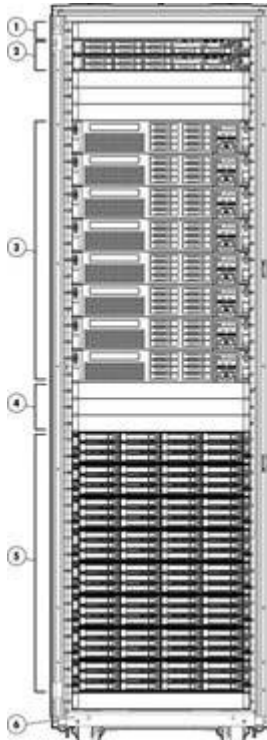
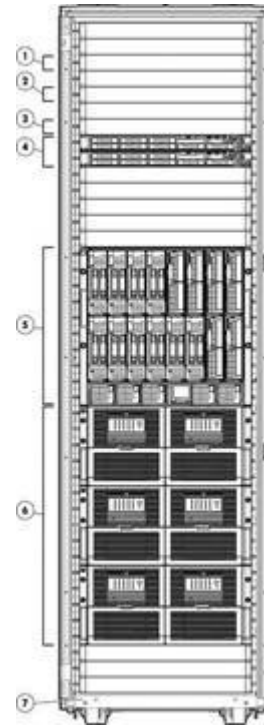


Overview



VirtualSystem VS1 for VMware

1. Two (2) HP 5920AF-24XG switches
2. Two (2) HP ProLiant DL360p Gen8 management servers
3. Two (2) to eight (8)1 HP ProLiant DL380p Gen8 virtualization servers
4. Two (2) HP 5830AF-48G switches
5. One (1) to five (5)2 HP StoreVirtual Storage Solutions
6. One (1) HP 42U 1075mm i-Series Shock Rack



VirtualSystem VS2 for VMware

1. One (1) HP 5120-16G switch
2. One (1) HP 5920-24XG switch
3. One (1) HP 5920-24XG switch
4. Two (2) HP ProLiant DL360p Gen8 management servers
5. One (1) HP BladeSystem c7000 enclosure, Virtual Connect Flex-10 and two (2) to twelve (12)³ HP ProLiant BL460c Gen8 virtualization server blades
6. One (1) to three (3)4 HP StoreVirtual Storage Solutions
7. One (1) HP 42U 1075mm i-Series Shock Rack

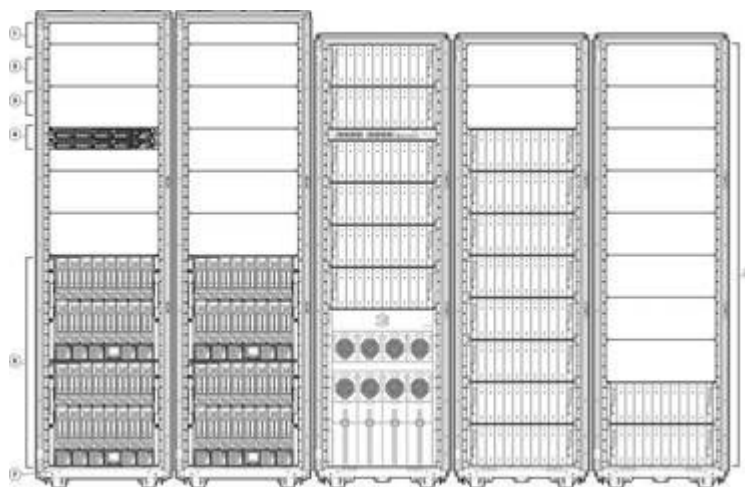
¹Maximum of six (6) DL380p Gen8 virtualization servers if five(5) HP StoreVirtual Storage Solutions are configured

²Maximum of four (4) HP StoreVirtual Storage Solutions if eight (8) DL380p Gen8 virtualization servers are configured

³Maximum of ten (10) BL460c Gen8 virtualization servers if three (3) HP StoreVirtual Storage Solutions are configured

⁴ Maximum of two (2) HP StoreVirtual Storage Solutions if twelve (12) BL460c Gen8 virtualization servers are configure

Overview



VirtualSystem VS3 for VMware

1. Two (2) HP 8/24 Power Pack+ 16-ports enabled in base, 24-port enabled in Midline SAN switches or two (2) HP 8/40 Power Pack+ 24-ports, 40-ports enabled SAN switches in extended.
2. Two (2) HP 5920AF-24XG switches and one (1) HP 5120-16G switch
3. Four (4) HP 5920AF-24XG switches and one (1) 5120 16-port (Extended only)
4. Two (2) HP ProLiant DL360p Gen8 management servers
5. One (1), two (2), or four (4) HP BladeSystem c7000 enclosures, Virtual Connect FlexFabric; four (4) to sixteen (16) HP ProLiant BL460c Gen8 server blades per enclosure (up to 64 BL460c Gen8 servers total)
6. One (1) HP 3PAR StoreServ7400 Storage; four/eight/twelve(4/8/12) HP 3PAR StoreServ 40-Drive Chassis; twenty/forty/Seventy two (20/40/72) 3PAR 4x600GB 15K FC Magazine; four/eight/twelve (4/8/12) 3PAR 4x200GB SSD Magazine; four, eight or twelve (4/8/12) 3PAR 4x1TB Nearline 7.2K Drive Magazine; four/eight/sixteen (4/8/16) 3PAR 4-Port FC host Adapters; two (2) or four (4) StoreServ 10400/10800 Controller Nodes; one (1) 3PAR 2M Expansion NEMA Rack (midline configuration); three StoreServ Controller Nodes and two (2) 3PAR 2M Expansion NEMA Rack (extended configuration only).
7. One (1) to two (2) HP i-Series 42U racks and one (1) to , three (3) HP 3PAR racks

NOTE: HP 3PAR configurations listed for HP VirtualSystem VS3 for VMware are based on recommended options. Custom 3PAR configurations may be developed and used by consulting an HP 3PAR specialist.

What's New?

- Update to HP ProLiant DL360p Gen 8 management servers
- Update to HP ProLiant DL380p Gen 8 rack servers in VS1
- Update to HP ProLiant BL460c Gen8 server blades in VS2 and VS3
- Updated switching with 5920 and 5830 series switches
- New Server and storage configuration variability
- New option for CloudSystem Software
- New option for VMware vCloud Director Software
- New option for VMware Cloud Infrastructure Suites Software

At A Glance

The HP VirtualSystem for VMware 2.1 Solution provides a revolutionary virtualization solution built for tomorrow's demands today. Simple to use, it delivers the fastest time-to-application value immediately to businesses. It is a Converged Infrastructure solution and is based on VMware software, and HP server, storage and networking technologies optimized for virtualized environments; and includes a minimum of three years of HP 24x7 hardware and software support.

