

# Nordic Information Technology Organisation's



**IT-Företagen**

Association of the Swedish IT and Telecom Industry  
www.itforetagen.se  
Sweden



Norwegian IT-companies Organisation  
www.ikt-norge.no  
Norway



IT-Brancheforeningen Kontor & Data  
www.itb.dk  
Denmark

## ECO Declaration

### Information Technology (IT) Products

July 2000

This declaration covers the following product(s) with specified product identity (ID), type/model numbers: Each marked product category must be identified below				
<input type="checkbox"/> Computer system unit (CPU)	<input type="checkbox"/> CRT display/monitor	<input type="checkbox"/> LCD display/monitor	<input type="checkbox"/> Keyboard	<input type="checkbox"/> Mobile/portable computer
<input type="checkbox"/> Server	<input type="checkbox"/> Copier*	<input type="checkbox"/> Laser printer*	<input type="checkbox"/> Inkjet printer*	<input type="checkbox"/> Matrix printer*
<input type="checkbox"/> Fax*	<input type="checkbox"/> Scanner*	<input type="checkbox"/> Multifunction product*, specify:		
<input checked="" type="checkbox"/> Other product, specify: Storage Shelf				
*) pages per minute:		bl/w: colour:		
<b>Model/type/sales name:</b>		HP StorageWorks M5314A FC Drive Enclosure		
<i>Please use separate ECO declarations for telecommunication equipment.</i>				

Brand <b>Hewlett-Packard</b>		Manufacturer <b>Hewlett-Packard Co</b>	
Manufacturer's representative <b>Product Steward, WWPL location, Country</b>		Contact person <b>Hans Wendschlag, HP Sweden</b>	
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Additional information <b>Version:2005-12-09</b>			

### CONDITIONS FOR DECLARATION USE

(excerpts from the contract text, for full text, see the "ECO Declaration Guideline"):

Any company wishing to use this declaration must meet the following requirements:

- sign a contract with one or more of the Nordic IT Organisations and pay the service fee
- state compliance to the specific requirements, only if this can be verified via certificates, test reports or signed documents
- the declaration must be completed in accordance with the instructions given in the "ECO Declaration Guideline".
- respond to all obligatory requirements marked with an "O" (response required), "O(\$)" (response required by law) applicable to the declared product category, ("V" = voluntary information);
- in case of incorrect information, immediately correct the issued declarations and notify customers
- on request notify the Nordic IT Organisations of how many declarations have been issued

This version of the ECO declaration shall be used for products announced after July 2000 and can be used for products announced from January 2000.

Version/date:

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Model:

**This Eco declaration for Information Technology (IT) products may only be used after having signed a contract with at least one of the Nordic IT-Organisations, ITB in Denmark, IKT-Norge in Norway or IT-Företagen in Sweden.**

