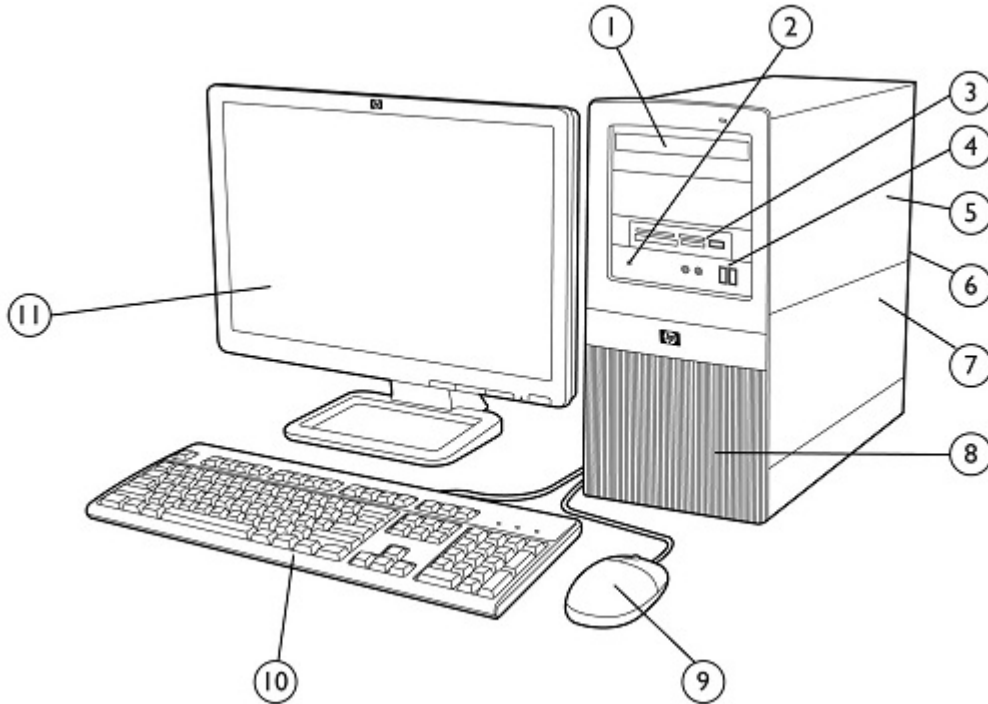


QuickSpecs

HP Pro 3120 Microtower Business PC

Overview (availability varies by configuration and by country)



- | | |
|--|---|
| 1. (2) external 5.25" drive bays for optional optical drives | 7. PCI 2.3 slots, PCIe x1 slots, PCIe x16 slot (see page 9) |
| 2. Reset/recovery button | 8. (2) internal 3.5" hard drive bays |
| 3. (1) external 3.5" drive bay for optional media reader or Pocket Media drive | 9. USB Scroll Mouse |
| 4. Front I/O includes: (2) USB 2.0 ports, dedicated headphone output, microphone jack | 10. USB HP Standard Keyboard |
| 5. Standard efficiency Power Supply or optional energy efficient Power Supply | 11. Monitor (sold separately) |
| 6. Rear I/O includes: USB 2.0 ports (see page 9), serial port (select models), SPDIF out, RJ-45 network interface, DVI-D and VGA video interfaces, microphone jack, audio in/out jacks | |

Overview (availability varies by configuration and by country)

At A Glance

- Genuine Windows 7 versions, Genuine Windows Vista versions, SuSE Linux Enterprise Desktop 11, or FreeDOS
- Choice of Intel® processor
- Choice of integrated graphics or ATI or NVIDIA graphics cards
- Up to 8 GB DDR3 SDRAM system memory available standard (select models)
- Up to 2 TB 3.0 Gb/s SATA hard drive with RAID 0/1 support (select models)
- Choice of optical drives: DVD-ROM, SuperMulti LightScribe DVD Writer, or Blu-Ray Writer
- Integrated Realtek 8111DL Gigabit Ethernet Controller
- HP Wireless 802.11 b/g/n PCIe x1 Card
- USB 2.0 ports
- VGA and DVI-D video port
- Legacy ports (select models)
- Optional energy efficient power supply
- Protected by HP Services. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Standard Features (availability varies by configuration and by country)

Processors

(Availability depends on model; list is subject to change)

Intel Celeron® Processors:

Intel Celeron 450 Processor (2.2 GHz, 512 KB L2 cache, 800 MHz FSB)

Intel Celeron Dual-Core Processors:

Intel Celeron E3300 Processor (2.5 GHz, 1 MB L2 cache, 800 MHz FSB)

Intel Pentium® Dual Core Processors:

Intel Pentium E5400 Processor (2.7 GHz, 2 MB L2 cache, 800 MHz FSB)

Intel Pentium E5500 Processor (2.8 GHz, 2 MB L2 cache, 800 MHz FSB)

Intel Pentium E6500 Processor (2.93 GHz, 2 MB L2 cache, 1066 MHz FSB)

Intel Pentium E6600 Processor (3.06 GHz, 2 MB L2 cache, 1066 MHz FSB)

Intel Pentium E6700 Processor (3.2 GHz, 2 MB L2 cache, 1066 MHz FSB)

Intel Core®2 Duo Processors:

Intel Core 2 Duo E7500 Processor (2.93 GHz, 3 MB L2 cache, 1066 MHz FSB)

Intel Core 2 Duo E7600 Processor (3.06 GHz, 3 MB L2 cache, 1066 MHz FSB)

Intel Core 2 Duo E8500 Processor (3.16 GHz, 6 MB L2 cache, 1333 MHz FSB)

Intel Core 2 Quad Processors:

Intel Core 2 Quad Q8300 Processor (2.5 GHz, 4 MB L2 cache, 1333 MHz FSB)

Intel Core 2 Quad Q8400 Processor (2.66 GHz, 4 MB L2 cache, 1333 MHz FSB)

Intel Core 2 Quad Q9500 Processor (2.83 GHz, 6 MB L2 cache, 1333 MHz FSB)

NOTE: Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

Operating System

Preinstalled

Genuine Windows 7 Professional Edition (32-bit)*
Genuine Windows 7 Professional Edition (64-bit)*
Genuine Windows 7 Home Premium Edition (32-bit)*
Genuine Windows 7 Home Premium Edition (64-bit)*
Genuine Windows 7 Ultimate Edition (32-bit)*
Genuine Windows 7 Ultimate Edition (64-bit)*
Genuine Windows 7 Home Basic Edition (32-bit)*
Genuine Windows 7 Home Basic Edition (64-bit)*
Genuine Windows 7 Starter (limited regions support)*
Genuine Windows Vista Business (32-bit)**
Genuine Windows Vista Home Basic (32-bit)**
SuSE Linux Enterprise Desktop 11
FreeDOS

* System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See <http://windows.microsoft.com/en-us/windows7/products/home> for details.

** Certain Windows Vista product features require advanced or additional hardware. See: <http://www.microsoft.com/windowsvista/getready/hardwarereqs.msp> and <http://www.microsoft.com/windowsvista/getready/capable.msp> for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: <http://www.windowsvista.com/upgradeadvisor>.

Standard Features (availability varies by configuration and by country)

Chipset Intel G43 Express Chipset

Graphics

Integrated Integrated Intel Graphics Media Accelerator X4500HD

Graphics Cards

(List is subject to change)

ATI Radeon HD 4350 HDMI (512MB) FH PCIe x16 Graphics Card
ATI Radeon HD 4550 (512MB) DH PCIe x16 Graphics Card
ATI Radeon HD 4650 (1GB) PCIe x16 Graphics Card
ATI Radeon HD 5450 (1GB) FH PCIe x16 Graphics Card
ATI Radeon HD 5450 (512MB) FH PCIe x16 Graphics Card
ATI Radeon HD 5570 (2GB) FH PCIe x16 Graphics Card
ATI Radeon HD 5570 (1GB) FH PCIe x16 Graphics Card

NVIDIA GeForce G210 HDMI (512MB) PCIe x16 Graphics Card
NVIDIA Geforce GT220 (1GB) FH PCIe x16 Graphics Card
NVIDIA GeForce GT230 (1.5GB) PCIe x16 Graphics Card
NVIDIA GeForce GT315 (1GB) PCIe x16 Graphics Card
NVIDIA GeForce GT315 (512MB) PCIe x16 Graphics Card
NVIDIA GeForce GT320 (1GB) FH PCIe x16 Graphics Card

System Memory

Memory Type PC3-10600 DDR3 SDRAM (1066/1333MHz) non-ECC

Expansion Slots Four (4) DIMM slots

Maximum Memory* 8 GB

Standard Configurations 1-GB (1 x 1GB)
2-GB (2 x 1GB)
2-GB (1 x 2GB)
3-GB (1 x 1GB + 1 x 2GB)
4-GB (4 x 1GB)
4-GB (2 x 2GB)
4-GB (1 x 4GB) select models
5-GB (2 x 2GB + 1 x 1GB)
6-GB (3 x 2GB)
8-GB (4 x 2GB)
8-GB (2 x 4GB) select models

NOTE: Memory runs at maximum system supported speed of 1066 MHz, or at 800 MHz when processor has 800 MHz FSB.