Overview

The HP VirtualSystem for VMware 2.1 is pre-configured, tested and optimized to provide easy deployment to users, allowing for fast implementation and minimizing reliance on IT resources. The solution is offered in three configurations: VS1 (HP ProLiant DL380p Gen8 servers with HP StoreVirtual Storage storage), VS2 (HP BladeSystem BL460c Gen8 servers with HP StoreVirtual Storage storage), and VS3 (HP BladeSystem BL460c Gen8 servers with options of 3PAR StoreServ Storage solutions). Each offers the ability to vary the number of server to storage nodes to optimize the configuration to your workloads.

HP VirtualSystem VS1, VS2, and VS3 for VMware 2.1 base configurations are "upgrade-ready", containing full power and networking infrastructure to enable seamless upgrade to the extended configuration. A variety of iPDU options are available (both single and three-phase) to suit all geographies.

The HP VirtualSystem solutions are built on well-established HP technologies and functionality including (depending on configuration):

- HP ProLiant DL380p Gen8 and DL360p Gen8 servers
- HP BladeSystem c7000 enclosure
- HP ProLiant BL460c Gen8 server blades
- HP StoreVirtual Storage
- HP 3PAR StoreServ 7400 or 10400/10800 Storage
- HP Networking 5900 series switches and B series SAN switches
- HP Virtual Connect Flex-10
- HP Virtual Connect FlexFabric
- HP Insight Control v7.1 - including iLO Advanced and the HP Insight Control extension for VMware vCenter
- Factory Integration through HP Factory Express provides additional solution integration, validation, and faster on-site installation.
- HP support provides a single point of contact across the total solution; the servers, storage, operating system, HP software and VMware software. Additional VirtualSystem configuration services and other VirtualSystem professional services, such as network integration, are also available from HP TS Consulting.

For more information about the HP VirtualSystem for VMware, see: <http://www.hp.com/go/vsforvmware>

For more information about HP Insight Control, see: <http://www.hp.com/go/insightcontrol>

For more information about HP and VMware see: <http://www.hp.com/go/vmware>

For more information about HP Storage see: <http://www.hp.com/go/storage>

For more information about HP blades see: <http://h18004.www1.hp.com/products/blades/bladeSystem/index.html>

For more information about HP BladeSystem c7000 Enclosure see:

http://h18000.www1.hp.com/products/quickSpecs/12810_div/12810_div.html

For more information about HP BladeSystem c-Class Interconnect and Mezzanine Components see:

<http://h18004.www1.hp.com/products/blades/components/c-class-interconnects.html>

<http://h18004.www1.hp.com/products/blades/components/c-class-adapters.html>

For more information about HP Factory Express see:

http://h71028.www7.hp.com/enterprise/cache/97688-0-0-0-121.html?jumpid=reg_r1002_usen_c-001_title_r0001

How to Order

How to order the HP VirtualSystem for VMware Solutions

The HP VirtualSystem for VMware Solutions include all of the HP hardware, HP software, and VMware software components plus factory integration, onsite installation and 3 yr of hardware and software support.

For customers that maintain ELAs (Enterprise License Agreements) for VMware software - please inform your sales team that your VirtualSystem should take advantage of your site license. When purchasing licenses with HP VirtualSystem for VMware, 1 VMware vSphere Enterprise Plus license per socket is included by default. Please ensure that you meet minimum entitlement requirements for your particular configuration. Additional VMware vSphere Enterprise Plus licenses can be purchased through HP at the time of order

For maximum customer flexibility three solutions are available: HP VirtualSystem VS1 for VMware (P/N: 696023-B21), HP VirtualSystem VS2 for VMware (P/N: 696024-B21), and HP VirtualSystem VS3 for VMware (P/N: 696025-B21). HP VirtualSystem for VMware offers customers flexibility options for defining the server to storage ratio to better align to specific workload needs.

With all HP VirtualSystem orders, the following services are included:

- Integration into your data center. Use your own customized settings such as IP addresses, hostnames, and other information needed to be ready to be integrated into the datacenter - provided through Factory Express services via the Customer Intent Document to ensure the system is built ready to be integrated into the datacenter
- Factory integration services through HP Factory Express to rack, cable, and configure (including VMware vSphere and vCenter) the infrastructure in a rack
- Installation and start up services, including:
 - Customer assistance of license redemption and End User License Agreement (EULA) acceptance assurance
 - Installation of HP Insight Control (and associated components)
- 3yr HP Proactive Care 6hr Call-to-Repair Repair is the recommended default and 3yr HP Support Plus 24 is the minimum support level. Additional support levels and services are available.

The Technology Services Installation Service is detailed in the installation and start up section below.

NOTE: HP VirtualSystem for VMware does not include data center Network Integration Services. Some customers that do not have networking expertise internally may require Network Integration Services. For these customers, it is highly recommended that a custom network integration service be arranged with HP TS Consulting. For more information, please contact your TS sales representative.

Standard Features

HP VirtualSystem for VMware software

The HP VirtualSystem for VMware comes standard with the HP Insight Control v7 software, the HP Insight Control plug-in for vCenter, VMware vSphere 5.1 Enterprise Plus and VMware vCenter Server Standard. The VMware software is factory installed by default and licenses are included, if purchased with the solution. HP Insight Control is installed and configured at the customer site. VMware license registration and acceptance of the End User License Agreement (EULA) takes place onsite at time of integration by the customer. For customers that maintain ELAs (Enterprise License Agreements) – please inform your sales team so that your VirtualSystem takes advantage of your site license. See model details for license information. Microsoft Windows Server 2008 R2 Enterprise Edition is included on the management nodes only. Customers will need to supply OS licensing for the VMs they deploy.

HP VirtualSystem for VMware is built on the combination of HP Converged Infrastructure and VMware vSphere and specifically designed to handle today's wide range of datacenter workloads.

It is ideal for mid-market to large enterprise customers moving beyond basic consolidation, managing complex infrastructure and who are considering a private cloud in the future.

