

# THE ECO DECLARATION



## Company environmental profile - THE ECO DECLARATION

<b>Brand</b>	<b>RICOH</b>	<b>Logo</b> 
<b>Company name *</b>	<b>RICOH Company Ltd.</b>	
<b>Contact information</b>	<b>Ricoh Europe Plc 20 Triton Street, London NW1 3BF, United Kingdom emo@ricoh-europe.com</b>	
<b>Internet site *</b>	<b>www.ricoh.com</b>	
<b>Issue date *</b>	<b>09 August 2011</b>	
<b>Intended market *</b>	<input type="checkbox"/> Global <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <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 an \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under C6 & P14.

<b>Quality control</b>		<b>Requirement met</b>	
Item		Yes	No
QC1 *	The company enforces an internal quality control system 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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<b>Company environmental profile - Legal requirements</b>		<b>Requirement met</b>		
Item		Yes	No	n.a.
<b>C1</b>	<b>Product recycling</b>			
C1.1 *	The company participates in a system or has its own system for collection and recycling of end of life products in countries where the company puts them on the market and where required (2002/96/EC WEEE directive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>C2</b>	<b>Battery recycling</b>			
C2.1 *	The company participates in a system or has its own system for collection and recycling of batteries in countries where the company puts products on the market (2006/66/EC Battery and accumulators Directive) or pays eco tax / fee where required.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>C3</b>	<b>Packaging recycling</b>			
C3.1 *	The company participates in a system or has its own system for collection and recycling of packaging material in countries where the company puts products on the market and where required (2004/12/EC Directive on packaging and packaging waste)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<b>Company environmental profile - Market requirements</b>		<b>Requirement met</b>		
Item		Yes	No	n.a.
<b>C4</b>	<b>Environmental policy and environmental management</b>			
C4.1 *	The company has a documented environmental policy approved by the management.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C4.2 *	The company has an environmental management system covering: Product development Manufacturing If so certified according to: <input checked="" type="checkbox"/> ISO 14001 <input type="checkbox"/> Other as specified in C6	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
C4.3	The company regularly publishes an environmental report. If so, it meets the recommendations of <input checked="" type="checkbox"/> The Global Reporting Initiative <input type="checkbox"/> Other as specified in C6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>C5</b>	<b>Recycling</b>			
C5.1 *	Information about the product, battery & packaging take back system (C1, C2, C3) is available in printed or electronic format.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>C6</b>	<b>Additional information</b>			

## Product environmental attributes – THE ECO DECLARATION

<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>	
<b>Type of product *</b>	<b>Printer</b>
<b>Commercial name *</b>	<b>SP 5210SF</b>
<b>Model number *</b>	<b>Aficio SP 5210SF</b>
<b>Issue date *</b>	<b>09 August 2011</b>

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<b>Model number *</b>	<b>Aficio SP 5210SF</b>	<b>Logo</b>	<b>RICOH</b>
<b>Issue date *</b>	<b>09 August 2011</b>		

<b>Product environmental attributes - Legal requirements</b>		<b>Requirement met</b>		
Item		Yes	No	n.a.
<b>P1 Hazardous substances and preparations</b>				
P1.1*	Products do not contain lead max 0.1%, cadmium max 0.01%, mercury max 0.1%, hexavalent chromium max 0.1%, polybrominated biphenyls (PBB) max 0.1% and polybrominated diphenyl ethers (PBDE) max 0.1% (2002/95/EC ROHS Directive) see note B1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (REACH, Annex XVII). Comment: Legal reference has no maximum concentration value.	<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 (Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain polychlorinated biphenyl (PCB) max 0.005% by weight, polychlorinated terphenyl (PCT) max 0.005% by weight (REACH, Annex XVII).	<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 max 0.1% (Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002).	<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) (REACH, Annex XVII). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.7*	Textile and leather parts with direct skin contact do not contain Azo colorants that split aromatic amines max 0.003% by weight (REACH, Annex XVII and Note B1).	<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 (REACH, Annex XVII). Comment: Legal reference has no maximum concentration values.	<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 above 0.5 microgram/cm2/week (REACH, Annex XVII). Comment: Max limit in legal reference when tested according to EN1811:1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact) (REACH Regulation 1907/2006, Annex VII)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P2 Batteries</b>				
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual (2006/66/EC Battery and accumulators Directive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium (2006/66/EC Battery and accumulators Directive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable" (2006/66/EC Battery and accumulators Directive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P3 Safety, EMC connection to the telephone network and labeling</b>				
P3.1*	The product complies with legally required safety standards as specified (2006/95/EC Low Voltage Directive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with legally required standards for electromagnetic compatibility (2004/108/EEC New EMC Directive).	<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 complies with legally required standards for radio and telecommunication devices (1999/5/EC (R&TTE Directive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.4*	The product is labeled to show conformance with applicable legal requirements (2006/66/EC Battery and accumulators Directive, 2006/95/EC Low Voltage Directive, 2004/108/EEC New EMC Directive, 1999/5/EC R&TTE Directive, 2002/96/EC WEEE directive)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 max 0.01% (2002/95/EC ROHS Directive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (REACH, Annex XVII).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS/MSDS) in accordance with these requirements (EC No. 1272/2008 regulation on classification, labeling and packaging CLP, REACH article 31, annex II).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P5 Product packaging</b>				
P5.1*	Packaging and packaging components do not contain lead, mercury, cadmium and hexavalent chromium max 0.01% by weight of this together (2004/12/EC Directive on packaging and packaging waste).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (97/129/EC Commission Decision on Identification System for Packaging Materials).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (2037/2000/EC Regulation on Substances that Deplete the Ozone Layer). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %