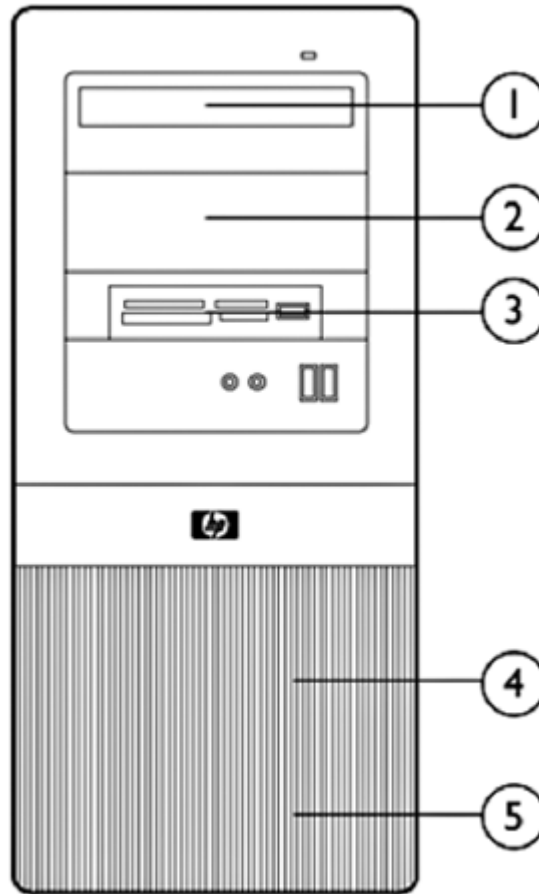
* For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system.

Standard Features (availability varies by configuration and by country)

Storage	Hard Drive (SATA)	3.5-inch, 7200 rpm, 3.0 Gb/s SATA Hard Drive (NCQ, SMART):	
		160 GB	750 GB
		250 GB	1 TB
		320 GB	1.5 TB
		500 GB	2 TB
		640 GB	
		3.5-inch, 5400 rpm, 3.0 Gb/s SATA Hard Drive (NCQ, SMART):	
		1 TB	
		1.5 TB	
		2 TB	
	USB Pocket Media Drive (PMD) and Bay	HP 3.5-inch Pocket Media Drive Bay HP 250GB or 320GB 3.5-inch Pocket Media Drive	
	Media Reader	HP 22-in-1 Media Card Reader	
	Optical Drive (SATA)	DVD-ROM Drive SuperMulti DVD Writer HP SATA Blu-ray Writer	

Bays	Internal	Two (2) 3.5-inch
	External	Two (2) 5.25-inch; One (1) 3.5-inch

Standard Features (availability varies by configuration and by country)



	Maximum Quantity Supported	Position Supported	Controller
Drive Support			
Media Reader	1	3	Internal USB 2.0 port
USB Pocket Media Drive (PMD)	2	1, 2	Internal USB 2.0 port
DVD-ROM Drives	2	1, 2	SATA
SuperMulti Drives	2	1, 2	SATA
HP Blu-Ray Writer	2	1, 2	SATA
3.5" Serial ATA Hard Drives	2	4, 5	SATA

Slots	# PCI 2.3 slots	0
	# PCI Express x1 slots	3
	# PCI Express x16 slots	1
	# MiniPCI slots	0

Standard Features (availability varies by configuration and by country)

Communication

Integrated Realtek 8111DL Gigabit Ethernet Controller
Intel Gigabit CT Desktop NIC
LSI PCIe x1 56K International SoftModem
HP Wireless 802.11 b/g/n PCIe x1 Card

USB Support

EHCI high-speed USB 2.0 controller
Six (6) internal ports on system board:

- 2 for front ports
- 2 for media card reader
- 2 reserved for future upgrade

External USB 2.0 ports

Front	2
Rear	4

Optional HP USB 3.0 4-port SuperSpeed full height PCIe x1 card

Interfaces

One (1) analog VGA video port
One (1) DVI-D video port
One (1) RJ45 network port
One (1) serial port (select models)
One (1) SPDIF out
One (1) audio in; 5.1/7.1 audio channel out; one (1) microphone in

Audio

Realtek ALC888S High Definition audio codec

Input Devices

Keyboard – One of the following

HP USB PS/2 Washable Keyboard
HP USB Standard Keyboard
HP USB Mini Keyboard
HP USB Smartcard Keyboard

Mouse – One of the following

USB 2-Button Optical Scroll Mouse
USB 2-Button Laser Mouse

Miscellaneous

Port Control Cover
HP Chassis Security Kit
HP Parallel Port Adapter
HP Serial Port Full Height Adapter
HP Serial/Parallel PCI Card

Standard Features (availability varies by configuration and by country)

Software	Preinstalled software (varies by country)	<p>Microsoft Office 2007 Ready (select models) or Microsoft Office 2010 Preloaded (purchase of a Product Key required to activate a full Office 2010 suite)* Microsoft Windows Virtual PC - XP Mozilla Firefox for HP Virtual Solutions Hard Disk Partitioning Roxio Creator Business 10 HD ** Corel WinDVD 8*** Corel WinDVD BD for Blu-Ray** McAfee Total Protection Anti-Virus*** PDF Complete 2008 Intel Matrix Storage Manager HP Power Manager v2.0 HP ProtectTools Suite SMB HP Total Care Advisor USB Port Disable Sun Java Runtime Environment HP Sky Room 1.x</p>
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* Microsoft Office 2010 Preloaded includes reduced functionality versions of Word and Excel, unless a full version suite is added to the configuration at additional cost. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and <http://www.office.com>.

** Supporting software available with certain optical drive configurations.

*** 60 day trial period for McAfee Total Protection for Small Business software. Internet access required to receive updates. First update included. Subscription required for updates thereafter.

Security	<p>Padlock loop Kensington Lock Support Noble Universal Clamp Lock Cable Kit</p>
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Power Supply	<p>250W PFC HV immunity (410V/s) and 300W NPFC power supply with a 115v/230v line switch (varies by country/region) as Standard configuration for APJ and LANA regions respectively, and 300W PFC HV immunity (410V/s) with a 115v/230v line switch and 300W 85% Efficiency power supply as option for APJ only</p>
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Model	250W/300W PFC+HV	300W Non-PFC	300W 85% Eff
Rated Voltage Range	100 to 127VAC, or 200 to 240VAC	100 to 127VAC, or 200 to 240VAC	100 – 240 VAC
115V/230V Line switch	Yes	Yes	N/A

Standard Features (availability varies by configuration and by country)

Service and Support

On-site Warranty^{Note 1}: 1-1-1, 3-1-1, 3-3-3, 3-3-3 limited, 4-4-4, 5-5-5 limited warranty delivers on-site, next business-day^{Note 2} service for parts and labor and includes free telephone support^{Note 3} 24 x 7. Global coverage^{Note 2} ensures that any product purchased in one country and transferred to another non-restricted country will remain fully covered under the original warranty and service offering. One-year onsite and labor are not available in all countries.

NOTE 1: Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

NOTE 2: On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

NOTE 3: Technical telephone support applies only to HP-configured Compaq and third-party HP-qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.

After-Market Options (availability varies by configuration and by country)