- Fully integrated virtualization platform
- Characterized and tuned for vSphere and vCenter
- Accelerated time to deployment
- Onsite installation, custom network integration services may be added by contacting TS Consulting
- Full solution supported by HP support, including the VMware software
- Built on industry leading servers, storage, networking, with integrated management for automated virtual machine management
- Performance tested for typical workloads
- Exceptional power and cooling efficiency
- Resiliency designed into systems, configuration, and software
- Modular, expandable to accommodate growth affordably
- Upgradable to or can be managed by HP CloudSystem
- Basis for VMware vCloud

VMware vSphere 5.1

HP and VMware together provide powerful integrated solutions for customers who want the confidence of deploying VMware vSphere and cloud infrastructure on robust certified systems with comprehensive services and seamless support.

The long-standing partnership between HP and VMware is based on collaborative engineering and joint marketing activities that have led to many customer successes across a wide range of industries including financial services, health care, telecommunications, the public sector, and many others.

VMware vSphere and vCenter are preinstalled on the HP VirtualSystem for VMware and necessary licenses are included, unless removed from the order based on an existing customer ELA. More information is available at:

<http://h18004.www1.hp.com/products/servers/vmware/index.html>

For more information on VMware vSphere licensing and packaging, please refer to:

http://www.vmware.com/files/pdf/vsphere_pricing.pdf

Standard Features

HP Insight management software

HP Insight Control

- HP Insight Control is essential server management software that enables you to fully utilize the management capability built into your ProLiant servers. The unbeatable combination of HP ProLiant with Insight Control delivers the best managed servers in the industry. For more information, visit: www.hp.com/go/insightcontrol.
- HP Insight Control for VMware vCenter adds integrated extensions to make the ProLiant management information available through the vCenter console, and also adds health monitoring and alerting, proactive virtual machine management, and ProLiant OS deployment and update capabilities to the vCenter console. For more information, visit: www.hp.com/go/icvc.
- HP Insight Control remote management, featuring iLO Advanced, provides comprehensive lights-out remote management capabilities for ProLiant servers, including high-performance virtual KVM for routine and emergency remote administration, remote access to server power control and event logs, virtual media for simple deployment and update of remote servers, and single server power measurement and regulation. For more information, visit: www.hp.com/go/iLO.

HP Integrated Lights-Out 4 (iLO 4) (included with each model)

HP Integrated Lights-Out 4 (iLO) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. HP iLO functions without additional software and can be accessed from any location via a web browser. HP iLO works hand-in-hand with HP Systems Insight Manager, Insight Control suites, and Insight Dynamics for ProLiant, helping customers unleash the value of the ProLiant platform and deliver the highest possible quality of IT service. For more information, visit: www.hp.com/go/iLO

Installation and Startup Service

The included onsite Installation and Startup Service provided as part of Factory Express Level 4 consists of these steps:

- Prior to solution delivery, HP will collect the various parameters needed to perform System installation, in particular the network uplink parameters through the use of a Customer Intent Document.
- Upon delivery to customer's site, unpack and inspect for damages
- Connect VirtualSystem into customer's environment, power, network cabling
- Basic configuration of the network uplinks to the customer environment and connection verification
- Conduct basic solution level functionality testing
- Familiarize customer with the equipment and with basic processes
- Instruct customer on how to place support calls

NOTE: The Factory Express service products included in this solution uses a Customer Intent Document (CID) to assist with the proper build of the solution. The CID Reference ID# is required to be in place prior to sale. Before issuing a purchase order against this solution, please contact your HP sales representative to engage an HP Engagement Project Manager (EPM).

NOTE: Customers are required to provide cables for uplinks.

For more information about Factory Express see: http://h71028.www7.hp.com/enterprise/cache/97688-0-0-0-121.html?jumpid=reg_r1002_usen_c-001_title_r0001

Standard Features

Warranty services

The VirtualSystem is covered by a global limited warranty and supported by HP Services. Beyond the warranty, Proactive Care is the recommended and default offering, providing 24x7 hardware and software support with 6 hour call-to-repair. Support Plus 24 is the minimum allowable support level. See Step 2.

NOTE: Warranty varies by component. Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>.

HP Financial Services

To support customers' transition, HP Financial Services (HPFS) can help in a way that you may not have considered. HPFS can help you invest in your business while preserving precious capital.

For more information, contact your local HP Financial Services Representative. In the United States, call 1-888-277-5942. In Canada, dial 1-800-HP-LEASE. For more information please visit: www.hp.com/hpfinancialservices for links to HP Financial Services around the world.

Rack Airflow Requirements

HP 42U 1075mm i-Series Shock Rack

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The HP 42U 1075mm i-Series Shock Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

The HP Intelligent Series Rack family is the next generation of enterprise-class racks designed to meet the current and future requirements of demanding datacenters. It offers innovative intelligence capabilities for asset management, unparalleled structural integrity, cooling and cable management advances, and a wide choice of power and switching options.

The HP Intelligent Series is the first rack family to offer location discovery intelligence for advanced asset management. This new capability integrates with HP Lights-Out Management (iLO) and HP Intelligent Power Distribution Units (iPDU) to communicate to the datacenter manager the U space, row, and rack location of each server.

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels will result in improper cooling that can lead to thermal damage.

Configuration Information - Factory Integrated Models

NOTE: This section lists the standard features included in each model of the HP VirtualSystem for VMware 2.1

NOTE: All components are factory integrated and have been localized to US English.

VirtualSystem for VMware configurations come default with vSphere 5.1 Enterprise Plus, vCenter Server Standard, Insight Control v7, Insight Control v7 for vCenter plug-in, Factory Express level 4 configuration and onsite integration. Customers that have ELAs (Enterprise License Agreements) covering vSphere 5.1 Enterprise Plus and vCenter Server Standard are not required to purchase these licenses from HP.

NOTE: Management servers are mandatory for the VirtualSystem order to ensure complete provisioning and initial installation and setup. Customers integrating VirtualSystem into existing VMware vCenter and/or centralized management environments, may use their IT resources, Channel Partners, or HP Services to customize the management environment and redeploy the DL360p Gen8 servers in the event that VirtualSystem specific management servers are not desired.

NOTE: VirtualSystem for VMware is not a single SKU appliance. The SKU number associated with each VirtualSystem configuration triggers the inclusion of all components of the solutions at the time of ordering, whether required or optional.

NOTE: Customers may choose to configure virtualization host servers within HP VirtualSystem for either 128GB (8x16GB), 256GB (16x16GB), or 384GB (24x16GB, VS1 only) of DDR3 memory.

