


# THE ECO DECLARATION



## Product environmental attributes – THE ECO DECLARATION


<b>Brand *</b>	<i>Hewlett-Packard</i>	<b>Logo</b> 
<b>Company name *</b>	<i>Hewlett-Packard Company</i>	
<b>Contact information *</b>	<i>Hans Wendschlag</i> <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/contactemail.html">http://www.hp.com/hpinfo/globalcitizenship/environment/contactemail.html</a>	
<b>Internet site *</b>	<a href="http://www.hp.com/hpinfo/globalcitizenship/environment/">http://www.hp.com/hpinfo/globalcitizenship/environment/</a>	
<b>Additional information</b>		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
<b>Type of product *</b>	<i>Business Desktop PC</i>
<b>Commercial name *</b>	<i>HP Compaq dx2810 Small Form Factor PC</i>
<b>Model number *</b>	<i>dx2810 SFF</i>
<b>Issue date *</b>	<i>14-Feb-09</i>
<b>Intended market *</b>	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Japan <input type="checkbox"/> U.S. <input type="checkbox"/> Other
<b>Additional information</b>	


This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

The declaration may be published only when all rows and/or fields marked with a \* are filled-in (n.a. for not applicable).


Quality Control		Requirement met	
Item	Additional information regarding each item may be found under P14.	Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see <a href="http://www.itforetagen.se">http://www.itforetagen.se</a> ).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Model number *	dx2810 SFF	Logo 
Issue date *	14-Feb-09	


Product environmental attributes - Legal requirements		Requirement met		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
<b>P1 Hazardous substances and preparations</b>				
P1.1*	Products do not contain lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) as specified in <i>EU 2002/95/EC and its amendments</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos ( <i>EU 76/769/EEC, amendment 1999/77/EC</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide ( <i>EU : Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain polychlorinated biphenyl (PCB), polychlorinated terphenyl (PCT), ( <i>EU 76/769/EEC</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP as specified in <i>Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3-dibromopropyl)-phosphate (TRIS), Tris-(aziridiny)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) ( <i>EU 76/769/EEC</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.7*	Textile and leather parts with direct skin contact do not contain Azo colourants that split aromatic amines as specified in <i>EU 76/769/EEC, amendment 2003/3/EC</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives ( <i>EU 76/769/EEC</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations higher than specified in <i>76/769/EEC, amendment 94/27/EEC</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P2 Batteries</b>				
P2.1*	If hazardous batteries (as defined in <i>91/157/EEC</i> ) are used in the product they are easily removable and labelled with the disposal and the substance logo (as defined in <i>91/157/EEC, 93/86/EEC</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P2.2*	If batteries are used in the product they do not contain mercury in concentrations higher than specified in <i>91/157/EEC</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	If batteries are permanently installed in the product, information on the environmentally hazardous substances and safe removal method is listed in the user manual ( <i>91/157/EEC</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P3 Electrical safety, EMC and connection to the telephone network</b>				
P3.1*	The product meets the Low Voltage Directive (LVD) regarding electrical safety ( <i>73/23/EEC &amp; 93/68/EEC</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product meets the EMC Directive regarding electromagnetic compatibility ( <i>89/336/EEC / 2004/108/EEC after June, 20<sup>th</sup> 2007</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it meets the EU R&TTE Directive ( <i>1999/5/EC</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.4*	The product is CE-marked and a Declaration of Conformity is available ( <i>93/68/EEC</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P4 Consumable materials</b>				
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium in concentrations higher than specified in ( <i>76/769/EEC and 91/338/EEC</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P4.2*	If ink/toner is used in the product, it does not contain cadmium in concentrations higher than specified in ( <i>76/769/EEC and 91/338/EEC</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to EU Directive 1999/45/EC, and as amended, the product/packaging is labelled and a Material Safety Data Sheet (MSDS) in accordance with ( <i>99/45/EC &amp; 2001/58/EC</i> ) is available.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P5 Product packaging</b>				
P5.1*	The sum of the concentration levels of lead, cadmium, mercury, and hexavalent chromium present in packaging or packaging components does not exceed 0,01% by weight ( <i>94/62/EC</i> ).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043. ( <i>97/129/EEC</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from CFC/HCFC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P6 Treatment information</b>				
P6.1*	Information for recyclers/treatment facilities (e.g. as requested by 2002/96/EC) is available.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Model number *	dx2810 SFF	Logo 
Issue date *	14-Feb-09	

