THE WORLD’S MOST EFFICIENT DATA CENTER

HP POD 240a

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ACCELERATE the HPC Instant-On Enterprise
HP delivers high performance innovation at any scale

Get a competitive edge

Scalable Performance
Speed advancements with a converged infrastructure, purpose-built for scale

Maximum Efficiency
Optimize your performance footprint with the world’s most efficient systems

Instant-On Agility
Deploy easily, adapt quickly to change & improve quality of service

Barriers to Innovation and Scale
• Realized system performance and throughput
• Power capacity and cost
• Infrastructure complexity and inflexibility
HP Has Redefined the Data Center

Customers across industry and the globe agree

Breakthrough Impact—From Cloud to Broad Industry Adoption

- Aerospace
- Education
- Telecommunications
- High Tech
- Manufacturing
- Oil and Gas
- Retail
- State and Local Government
- Web 2.0
- High Performance Computing
Introducing The World’s Most Efficient Data Center
The new HP POD 240a accelerates the move to modular data centers

Compared to monolithic brick and mortar facilities, the POD is…

- **Lightning Fast**
  - up to 88% faster deployment
- **Quarter of the Cost**
  - up to 75% capex savings
- **Near Perfect PUE**
  - up to 95% less facilities energy

**HP Innovations**
- Maximum density and serviceability
- Adaptive cooling
- Comprehensive management
Cue the video
Delivering Maximum Density and Serviceability

10,000ft² data center in a compact, serviceable package

No Compromise Approach to Modularity and Density

1/10th the space – Up to 4,400 Servers
Heterogeneous, based on industry standards

7X Power Per Rack
Average 44kW per 50U rack (69kW peak)

Enhanced Serviceability and Simplicity
Closely Coupled Cooling
Shared Service Aisle Module
Traditional Data Center Service Model
Adaptive Cooling Intelligently Maximizes Efficiency
Intelligently adjusts cooling technology based on IT load and climate

Free Air – PUE as low as 1.05
default state: 58-87°F

DX Assist – PUE average 1.15
policy based limits

Full DX – PUE of 1.3
full recirculation/dehumidification

…Dial-in efficiency based on policy and environment

Cooling Parameters are user definable – ASHRAE recommended, ASHRAE allowable, or HP allowable. As inlet temperature approaches the max or min limit, direct exchange units are engaged for additional cooling, or heat containment/dehumidification. Humidity and pressure are additional variables.
HP POD 240a Environmental Control Suite

Comprehensive management, automation, and integration

Simple, remotely accessible, programmable, and extensible

Powerful remote management
Power, cooling, smoke, leak detection
Human Management Interface touch screen and remote log-in

Policy-based Adaptive Cooling
Dynamic POD fan, HVAC, air flow control settings

Building Management System API’s
Modbus and TCP/IP
Industry leading design, build, deployment & support

HP POD-Works complete the solution

- Industry leading design, build, deployment & support
- Planning/Design
- On-Site Deployment
- Service and Support
- HP POD-Works

Single Vendor
100% From Design to Commissioning

HP Financial Services Available

Redefining Data Center Economics and Modularity
Large European Manufacturer Moves to Modular
IT and Facilities—integrated deployment—simplified refresh

Super Computer Performance for Rapid Design, Development, Modeling

The largest industrial system on the June 2011 TOP500.
www.top500.org
HP Modular Computing Portfolio

Full Spectrum of Leading Modular Data Center Alternatives

Custom HP PODs
- Custom Designed by HP
- Air/Water Cooled
- Variety of capacity/footprint

Balanced Efficiency and Modularity
- HP POD 20c and 40c
- Efficient Power and Cooling
- Water cooled
- Up to 1,100U, 29kW /Rack

Maximum Efficiency, Affordability, and Flexibility
- HP POD 240a
- Optimized efficiency
- 2,200U, 44kW/Rack avg.
- POD Benefits/Data Center Feel

Flexible, Efficient Modular Brick and Mortar Alternative
- HP Flexible Data Center
- Traditional facilities design
- Energy efficient
- 3.6MW capacity facility

43 Million square feet. Delivered and Accelerating
Built on Converged Infrastructure
Common Modular Architecture
HP innovations from foundation to the cloud
WWW.HP.COM/GO/POD
WWW.HP.COM/GO/HPC
THANK YOU
THE INSTANT-ON ENTERPRISE IS HERE.