Step 1: Order HP's VirtualSystem for VMware configuration. Choose from one of the three models below which meets your virtualization and performance needs.

Models HP VirtualSystem VS1 for VMware 2.1 696023-B21

HP VirtualSystem VS1 includes the following:

One (1) HP 42U 1075mm i-Series Shock Rack includes:

- Two (2) to eight (8) HP ProLiant DL380p Gen8 Servers (Virtualization Hosts) - each server is configured with:
 - OPTION: Eight (8), Sixteen (16), or twenty-four (24) HP 16GB 2Rx4 PC3-12800R-11 Kit (128GB, 256GB, or 384GB)
 - Two (2) Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8GT-s QPI/135W, DDR3-1600, HT, Turbo2- 4/4/4/5/5/7/7/9)
 - One (1) HP 1GB P-Series FBWC Upgrade
 - Two (2) 146GB 6G 15k rpm SAS SFF drives
 - One (1) HP DL380p/385p Gen8 3 Slot PCI-E Riser Kit
 - One (1) HP Ethernet 1Gb 4-port 331T Adapter
 - One (1) HP NC552SFP 10GbE 2P Svr Adapter
 - Two (2) HP 750W CS Plat PL Ht Plg Pwr Supply Kit
- Two (2) HP DL360p Gen8 8-SFF Server (Management Station) - each server is configured with:
 - Eight (8) HP 16GB 2Rx4 PC3-12800R-11 Kit (128GB)Kit
 - Two (2) Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8GT-s QPI/135W, DDR3-1600, HT, Turbo2- 4/4/4/5/5/7/7/9)
 - One (1) HP 1GB FBWC for P-Series Smart Array
 - Four (4) 300GB 6G SAS 15K rpm SFF SC Enterprise Hard Drive
 - One (1) SATA DVD Optical Kit
 - Two (2) HP 750W CS Platinum Power Supply Kit
- Two (2) HP 5830AF-48G switch
- Two (2) HP 5920AF-24XG switches
- One (1) HP Airflow Optimization Kit
- One (1) to five (5) HP LeftHand P4500 G2 14.4TB SAS Virtualization SAN Solution (2 nodes per SAN Solution)
- Six (6) HP Intelligent Mod PSU 24A with two (2) HP PDU Ext bar kits (pair); or

Configuration Information - Factory Integrated Models

- optionally four (4) HP Intelligent Mod PSU 40A with one (1) HP PDU Ext bar kit (pair).
- One (1) HP Insight Control v7, Single Server License per server (both host and management nodes)
- One (1) HP Insight Control for vCenter v7
- One (1) HP Insight Control storage module for vCenter v7
- One (1) VMw vCntr Srv Std 1yr9x5 (included as default, may be removed in case of ELA)
- Two (2) VMw vSphere 5.1 Ent+ 1P 1yr9x5 (included as default, may be removed in case of ELA) per server (both host and management nodes)
- Two (2) Microsoft Windows Server 2008 R2 Enterprise Edition 10 CAL - (included as default on the management nodes and may be removed at customer request)
- HP Proactive Care 6hr CTRHP (default support level)
- Virtualization SAN Service

HP VirtualSystem VS2 for VMware 2.1

696024-B21

HP VirtualSystem VS2 includes the following:

One (1) HP 42U 1075mm i-Series Shock Rack includes:

- One (1) HP BLc7000 3 IN LCD ROHS Enclosure (virtualization host)
 - One (1) HP 6X 2400W Platinum Efficiency FIO Power Supply bundle
 - One (1) 6x HP Active Cool 2000 Fan Bundle
 - One (1) HP c7000 Onboard Administrator with KVM Option
 - Two (2) to Fourteen (14) HP ProLiant BL460c Gen8 Server - each server is configured with:
 - Two (2) Intel® Xeon® E5-2670 (2.60GHz/8-core/20MB/115W) Processor
 - Eight (8) or Sixteen (16) HP 16GB 2Rx4 PC3-12800R-11 Kit (128GB or 256GB per server)
 - Two (2) HP 146GB 6G SAS 15K 2.5in SC ENT HDD
- Two (2) HP ProLiant DL360p Gen8 Server (Management Station) - each server is configured with:
 - Eight (8) HP 16GB 2Rx4 PC3-12800R-11 Kit
 - Two (2) Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8GT-s QPI/135W, DDR3-1600, HT, Turbo2- 4/4/4/5/5/7/7/9) One (1) HP 2GB Flash Backed Write Cache for P-Series Smart Array
 - Four (4) 300GB 6G SAS 15K rpm SFF SC Enterprise Hard Drive
 - One (1) HP 9.5mm SATA DVD ROM Jb Kit
 - Two (2) HP 750w CS Platinum Power Supply Kit
- One (1) HP Virtual Connect Flex-10 10Gb Enterprise Edition for BladeSystem c7000 (includes two modules plus Virtual Connect Enterprise Manager license)
- Two (2) HP 3Gb SAS Switch BladeSystem
- One (1) HP 5120-16G SI Switch
- Two (2) HP 5920AF-24XG Switch
- One (1), two (2), or three (3) HP StoreVirtual Storage Solutions
- Six (6) HP Intelligent Mod PSU 24A with two (2) HP PDU Ext bar kits (pair); or optionally four (4) HP Intelligent Mod PSU 40A with one (1) HP PDU Ext bar kit (pair).
- One (1) HP Insight Control v7 for BladeSystem including 1yr 24x7 Support

Configuration Information - Factory Integrated Models

- Enclosure 16 Server FIO License
- One (1) HP insight control for vCenter v7
- Two (2) Insight Control v7, Single Server Licenses
- One (1) VMw vCntr Srv Std 1yr9x5 (included as default, may be removed in case of ELA)
- Two (2) VMware vSphere 5.1 Ent+ 1P 1yr9x5NmLic (included as default per server, may be removed in case of ELA)
- Two (2) Microsoft Windows Server 2008 R2 Enterprise Edition 10 CAL (included as default on the management nodes and may be removed at customer request)
- HP Proactive Care 6hr CTRHP (default support level)

HP VirtualSystem VS3 for VMware 2.1

696025-B21

VirtualSystem VS3 (7400) for VMware configuration includes the following:

1. Two (2) HP 642 1075mm Shock Intelligent Series Racks (42U)
2. Two HP 8/24 Power Pack+, 16 ports enabled SAN switches.
3. Two (2) HP 5920AF-24XG switches
4. One (1) HP 5120 16-port switch
5. Two (2) HP ProLiant DL360 Gen8 management servers
6. One (1) HP BladeSystem c7000 enclosure, two (2) virtual connect FlexFabric, four (4) to sixteen (16) HP ProLiant BL460c Gen8 servers total5.
7. One (1) HP 3PAR StoreServe 7400
 - a. Optional Storage Configuration additions
 - 1 HP 3PAR StoreServ 7400 4- Storage Base
 - 2 HP 3PAR StoreServ 7400 4-port 8G FCA
 - 5 HP M6710 2.5in 2U SAS Drive Enclosure
 - 8 HP M6710 200GB 6G SAS 2.5in SLC SSD
 - 120 HP M6710 300GB 6G SAS 15K 2.5in HDD
 - 1 HP 3PAR 7000 Service Processor
 - 1 HP 3PAR 7400 OS Suite Base LTU
 - 128 HP 3PAR 7400 OS Suite Drive LTU
 - 1 HP 3PAR 7400 Data Opt Suite Base LTU
 - 128 HP 3PAR 7400 Data Opt Suite Drive LTU
 - 1 HP 3PAR 7400 Replication Suite Base LTU
 - 128 HP 3PAR 7400 Replication Suite Drive LTU
 - 1 HP 3PAR 7400 Reporting Suite LTU
 - 1 HP 642 1075mm Shock Intelligent Series Rack (42U)
 - 1 HP 42U 1075mm Side Panel Kit
 - 1 HP PDU Pivot Kit
 - Application Suite for VMware

HP VirtualSystem VS3 (10400/10800) configuration includes the following:

One (1) or two (2) HP 42U 1075mm i-Series Shock Racks and one (1), two (2), or three (3) 3PAR racks and includes:

- One (1), Two (2), or four (4) HP BLc7000 3 IN LCD ROHS Enclosure (virtualization host) - each enclosure is configured with:
 - One (1) HP 6X 2400W Platinum Efficiency FIO Power Supply bundle
 - One (1) 6x HP Active Cool 2000 Fan Bundle

Configuration Information - Factory Integrated Models

- Two (2) HP c7000 Onboard Administrator with KVM Option
- Four (4) to sixteen (16) HP ProLiant BL460c Gen8 Server - each server is configured with:
 - Two (2) HP BL460c Gen8 Intel® Xeon® E5-2670 (2.60GHz/8-core/20MB/115W) Processor
 - Eight (8) or Sixteen (16) HP 16GB 2Rx4 PC3-12800R-11 Kit (128GB or 256GB per server)
 - One (1) HP 2GB Flash Backed Write Cache for P-Series Smart Array
 - Two (2) HP 146GB 6G SAS 15K 2.5in SC ENT HDD
- Two (2) HP ProLiant DL360p Gen8 Server (Management Station) - each server is configured with:
 - Eight (8) HP 16GB 2Rx4 PC3-12800R-11 Kit
 - Two (2) Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8GT-s QPI/135W, DDR3-1600, HT, Turbo2- 4/4/4/5/5/7/7/9)
 - One (1) HP 2GB Flash Backed Write Cache for P-Series Smart Array
 - Four (4) 300GB 6G SAS 15K rpm SFF SC Enterprise Hard Drive
 - One (1) HP 82Q 8Gb Dual Port PCI-e FC HBA
 - One (1) HP Ethernet 1Gb 4-port 331T Adapter
 - One (1) HP FlexFabric 10Gb 554FLR-SFP+ FIO Adptr
 - One (1) HP 9.5mm SATA DVD ROM Jb Kit
 - Two (2) HP 750w CS Platinum Power Supply Kit
- HP 3PAR StoreServ 10400 Base
 - 8 HP 8Gb Short Wave B-Series SFP+ 1 Pack
 - 8 HP 15m Multi-mode OM3 LC/LC FC Cable
 - 1 HP 3PAR StoreServ 10400 NEMA Base
 - 8 HP 3PAR 10000 4Port FC Adapter
 - 4 HP 3PAR 10000 40-drive Chassis
 - 4 HP 3PAR 10000 4x200GB SSD Magazine
 - 20 HP 3PAR 10000 4x600GB FC Magazine
 - 8 HP 3PAR 6M 50/125 (LC-LC) Fibre Cable
 - 4 HP 3PAR 10000 4x1TB SATA Magazine
 - 1 HP 3PAR System Reporter Media Kit
 - 1 HP 3PAR Host Explorer SW Media Kit
 - 1 HP 3PAR Solns for vSphere SW Media Kit
 - 1 HP 3PAR Mgmt Plug-In vCenter Media Kit
 - 4 HP 3PAR InForm V400/4x200GB SSD Mag LTU
 - 20 HP 3PAR InForm V400/4x600GB 15K Mag LTU
 - 4 HP 3PAR Opt Ste V400/4x200GB SSD Mag LTU
 - 20 HP 3PAR Opt Ste V400/4x600GB 15K Mag LTU
 - 1 HP 3PAR Recovery Mgr vSphere V400 LTU
 - 1 HP 3PAR System Reporter V400 LTU
 - 67 HP 3PAR Thin Suite 1TB LTU
 - 4 HP 3PAR Vrt Cpy V400/4x200GB SSD Mag LTU
 - 20 HP 3PAR Vrt Cpy V400/4x600GB 15K Mag LTU
 - 4 HP 3PAR InForm V400/4x1TB 7.2K Mag LTU
 - 4 HP 3PAR Opt Ste V400/4x1TB 7.2K Mag LTU
 - 4 HP 3PAR Vrt Cpy V400/4x1TB 7.2K Mag LTU
- OR
- HP 3PAR StoreServ 10400 Midline
 - 16 HP 8Gb Short Wave B-Series SFP+ 1 Pack
 - 16 HP 15m Multi-mode OM3 LC/LC FC Cable