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Item	n/a = not applicable	Type of requirement	Requirement fulfilled		
			Yes	No	n/a
<b>1</b>	<b>Environmental policy &amp; Environmental management</b>				
1.1	The manufacturer has a documented environmental policy approved by the management.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.2	The manufacturer has an environmental management system: <input type="checkbox"/> certified by ISO 14001, <input type="checkbox"/> EMAS, <input type="checkbox"/> other/internal system	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.3	The manufacturer regularly publishes an environmental report.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>2</b>	<b>Environmental conscious design</b>				
2.1	The product is designed for easy disassembly during recycling. Gluing/welding/painting of different materials has been avoided.	O	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.2	Large mechanical plastic parts consist of one material or of easy separable materials.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.3	All plastic parts, heavier than 25g have material codes according to ISO11469 All plastic parts, heavier than 25g have material codes according to ISO 1043 <input checked="" type="checkbox"/> part 1 <input type="checkbox"/> part 2 <input type="checkbox"/> part 3 <input type="checkbox"/> part 4 <input type="checkbox"/> not known	O V	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
2.4	Chemical specification of flame retardant in plastic parts over 25g: Product cover/housing <input type="checkbox"/> PBB/PBDE <input type="checkbox"/> TBBPA <input checked="" type="checkbox"/> Other <input type="checkbox"/> None Other plastic parts <input type="checkbox"/> PBB/PBDE <input type="checkbox"/> TBBPA <input checked="" type="checkbox"/> Other <input type="checkbox"/> None Printed circuit boards <input type="checkbox"/> PBB/PBDE <input checked="" type="checkbox"/> TBBPA <input type="checkbox"/> Other <input type="checkbox"/> None	O O O	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Info Info Info	
2.5	Product cover/housing material specification      Material type Zinc Plated Steel Material type PC+ABS Material type	O O O	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Info Info Info	
2.6	Electrical cable insulation material specification <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Other <input type="checkbox"/> Not known	V	<input checked="" type="checkbox"/>	Info	
2.7	CFCs, HCFCs, asbestos, PCB and PCT are not present in the product.	O(\$)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.8	Mercury is not present in the product.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.9	Cadmium is not present in plastic materials and CRTs (Cathode Ray Tubes).	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.10	Lead is not present in mechanical plastic parts heavier than 25g	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.11	Chloroparaffins with chain length 10-13 C atoms, chlorinated greater than 50% are not present in mechanical plastic parts heavier than 25g.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.12	Special tools are not needed to upgrade the product.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.13	Processor, memory and cards of various types can be changed/ upgraded.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.14	Hard disk and/or floppy drive can be changed/ upgraded.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3</b>	<b>Batteries</b>				
3.1	Batteries, defined as hazardous in the EU Directive 91/157/EEC are not used in the product.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.2	If batteries, defined as hazardous are used in the product these are labelled according to the EU Directive 93/86/EEC.	O(\$)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4</b>	<b>Energy consumption</b>				
4.1	Operation, colour: W bl/w: 487 W Stand by/Idle 300 W Low energy state/Sleep mode W Off mode W If stand by/idle, reverts to low energy-/sleep-/off mode state in: min.	V O O O V	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Value Value Value Value Value	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
4.2	Automatic 2-sided printing/copying from 1-sided originals.	O	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.3	Information about the energy save function is given in the user manual.	O	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.4	The product meets the requirements of ENERGY STAR®.	O	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>5</b>	<b>Noise characteristics</b>				
5.1	Sound power level: Operation: L <sub>WAd</sub> 7.0 B L <sub>WA</sub> 6.6 B L <sub>WAI</sub> N/A B Stand by/Idle: L <sub>WAd</sub> 6.9 B L <sub>WA</sub> 6.5 B L <sub>WAI</sub> N/A B	V V	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Value Value	<input type="checkbox"/> <input type="checkbox"/>
5.2	Sound pressure level, <input checked="" type="checkbox"/> LpAm, <input type="checkbox"/> LpA: Operation: 51 dB measurement dist. <input type="checkbox"/> 0,5 m, <input checked="" type="checkbox"/> 1 m, <input type="checkbox"/> m Stand by/Idle: 50 dB measurement dist. <input type="checkbox"/> 0,5 m, <input checked="" type="checkbox"/> 1 m, <input type="checkbox"/> m	V V	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Value Value	<input type="checkbox"/> <input type="checkbox"/>

