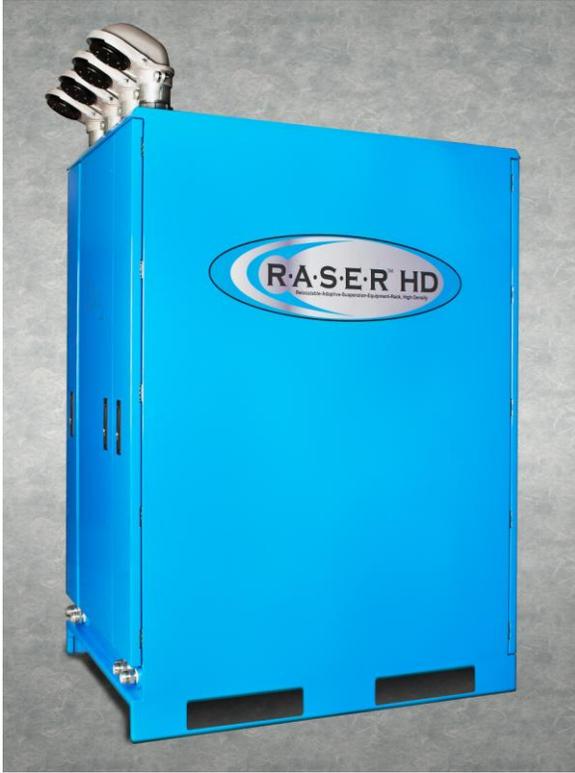
*The **R.A.S.E.R. HD** features hot swappable and field upgradable heat exchanger units that can support multiple configurations.

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/ft² 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.....	89" tall x 47" wide x 64" long
Weight.....	2000-2300 lbs*
Dynamic Load Capacity.....	2000 lbs
Operational Temperature.....	-40 to 130° F*
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-12.5 GPM
	40 kW-19 GPM
Internal Air Flow Per Heat Exchange.....	20 kW-1750 CFM
	40 kW-2350 CFM
Water supply temperature.....	43 to 90° F

All Capacity Ratings Based on 43° F 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 19" wide x 42" 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



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