Configuration Information - Factory Integrated Models

- 4 HP 3PAR 10M 50/125 (LC-LC) Fiber Cable
- 1 HP 3PAR StoreServ 10400 NEMA Base
- 2 HP 3PAR StoreServ 10400 Controller Node
- 16 HP 3PAR 10000 4Port FC Adapter
- 6 HP 3PAR 10000 40-drive Chassis
- 2 HP 3PAR 10000 40-drive Chassis
- 1 HP 3PAR StoreServ 10000 2M Exp NEMA Rack
- 6 HP 3PAR 10000 4x200GB SSD Magazine
- 2 HP 3PAR 10000 4x200GB SSD Magazine
- 30 HP 3PAR 10000 4x600GB FC Magazine
- 10 HP 3PAR 10000 4x600GB FC Magazine
- 12 HP 3PAR 6M 50/125 (LC-LC) Fibre Cable
- 6 HP 3PAR 10000 4x1 TB SATA Magazine
- 2 HP 3PAR 10000 4x1 TB SATA Magazine
- 2 HP 8/8 and 8/24 SAN Switch 8-pt Upgr LTU
- 1 HP 3PAR System Reporter Media Kit
- 1 HP 3PAR Host Explorer SW Media Kit
- 1 HP 3PAR Solns for vSphere SW Media Kit
- 1 HP 3PAR Mgmt Plug-In vCenter Media Kit
- 8 HP 3PAR InForm V400/4x200GB SSD Mag LTU
- 40 HP 3PAR InForm V400/4x600GB 15K Mag LTU
- 8 HP 3PAR Opt Ste V400/4x200GB SSD Mag LTU
- 40 HP 3PAR Opt Ste V400/4x600GB 15K Mag LTU
- 1 HP 3PAR Recovery Mgr vSphere V400 LTU
- 1 HP 3PAR System Reporter V400 LTU
- 134 HP 3PAR Thin Suite 1TB LTU
- 8 HP 3PAR Vrt Cpy V400/4x200GB SSD Mag LTU
- 40 HP 3PAR Vrt Cpy V400/4x600GB 15K Mag LTU
- 8 HP 3PAR InForm V400/4x1TB 7.2K Mag LTU
- 8 HP 3PAR Opt Ste V400/4x1TB 7.2K Mag LTU
- 8 HP 3PAR Vrt Cpy V400/4x1TB 7.2K Mag LTU
- OR
- HP 3PAR StoreServ 10800 Extended
 - 20 HP 3PAR 10M 50/125 (LC-LC) Fiber Cable
 - 1 HP 3PAR StoreServ 10800 NEMA Base
 - 24 HP 3PAR 10000 4Port FC Adapter
 - 2 HP 3PAR 10000 40-drive Chassis
 - 8 HP 3PAR 10000 40-drive Chassis
 - 2 HP 3PAR 10000 40-drive Chassis
 - 1 HP 3PAR StoreServ 10000 2M Exp NEMA Rack
 - 1 HP 3PAR StoreServ 10000 2M Exp NEMA Rack
 - 2 HP 3PAR 10000 4x200GB SSD Magazine
 - 8 HP 3PAR 10000 4x200GB SSD Magazine
 - 2 HP 3PAR 10000 4x200GB SSD Magazine
 - 12 HP 3PAR 10000 4x600GB FC Magazine
 - 48 HP 3PAR 10000 4x600GB FC Magazine
 - 12 HP 3PAR 10000 4x600GB FC Magazine
 - 4 HP 3PAR 6M 50/125 (LC-LC) Fibre Cable
 - 4 HP 3PAR StoreServ 10800 Controller Node
 - 2 HP 3PAR 10000 4x1 TB SATA Magazine

Configuration Information - Factory Integrated Models

- 8 HP 3PAR 10000 4x1 TB SATA Magazine
- 2 HP 3PAR 10000 4x1 TB SATA Magazine
- 1 HP 3PAR System Reporter Media Kit
- 1 HP 3PAR Host Explorer SW Media Kit
- 1 HP 3PAR Solns for vSphere SW Media Kit
- 1 HP 3PAR Mgmt Plug-In vCenter Media Kit
- 12 HP 3PAR InForm V800/4x200GB SSD Mag LTU
- 72 HP 3PAR InForm V800/4x600GB 15K Mag LTU
- 12 HP 3PAR Opt Ste V800/4x200GB SSD Mag LTU
- 72 HP 3PAR Opt Ste V800/4x600GB 15K Mag LTU
- 1 HP 3PAR Recovery Mgr vSphere V800 LTU
- 1 HP 3PAR System Reporter V800 LTU
- 230 HP 3PAR Thin Suite 1TB LTU
- 12 HP 3PAR Vrt Cpy V800/4x200GB SSD Mag LTU
- 72 HP 3PAR Vrt Cpy V800/4x600GB 15K Mag LTU
- 12 HP 3PAR InForm V800/4x1TB 7.2K Mag LTU
- 12 HP 3PAR Opt Ste V800/4x1TB 7.2K Mag LTU
- 12 HP 3PAR Vrt Cpy V800/4x1TB 7.2K Mag LTU
- AND
 - Two (2) HP Virtual Connect FlexFabric 10Gb/24-port Module for c-Class BladeSystem per enclosure
 - Two (2) HP 5920AF-24XG Switch
 - One (1) HP 5120-16G SI Switch
 - Two (2) HP 8/24 Base 16-ports Enabled SAN Switch
 - Six (6) HP Intelligent Mod PSU 24A with two (2) HP PDU Ext bar kits (pair); or optionally four (4) HP Intelligent Mod PSU 40A with one (1) HP PDU Ext bar kit (pair). Two (2) HP 5xc13 Intelligent PDU Ext Bars Kit, Pair
 - Two (2) HP Insight Control v7 for BladeSystem including 1yr 24x7 Support Enclosure 8 Server FIO License (per enclosure)
 - One (1) HP insight control for vCenter v7
 - Two (2) Insight Control v7, Single Server Licenses
 - Two (2) Integrate Lights Out 3 Standard Blades Edition
 - One (1) VMw vCntr Srv Std 1yr9x5 (included as default, may be removed in case of ELA)
 - Two (2) VMware vSphere 5.1 Ent+ 1P 1yr9x5NmLic per server (included as default per server, may be removed in case of ELA)
 - Two (2) Microsoft Windows Server 2008 R2 Enterprise Edition 10 CAL (included as default in the management nodes and may be removed at customer request)
 - HP Proactive Care 6hr CTRHP (default support level)

Step 2: Choose HP Care Pack Support and Additional Services

HP Service and Support HP 3yr Proactive Care 6hr call-to-repair is the recommended level and default. HP 3yr Support Plus 24 is the required minimum support with HP VirtualSystem for VMware. For additional choices, select from one of the following support offers:

HP Proactive Care - 3yr, 4yr or 5yr

NOTE: Chose from 24x7 or 6hr call-to-repair reactive levels. There is also the option to add Defective Media Retention.