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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>P6 Treatment information</b>				
P6.1*	Information for recyclers/treatment facilities is available (2002/96/EC WEEE directive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P7 Design</b>				
<b>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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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: 7 years	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.10	Service is available after end of production for: 7 years	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Material and substance requirements</b>				
P7.11*	Product cover/housing material type: Material type: <b>PC + ABS</b> Material type: <b>PC + PS</b> Material type:			
P7.12	Electrical cable insulation material of power cables are PVC free.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.13	Electrical cable insulation materials of signal cables are PVC free.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.15	All printed circuit boards (without components) >25g are halogen free, as defined in IEC61249-2-21 (see note B2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: <b>FR (40)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> , Other; chemical name: , CAS #:  Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: <b>FR (17)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: Comment: No legal limits exist, this is a market requirement.  1. Chemical name: , CAS #: 2. Chemical name: , CAS #: 3. Chemical name: , CAS #:  Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: <b>FR (40)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.19	Plastic parts >25g are free from flame retardant substances/preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (see note B3)(EC No. 1272/2008 regulation on classification, labeling and packaging CLP)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.20	Of total plastic parts' weight >25g, recycled material content is <b>0%</b> [pls see P14 for additional information]			
P7.21	Of total plastic parts' weight >25g, biobased material content is <b>0%</b> .			
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps:                      and max. mercury content per lamp:                      mg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P8 Batteries</b>				
P8.1*	Battery chemical composition (2006/66/EC Battery and accumulators Directive): <b>Lithium-ion</b>			<input type="checkbox"/>
P8.2	Batteries meet the requirements of the following voluntary program/s: <b>European eco-label (EU Flower criteria (2001/687/EC &amp; 2001/686/EC))</b>			<input checked="" type="checkbox"/>

Note B2: IEC61249-2-21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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Product environmental attributes - Market requirements (continued)					Requirement met			
Item					Yes	No	n.a.	
<b>P9 Energy consumption</b>								
9.1 <a href="#">For the product the following power levels or energy consumptions have been measured:</a>								
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	<input type="checkbox"/>			
Maximum Energy Consumption	W	W	1500 W		<input type="checkbox"/>			
Operating Mode	W	W	833 W		<input type="checkbox"/>			
Ready Mode	W	W	160 W		<input type="checkbox"/>			
Off/Sleep Mode	W	W	4.3 W		<input type="checkbox"/>			
	W	W	W		<input type="checkbox"/>			
	W	W	W		<input type="checkbox"/>			
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W		<input checked="" type="checkbox"/>			
PTEC * Typical Energy Consumption	W	W	W		<input checked="" type="checkbox"/>			
TEC * Typical Energy Consumption	kWh/week	kWh/week	3.790 kWh/week		<input type="checkbox"/>			
ETEC * Annual Energy Consumption	kWh/year	kWh/year	181.92 kWh/year		<input type="checkbox"/>			
Display resolution * : dpi					<input checked="" type="checkbox"/>			
Print Speed * : 50 pages per minute					<input type="checkbox"/>			
Default time to enter energy save mode: 1 minutes					<input type="checkbox"/>			
P9.2*	Information about the energy save function is provided with the product.				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P9.3*	The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version 1.1 Tier: 2 Product category: <b>Printer</b> Others specify:				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<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)		<input type="checkbox"/>	<input type="checkbox"/>	
				Operator position <input checked="" type="checkbox"/>	Bystander positions <input type="checkbox"/>			
				Desktop <input type="checkbox"/>	(only if product is not operator attended)			
				or Desk side <input type="checkbox"/>				
	Idle	* Stand-by	* 4.2	29.7				
	Operation	* Operating Mode	* 7.4	65.9				
	Other mode							
Measured according to: <input checked="" type="checkbox"/> ISO7779 <input 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:				Blue Angel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					Nordic Swan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Chemical emissions from printing products</b>								
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard <input type="checkbox"/> , other specify: <b>RAL-UZ</b>				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P10.4	Typical emission rate (print phase) is (mg/h): Dust 2.9 Ozone <limit of detection> Styrene 0.54 Benzene 0.008 TVOC 9.2				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P10.5	Chemical emission requirements of the following voluntary program/s are met for : Dust <input checked="" type="checkbox"/> Ozone <input checked="" type="checkbox"/> Styrene <input checked="" type="checkbox"/> Benzene <input checked="" type="checkbox"/> TVOC <input checked="" type="checkbox"/>				Blue Angel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					Nordic Swan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Electromagnetic emissions</b>								
P10.6	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"/>	

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Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
<b>P11 Consumable materials for printing products</b>				
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P12 Ergonomics for computing products</b>				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P13 Packaging and documentation</b>				
P13.1*	Product packaging material type(s): <i>Corrugated Paper</i> weight (kg): <i>7.49</i> Product packaging material type(s): <i>Plastic</i> weight (kg): <i>1.65</i> Product packaging material type(s): weight (kg):			
P13.2*	Product plastic packaging is free from PVC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> Paper <input checked="" type="checkbox"/> Other <input type="checkbox"/>			<input type="checkbox"/>
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber. %			<input checked="" type="checkbox"/>
<b>P14 Additional information</b>				
<i>This product is designed to utilise recycled plastic materials wherever available</i>				