Communications	NICs	
	Intel Gigabit CT Desktop NIC	FH969AA
	Wireless LAN	
	HP Wireless 802.11/b/g/n PCIe x1	FH971AA
<hr/>		
Hard Disk Drives	HP 1-TB SATA 3.0-Gb/s Hard Drive	VU353AA
	HP 500-GB SATA 3.0-Gb/s Hard Drive	KW347AA
	HP 320-GB SATA 3.0-Gb/s Hard Drive	FH963AA
	HP 250-GB SATA 3.0-Gb/s Hard Drive	PY278AA
	HP 160-GB SATA 3.0-Gb/s Hard Drive	PY277AA
<hr/>		
Input Devices	Keyboards	
	HP USB Smartcard Keyboard no hot keys	ED707AA
	HP standard basic keyboard 2004 USB	DT528A
	HP 2.4GHz Wireless Keyboard & Mouse	NB896AA
	HP USB PS2 Washable Keyboard	VF097AA
	Mice	
	HP USB 2-Button Optical Scroll Mouse	DC172B
HP USB 2-Button Laser Mouse	GW405AA	
<hr/>		
Memory	HP 1GB PC3-10600 (DDR3-1333) DIMM	AT023AA
	HP 2GB PC3-10600 (DDR3-1333) DIMM	AT024AA
	HP 4GB PC3-10600 (DDR3-1333) DIMM	VH638AA
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Audio	HP Thin USB Powered Speakers	KK912AA
	HP USB 3.0 SuperSpeed PCIe x1 Card	BM867AA
<hr/>		
Graphics	ATI Radeon HD 4550 (512MB) DH PCIe x16 Graphics Card	SG764AA
	HP DVI to DVI monitor cable (for all DVI enabled flat panels)	DC198A
	HP DMS59 with dual-head DVI Y cable	DL139A
<hr/>		
Security	HP Business PC Security Lock Kit	PV606AA
	HP/Kensington MicroSaver Security Cable Lock	PC766A
	HP Chassis (dc) Security Kit	AR639AA

System Unit Specifications

System Unit	Dimensions (HxWxD)	15.1 x 7.27 x 16.16 in 384 x 185 x 410 mm
	Weight	16.7 lb (7.58 kg)
	Packaging Dimensions (DxLxW)	19.63 x 24.13 x 10.56 in 498.6 x 613 x 268.2 mm
	Shipping Weight	24.77 lb (111.24 kg)
	Temperature	Operating 41° to 95° F (5° to 35° C) Non-operating -22° to 149° F (-30° to 65° C)
	Relative Humidity	Operating 10% to 90% (non-condensing at ambient) Non-operating 5% to 95% (non-condensing at ambient)
	Shock	Operating 35 G, half-sine Non-operating 30 G, half-sine
	Maximum Altitude (unpressurized)	Operating 10,000 ft (3048 m) Non-operating 30,000 ft (9144 m)

For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

Unit Environment and Operating Conditions

General Unit Operating Guidelines

- Keep the computer away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that unit is operated within the specified operating range.
- Leave a 4 in (10.2 cm) clearance on all vented sides of the computer to permit the required airflow.
- Never restrict airflow into the computer by blocking any vents or air intakes.
- Do not stack computers on top of each other or place computers so near each other that they are subject to each other's re-circulated or preheated air.
- Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow.
- If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply.

Eco-Label Certifications & declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration

	115 VAC	230 VAC	100 VAC
Energy Consumption			
Normal Operation	68.637 W	68.393 W	68.763 W
Sleep (Energy Star low power mode)	2.8911 W	3.0913 W	2.8888 W
Off	1.0867 W	1.2908 W	1.0597 W
Heat Dissipation*			
Normal Operation	235 BTU/hr	234 BTU/hr	235 BTU/hr
Sleep	10 BTU/hr	11 BTU/hr	10 BTU/hr
Off	4 BTU/hr	4 BTU/hr	4 BTU/hr

System Unit Specifications

* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

System Fan Off	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	3.8	33
Fixed Disk (random writes)	4.4	34

Batteries

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

- Mercury greater the 5ppm by weight
- Cadmium greater than 10ppm by weight

Battery size: CR2032 (coin cell)

Battery type: Lithium

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 0% post consumer recycled plastic (by wt.)
- This product is 90% recyclable when properly disposed of at end of life.

Packaging Materials

- External:
 - Corrugated Carton 1405 g
- Internal:
 - EPS (Expanded Polystyrene) 85 g
 - Other Plastics Unknown 6.3 g
 - Polyethylene low density 3.2 g
 - Polystyrene 6.8 g
- The Corrugated Carton packaging material is made from 85% recycled content.
- The EPS (Expanded Polystyrene) packaging material is made from 85% recycled content
- The Other Plastics Unknown packaging material is made from 85% recycled content
- The Polyethylene low density packaging material is made from 85% recycled content
- The Polystyrene packaging material is made from 85% recycled content

RoHS Compliance

Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

System Unit Specifications

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at:

http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
- Nickel finishes that release greater than 0.5 micro-grams/cm²/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users.

Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> 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/recyclers>. 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.

Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Eco-label certifications

System Unit Specifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

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