Configuration Information - Factory Integrated Models

5yr Proactive Care 6hr CTR with Personalized Support Option	H1K94A5 + H4B58A5#001
4yr Proactive Care 6hr CTR with Personalized Support Option	H1K94A4 + H4B58A4#001
3yr Proactive Care 6hr CTR with Personalized Support Option	H1K94A3+ H4B58A3#001
5yr Proactive Care 6hr CTR w/DMR with Personalized Support Option	TBD + H4B58A5#001
4yr Proactive Care 6hr CTR w/DMR with Personalized Support Option	TBD + H4B58A4#001
3yr Proactive Care 6hr CTR w/DMR with Personalized Support Option	TBD + H4B58A3#001
5yr Proactive Care 24x7 with Personalized Support Option	H1K92A5 + H4B58A5#001
4yr Proactive Care 24x7 with Personalized Support Option	H1K92A4+ H4B58A4#001
3yr Proactive Care 24x7 with Personalized Support Option	H4B58A3 + H4B58A3#001
5yr Proactive Care 24x7 w/DMR with Personalized Support Option	TBD + H4B58A5#001
4yr Proactive Care 24x7 w/DMR with Personalized Support Option	TBD + H4B58A4#001
3yr Proactive Care 24x7 w/DMR with Personalized Support Option	TBD + H4B58A3#001

HP Support Plus 24 -- 3yr, 4yr or 5yr

NOTE: For a high return on your server and storage technology, our 3-year combined reactive support service delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support and software updates. There is also the option to add Defective Media Retention.

5yr Support Plus 24	HA110A5
4yr Support Plus 24/4yr Support Plus 24	HA110A4
3yr Support Plus 24 (minimum requirement)	HA110A3
5yr Support Plus 24 w/DMR	HG930A5
4yr Support Plus 24 w/DMR	HG930A4
34yr Support Plus 24 w/DMR	HG930A34

HP Proactive Select - 1yr, 3yr, 4yr, or 5yr

NOTE: Proactive Select can be added to other support offers to provide an assigned account support manager focused on technical and operational improvements specific to your business environment.

NOTE: With HP Proactive Select, you purchase credits that can be applied to any proactive service from our extensive menu that spans the entire lifecycle of your IT environment. For example, help with implementing a new technology, or proactive notification of critical network service problems.

NOTE: Available in packages of service credits, redeem them as you go, choosing the proactive services you need to fit your environment and critical IT and business goals.

Configuration Information - Factory Integrated Models

NOTE: Care Pack Services for different duration and credit sizes are listed below.

HP 1Y Proactive Select 10 credits SVC	HK696A1
HP 1Y Proactive Select 30 credits SVC	HG921A1
HP 1Y Proactive Select 60 credits SVC	HG922A1
HP 1Y Proactive Select 180 credits SVC	HG923A1
HP 1Y Add 10 Proactive Select Credit SVC	HG924A1
HP 3Y Proactive Select 30 credits SVC	HK696A3
HP 3Y Proactive Select 90 credits SVC	HG921A3
HP 3Y Proactive Select 180 credits SVC	HG922A3
HP 3Y Proactive Select 540 credits SVC	HG923A3
HP 3Y Add 10 Proactive Select Credit SVC	HG924A3
HP 4Y Proactive Select 40 credits SVC	HK696A4
HP 4Y Proactive Select 120 credits SVC	HG921A4
HP 4Y Proactive Select 240 credits SVC	HG922A4
HP 4Y Proactive Select 720 credits SVC	HG923A4
HP 4Y Add 10 Proactive Select Credit SVC	HG924A4
HP 5Y Proactive Select 50 credits SVC	HK696A5
HP 5Y Proactive Select 150 credits SVC	HG921A5
HP 5Y Proactive Select 300 credits SVC	HG922A5
HP 5Y Proactive Select 900 credits SVC	HG923A5
HP 5Y Add 10 Proactive Select Credit SVC	HG924A5

HP Critical Advantage - 3yr, 4yr, or 5yr

NOTE: Provides an assigned account team to deliver support and maintain uptime of business-critical, virtualized environments. An end-to-end infrastructure support solution (x86 server, OS/hypervisor, storage and network support), Critical Advantage provides flexible reactive hardware service levels, proactive services, and access to the Global Mission Critical Solution Center for business critical applications running on virtualized x86 infrastructures.

NOTE: Choose between Level 2 for 24x7 reactive or Level 3 for 6 hour Call-to- Repair.

Locate more information on Critical Advantage at the following URL:

http://intranet.hp.com/tsg/ams3/services/002/Service_Solutions_MC/Pages/CriticalAdvantage.aspx 5yr Critical Advantage L3 4yr Critical Advantage L3

5yr Critical Advantage L3	HK777A5
4yr Critical Advantage L3	HK777A4
3yr Critical Advantage L3	HK777A3
5yr Critical Advantage L3 w/DMR	HK780A5
4yr Critical Advantage L3 w/DMR	HK780A4
3yr Critical Advantage L3 w/DMR	HK780A3
5yr Critical Advantage L2	HK776A5
4yr Critical Advantage L2	HK776A4
3yr Critical Advantage L2	HK776A3
5yr Critical Advantage L2 w/DMR	HK779A5
4yr Critical Advantage L2 w/DMR	HK779A4

Configuration Information - Factory Integrated Models

3yr Critical Advantage L2 w/DMR

HK779A3

Step 3: Choose Recommended Additions

The following additions are recommended enhancements to HP VirtualSystem for VMware after initial installation - for integration services, please contact HP TS Consulting.