Item	n/a = not applicable	Type of requirement	Requirement fulfilled		
			Yes	No	n/a
<b>6</b>	<b>Emissions</b>				
	<b>Copiers, printers, faxes, multifunction products:</b>				
6.1	Dust, measured according to RAL-UZ <span style="float: right;">mg/m<sup>3</sup></span>	O	← Value		<input checked="" type="checkbox"/>
6.2	Ozone, measured according to RAL-UZ <span style="float: right;">mg/m<sup>3</sup></span>	O	← Value		<input checked="" type="checkbox"/>
6.3	Styrene, measured according to RAL-UZ <span style="float: right;">mg/m<sup>3</sup></span>	V	← Value		<input checked="" type="checkbox"/>
	<b>Displays and portable computers:</b>				
6.4	Display/portable computer meets the requirements regarding electromagnetic fields according to: MPR-II <input type="checkbox"/> , TCO-92/95 <input type="checkbox"/> , TCO-99 <input type="checkbox"/> , prEN50279- A <input type="checkbox"/> , -B <input type="checkbox"/> , -C <input type="checkbox"/>	O	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>7</b>	<b>Electrical safety, EMC and connection to the telephone network</b>				
7.1	The product meets the Low Voltage Directive (LVD) regarding electrical safety.	O(\$)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.2	The product meets the EMC Directive regarding electromagnetic compatibility.	O(\$)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.3	If the product is connected to a public telecom network, it must meet the requirements of 1999/5/EC directive.	O(\$)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7.4	The product is CE-marked.	O(\$)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>8</b>	<b>Consumable materials (copiers, printers, faxes, multifunction products)</b>				
8.1	The photo conductor (drum, belt etc.) does not contain cadmium.	O(\$)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.2	The photo conductor does not contain selenium.	O	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.3	If the photo conductor contains selenium there is a system for waste recovery.	O	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.4	Toner/ink (or corresponding) is classified and if required labelled in accordance with EU Directive.	O(\$)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.5	Ink does not contain cadmium.	O(\$)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.6	Paper containing recycled fibres and meeting the requirements of ENV 12281:1996, can be used in the product.	V	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9</b>	<b>Ergonomics</b>				
9.1	The computer system meets the ergonomic requirements of EN 29241-3, -7, -8.	O	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.2	The product keyboard meets the requirements of ISO 9995 and EN 29241-4.	O	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10</b>	<b>Packaging and documentation</b>				
10.1	The product package material does not contain heavy metals according to 94/62/EC.	O(\$)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.2	The product package material does not contain CFC/HCFC.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.3	Product packaging: Material type: Corrugated weight: 3.50 kg	O	← Value		<input type="checkbox"/>
	Material type: EPP weight: .86 kg	O	← Value		<input type="checkbox"/>
	Material type: EPS weight: .45 kg	O	← Value		<input type="checkbox"/>
	Material type: weight: kg	O	← Value		<input type="checkbox"/>
10.4	The company participates in/ has its own system for collection and recycling of packaging material.	O(\$)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10.5	Plastic packaging material is marked acc. to DIN6120, ISO11469 or ISO1043-1 to 4.	V	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.6	User and product documentation is printed on non chlorine bleached paper.	V	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>11</b>	<b>Recycling</b>				
11.1	The company has a system for reuse/ recycling of the product.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11.2	Information about the system according to 11.1 can be found in the user manual or as specified under item 12 below.	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12</b>	<b>Additional information</b>				
	Environmental declarations for other HP products can be found on at: <a href="http://www.hp.se/miljo">www.hp.se/miljo</a> , and <a href="http://www.hp.se/environment">www.hp.se/environment</a> for an English version of the Swedish environmental web site				
10.4	HP Sweden is a member of REPA, <a href="http://www.repa.se">www.repa.se</a> . For nearest packaging collection point, call REPA: 0200-880310.				
11.2	HP is member of EL-RETUR, a system for take back of electrical and electronic products in Norway <a href="http://www.elretur.no">www.elretur.no</a> . HP is also member of EL-KRETSEN in Sweden <a href="http://www.el-kretsen.se">www.el-kretsen.se</a> . For information about take back in Finland and Denmark, please contact local HP.				

## 2 Environmental conscious design

- 2.1 Some examples of environmental conscious design:
- PCBs are not enamelled
  - Plastic fittings are not painted or metal-coated
  - Metal fitting, cables and PCBs are not plasticised
  - Batteries are not installed (soldered) directly on the PCB
- Product labelling does not impede recycling
- 2.4 These flame retardants are:
- decabrombiphenyl CAS no 13654-09-6
  - pentabromdiphenyleter CAS no 32534-81-9
  - octabromodiphenyleter CAS no 32536-52-0
  - decabromodiphenyleter CAS no 1163-19-5
- SE: Has announced to notify the EU to prohibit the above mentioned flame retardants.
- Most common is TBBPA (Tetrabromobisphenol A).
- Applies to all IT products with printed circuit boards. Does not apply to the components on the board.
- 2.7-2.11 Refers to substance levels which do not exceed natural background levels.
- 2.7 CFC/HCFC: according to SFS 1995:636, EU-Directive 3093/94/EEC group I, II and VIII and the 1987 Montreal Protocol (September 1997 version). PCB/PCT: according to 1985:837.
- 2.8 SE: According to SFS 1996:319 mercury is prohibited in relays, level indicators, pressure switches, temperature regulators/thermostats, electrical switches and contacts for continuous current transmission. Mercury can occur in small amounts in fluorescent tubes and shall after use be treated as hazardous waste.
- 2.10 SE: The requirement can be found in the Swedish ordinance SFS 1998:944.
- 2.3, 2.9, 2.10, 2.11 Examples of mechanical plastic parts are product covers/housings and similar construction details.