Product environmental attributes - Market requirements - Environmental conscious design				Requirement met		
Item	* = mandatory to fill in. Additional information regarding each item may be found under P14.			Yes	No	n.a.
<b>P7 Design, Disassembly, recycling</b>						
P7.1*	Parts that have to be treated separately are easily separable			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Product lifetime</b>						
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.9.	Spare parts are available after end of production for: 5 years					<input type="checkbox"/>
P7.10	Service is available after end of production for: 5 years					<input type="checkbox"/>
<b>Material and substance requirements</b>						
P7.11*	Product cover/housing material type: Material type: ABS 94HB                      Material type:                      Material type:					
P7.12*	Electrical cable insulation material of power cables are halogen free (including PVC)			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.13*	Electrical cable insulation material of signal cables are halogen free (including PVC)			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.14	All cover/housing plastic parts >25g are halogen free			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.15	All printed circuit boards (without components) >25g are halogen free			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.16	Chemical specifications of flame retardants in cover / housing plastic parts >25g according ISO 1043-4:			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.17	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: TBBP-A			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	Weight of recycled material in plastic parts is 0					
P7.19	Plastic parts >25g are free from flame retardant substances/preparations above 0.1% classified as R45/46, R50/51/53 and R60/61 (67/548/EEC)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.20	Light sources are free from mercury If mercury is used specify: Number of lamps:                      and max. mercury content per lamp:                      mg			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P8 Batteries</b>						
P8.1*	Product does not contain batteries defined as hazardous according to 91/157/EEC			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P8.2*	Battery chemical composition: LITHIUM					<input type="checkbox"/>
P8.3	Batteries meet the requirements of the following voluntary program/s:					<input type="checkbox"/>
<b>P9 Energy consumption</b>						
9.1	<a href="#">For the product the following power levels or energy consumptions have been measured:</a>					
Mode	Power level at * Volts	Time (s) to <mode>	Mode description	Reference/ Standard	n.a.	
On-max	W		*	*	<input type="checkbox"/>	
On-normal	* W	to	*	*	<input type="checkbox"/>	
On-idle	W	to	*	*	<input type="checkbox"/>	
Save 1	* W	to	*	*	<input type="checkbox"/>	
Save 2	W	to	*	*	<input type="checkbox"/>	
Off 1	* W	to	*	*	<input type="checkbox"/>	
Off 2	W	to	*	*	<input type="checkbox"/>	
No load	* W		External power supplies/charger plugged in but disconnected from the product	*	<input type="checkbox"/>	
TEC	* kWh/y Typical Energy Consumption per year			*	<input checked="" type="checkbox"/>	
P9.2*	Information about the energy save function is provided with the product.			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P9.3	The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® MOU (Ver. 4.0, Tier 1) Others specify:			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Model number *	dx2810 SFF	Logo 
Issue date *	14-Feb-09	