HP TippingPoint S110 100Mbps IPS	JC186A
HP TippingPoint S330 300Mbps IPS	JC187A
HP Matrix Operating Env for ProLiant w/ Insight Control BL incl 1yr 24x7 Support Encl 8 Svr FIO Lic	TC226A
HP Matrix Operating Env for ProLiant w/ Insight Control BL incl 1yr 24x7 Support Encl 16 Svr FIO Lic	TC227A
HP Matrix Operating Environment for ProLiant w/ Insight Control w/1y 24x7 Supp Encl Bndl 8 Svr E-LTU	TC226AAE
HP Matrix Operating Environment for ProLiant w/ Insight Control w/1y 24x7 Supp Encl Bndl 16 Svr E-LTU	TC227AAE
HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Supp Single Svr Lic	TC222A
HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support Flex Qty Lic	TC223A
HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support Tracking Lic	TC224A
HP Matrix Operating Environment for ProLiant with Insight Control incl 1yr 24x7 Support E-LTU	TC225AAE
HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Single Svr Lic	TC228A
HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Flex Qty Lic	TC229A
HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Tracking Lic	TC230A
HP Matrix Operating Env for ProLiant Upgrade from Insight Control incl 1yr 24x7 Supp Electronic Lic	TC231AAE
HP Matrix Operating Environment for non-HP Servers including 1yr 24x7 Support Single Server License	TC234A
HP Matrix Operating Environment for non-HP Servers incl 1yr 24x7 Support Flexible Quantity License	TC235A
HP Matrix Operating Environment for non-HP Servers incl 1yr 24x7 Support Tracking License	TC236A
HP Matrix Operating Environment for non-HP Servers including 1yr 24x7 Support Electronic License	TC237AAE

VMware Software Available from HP

VMw Cloud Suite Std 1yr E-LTU	BD806AAE
VMw Cloud Suite Std 3yr E-LTU	BD807AAE
VMw Cloud Suite Std 5yr E-LTU	BD808AAE
VMw Cloud Suite Adv 1yr E-LTU	BD809AAE
VMw Cloud Suite Adv 3yr E-LTU	BD810AAE
VMw Cloud Suite Adv 5yr E-LTU	BD811AAE
VMw Cloud Suite Ent 1yr E-LTU	BD812AAE
VMw Cloud Suite Ent 3yr E-LTU	BD813AAE
VMw Cloud Suite Ent 5yr E-LTU	BD814AAE
VMware vCenter Server Heartbeat 3yr Support E-LTU	BD729AAE

NOTE: VMware vCenter Server Heartbeat delivers the maximum uptime for your virtual datacenter infrastructure, ensuring seamless failover and failback of VMware vCenter Server

VMware vCenter Chargeback for 25VM 1yr Support E-LTU	BD730AAE
VMware vCenter Chargeback for 25VM 3yr Support E-LTU	BD731AAE
VMware vCenter Operations Standard 25VM 1yr Support E-LTU	BD732AAE
VMware vCenter Operations Standard for 25 Virtual Machines 3 year Support E-LTU	BD733AAE
VMware vCenter Operations Advanced 25VM 1yr Support E-LTU	BD734AAE

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VMware vCenter Operations Advanced 25VM 3yr Support E-LTU	BD735AAE
VMware vCenter Site Recovery Manager Standard for 25VM 1yr Support E-LTU	BD748AAE
VMware vCenter Site Recovery Manager Standard for 25VM 3yr Support E-LTU	BD749AAE
VMware vCenter Site Recovery Manager Enterprise for 25VM 1yr Support E-LTU	BD750AAE
VMware vCenter Site Recovery Manager Enterprise for 25VM 3yr Support E-LTU	BD751AAE
VMware vCloud Director for 25 Virtual Machines Bundle 1 year Support E-LTU	BD742AAE
VMware vCloud Director for 25VM 3yr Support E-LTU	BD743AAE

NOTE: For a full list of VMware software available for use on your HP VirtualSystem for VMware, please see the VMware Virtualization Software For HP ProLiant Servers QuickSpecs:
http://h18004.www1.hp.com/products/quickSpecs/12307_div/12307_div.html

Technical Specifications

HP VirtualSystem for VMware	Dimensions	Height	42U, 78.82 in (200.2 cm)	
		Width	23.54 in (59.8 cm)	
		Depth	42.74 in (108.6 cm)	
	Shipping Dimensions	Height	85.35 in (216.8 cm)	
		Width	35.43 in (90.0 cm)	
		Depth	50.87 in (129.2 cm)	
	Weight (approximate for full rack configuration)	VS1 (maximum configuration)	Static	1581.52 lb (717.37 kg)
			Dynamic	3000lb (1361 kg)
		VS2 (maximum configuration)	Static	2240 lb (1016 kg)
			Dynamic Maximum	3000 lb (1361 kg)
		VS3 (Base) - 2 racks	Static (7400)	1,638.2 (739.7kg)
			Static (V400)	2176.8 lb (976.6 kg)
			Dynamic Maximum	5000 lb (2268 kg)
		VS3 (Midline) - 3 racks	Static (V400)	3881.8 lb (1750.3 kg)
			Dynamic Maximum	7000 lb (3175 kg)
		VS3 (Extended) - 5 racks	Static (V400)	7035.8 lb (3173.3 kg)
			Dynamic Maximum	10000 lb (4536 kg)
		Color	Doors	Graphite Metallic
	Frame		Carbon	
	Clearance (for air flow and access)	Front	48 in (121.9 cm)	
		Rear	30 in (76.2 cm)	
Temperature range	Operating	VS1	50° to 80.4° F (10° to 28° C) Extended	
		VS2	50° to 95° F (10° to 35° C) Base 50° to 95° F (10° to 35° C) Extended	
	VS3	50° to 95° F (10° to 35° C) Base		
		50° to 95° F (10° to 35° C) Midline		
		50° to 95° F (10° to 35° C) Extended		
	Non-Operating	-22° to 140° F (-30° to 60° C)		
	Relative humidity	Operating	15 to 85% relative humidity (Rh) 28°C (82.4°F) maximum wet bulb temperature, non-condensing	
Non-Operating		5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.		
Power Usage - maximum	VS1	9,486 watts (at 250V) - Max		
	VS2	12,424 watts (at 250V) - Max		
	VS3	16,896.4watts (at 250V) - Base 7400		
		19542 watts (at 250V) - Base V400		
		34467 watts (at 250V) - Midline V400		
	63804 watts (at 250V) - Extended V800			
BTU rating, maximum	VS1	39,316 BTU/hour - Max		

Technical Specifications

VS2	42,179 BTU/hour - Max
VS3	57,619.5BTU/hour - Base 7400
	66,639.6 BTU/hour - Base V400
	117,536.6 BTU/hour - Midline V400
	217,577.8 BTU/hour - Extended V800

NOTE: Operating temperature has an altitude derating of 1.8° F (1° C) per 1,000 ft (304.8 m). No direct sustained sunlight. Upper operating limit is 10,000 ft (3,048 m) or 70Kpa/10.1 psia. Upper non-operating limit is 30,000 ft (9,144 m) or 30.3 KPa/4.4 psia.

NOTE: To review maximum system power ratings for facilities planning purposes use the HP Power Advisor at: <http://www.hp.com/go/hppoweradvisor>.

Environmental-friendly products and approach

End-of-life management and recycling

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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