## 4 Energy consumption

- The energy consumption is given as a mean value during a typical period of time.
- 4.1 Nordic recommendations for energy efficient products follow the voluntary US EPA system, called ENERGY STAR®. From 1998-01-01 the NUTEK requirement for displays has been incorporated into the new EPA MOU. For more information, see: [www.epa.gov/office.html](http://www.epa.gov/office.html).

## 5 Noise characteristics

Sound is measured on a basic machine without accessories (e.g. sorter, document feeder).

LWAd = declared A-weighted sound power level rel 1pW.

LWA = measured on one product sample. To compare with LWAd, 0.3 B has to be added to compensate the measurement uncertainty.

LWAI = including impulsive noise according to RAL-UZ62. Measured on one sample. Not comparable with LWAd or LWA.

1B = 10 dB. Observe! This formula can NOT be used to calculate the sound power level to sound pressure level.

**Observe!** To be able to compare the noise levels from two products, sound power is used. If sound pressure is used, the measurements must be performed according to the same standard, at the same distance and during the same operational conditions.

## 6 Emissions (Dust, Ozone, VOC)

### Copiers, printers, faxes, multifunction products:

- 6.1-6.3 RAL-UZ is a German standard used for ECO-labelling of products. Does not apply to inkjet printers.

## Displays and portable computers:

- 6.4 Extensive research has not been able to demonstrate any negative health effects caused by electromagnetic fields from visual displays. EU Directive as well as Nordic national regulation exists, but legally binding hygienic limit values do not exist. Since 1986, the market in Northern Europe has demanded visual displays with reduced electromagnetic fields. According to prEN50279 (which is based on the Swedish standard SS4361490), electromagnetic fields are specified in three categories:

PrEN50279 category:	A	B	C
Approximately equivalent to the levels according to	TCO-99	MPR-II	--

Category C has no recommended levels for electrostatic and electrical fields, band I. This category is intended for electrical products, insulation class II without protective earth. The standard has a higher level of requirements on the test laboratory. Additionally it contains a section on measuring electromagnetic fields in the office environment and the inaccuracy of such measurements. Observe that that the criteria can normally only be met if the product is connected to a grounded wall outlet. In year 2000, pr EN 50279, is expected to be adopted as a European Norm (EN).

Applies to visual stand alone displays and portable computers.

## 7 Electrical safety, EMC and connection to the telecom. network

The product shall meet the applicable EU directives:

Low Voltage Directive (LVD), 73/23/EEC & 93/68/EEC for electrical safety. EMC Directive, 89/336/EEC, for electromagnetic compatibility. If the product is connected to a public telecom network, the product must meet the Directive 1999/5/EC on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

The CE-mark is the manufacturer's confirmation to National authorities that the product meets applicable EU-Directives. On request by the authority the manufacturer must be able to present an EC Declaration of Conformity and/or technical file/test report. The eco-declaration does not replace the EC Declaration of Conformity.

## 9 Ergonomics

- 9.1 EN29241-3 specifies visual ergonomic requirements for computer systems, including operating system and fonts.
- 9.2 Applies to standard keyboards, does not apply to portable computer keyboards.

## 10 Packaging and documentation

- 10.4 SE: The requirements can be found in SFS 1997:185. The company must see to that used packaging is collected and recycled, either by having an own system or being a part of a general system, such as the REPA-register.

## 11 Recycling

- 11.1 SE: The Swedish regulation (SFS 2000:208) on producer responsibility for electric and electronic products is in force since July 1st 2001. El-Kretsen AB – a service company – has been established by the electrical- and electronic industry to support them in this responsibility. Many IT- and telecom companies are part of this collection system (*elretur*). Other companies have their own systems or contracts with recycling companies.

DK: Regulation in force from December 1st 1999.

NO: Regulation is enforced July 1st 1999.