Product environmental attributes - Market requirements (continued)				Requirement met			
Item	* = mandatory to fill in. Additional information regarding each item may be found under P14.			Yes	No	n.a.	
<b>P10 Emissions</b>							
<b>Noise emission – Declared according to ISO 9296</b>							
P10.1	Mode	Mode description	Declared A-weighted sound power level $L_{WA,d}$ (B)	Declared A-weighted sound pressure level $L_{pAm}$ (dB)			
				Operator position <input checked="" type="checkbox"/>	Bystander positions <input type="checkbox"/>		
				Desktop or Deskside <input checked="" type="checkbox"/>	(only if product is not operator attended)		
	Idle	* Fans on, HDD spinning (if applicable)	* 4.3	33			
	Operation	* Fans on, HDD spinning	* 4.4	34			
	Other mode						
	Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input checked="" type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74 with $L_{pAm}$ measurement distance m)						
P10.2	The product meets the acoustic noise requirements of the following voluntary program/s:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Chemical emissions from printing products</b>							
P10.3*	Test performed according to ECMA-328 standard <input type="checkbox"/> , other specify:				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	The test covers: Dust <input type="checkbox"/> Ozone <input type="checkbox"/> Styrene <input type="checkbox"/> Benzene <input type="checkbox"/> TVOC <input type="checkbox"/>						
P10.4	The product meets the chemical emission requirements of the following voluntary program/s:				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Electromagnetic emissions</b>							
P10.5	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P11 Consumable materials for printing products</b>							
P11.1*	A Material Safety Data Sheet (MSDS) is available for the ink/toner preparation, even if not legally required (see P4.3).				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P11.2*	Paper containing recycled fibres that meets the requirements of EN12281 can be used.				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P11.3*	2-sided (duplex) printing/copying is an integrated product function.				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P12 Ergonomics for computing products</b>							
P12.1*	The computer system meets the ergonomic requirements of EN 29241-3, -7, -8 for CRT displays and EN-ISO13406-2 for flat panel displays.				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P12.2*	The product keyboard meets the requirements of ISO 9995 and EN 29241-4.				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12.3*	The computer input device meets the requirements of ISO 9241-9.				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P13 Packaging and documentation</b>							
P13.1*	Product packaging material type(s): Polyethylene low density weight (kg): 0.01702 Product packaging material type(s): EPE-Expanded Polyethylene weight (kg): 0.01094 Product packaging material type(s): Wood weight (kg): 13.36				<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P13.2*	Product plastic packaging is halogen free (including PVC)				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	User and product documentation do not contain chlorine bleached paper				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.4*	User and product documentation contain recycled paper				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Model number *	<a href="#">dx2810 SFF</a>	Logo 
Issue date *	<a href="#">14-Feb-09</a>	

<b>P9</b>	<b>Energy consumption</b>				
9.1	<a href="#">For the product the following power levels or energy consumptions have been measured:</a>				
Power Consumption Mode Description	Power Consumption AC Input Voltage at 100 VAC +/- 5 VAC, 50 Hz +/- 3 Hz	Power Consumption AC Input Voltage at 115 VAC +/- 5 VAC, 60 Hz +/- 3 Hz	Power Consumption AC Input Voltage at 230 VAC +/- 5 VAC, 50 Hz +/- 3 Hz	Default Time Settings to Enter Energy Saving Mode	Reference Standard (test method)
<b>On-Idle (ENERGY STAR® Idle (S0))</b>	82.880W	82.764W	81.851W	Not Applicable	ENERGY STAR® Program Requirements for Computers: Ver. 4.0
<b>ENERGY STAR® "Sleep" (S3) (WOL enabled)</b>	2.3640W	2.4049W	2.4322W	30 minutes (system unit)	ENERGY STAR® Program Requirements for Computers: Ver. 4.0
<b>ENERGY STAR® "Standby" (Off) (S5) (WOL disabled)</b>	1.1852W	1.2309W	1.2604W	Not Applicable	ENERGY STAR® Program Requirements for Computers: Ver. 4.0
<b>P14</b>	<b>Additional information</b>				
<b>All sections</b>	1. Product environmental information contained in this declaration is valid as of the date the declaration is published. Changes to external standards referenced in the IT Eco-Declaration may invalidate some information contained in this declaration over time.				
<b>P9</b>	<p>1. Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family . HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured model.</p> <p>2. For more information about HP's ENERGY STAR® qualified products, go to hp.com: <a href="http://www.hp.com/">http://www.hp.com/</a> and select the applicable market segments and product categories for more information.</p> <p>3. Energy Efficiency information published on the ECMA 370 The Eco Declaration represents a typically configured product base model meeting ENERGY STAR® specifications if offered within the model family. If optional components or modules are added, like extra hard disks or graphic cards etc, these can change the energy efficiency data listed above.</p> <p>4. Power consumption in the Off / Apparent Off mode is measured and reported with the network interface controller (NIC) WOL disabled.</p>				
<b>P10</b>	1. Acoustic noise information published on the ECMA 370 The Eco Declaration represents a typically configured product base model only. If optional items with moving parts are added, like extra hard disks or graphic cards with fans etc, these can change acoustic noise values for which HP can take no responsibility.				

**NOTE:**

Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the [Enter] key.