



Annex B1 - Product environmental attributes Imaging equipment

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Ricoh	Logo
Company name *	Ricoh Company Ltd	
Contact information *	Ricoh Europe (Netherlands) , John M. Keynesplein 10-B	
e-mail address	1066 EP, Amsterdam, The Netherlands	
	reu.compliance@ricoh-europe.com	
Internet site *	www.ricoh.com	
Additional information		

	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.				
Type of product * Colour MFP					
Commercial name *	M C320FW				
Model number *	M C320FW				
Issue date *	07 October 2024				
Intended market *	☐ Global 区 Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information					

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

About Annex B1

Annex B1 reflects Product environmental attributes relevant for Imaging products. The following items from the ECMA-370 Main body are not shown in the template:

P9.1 PTEC, ETEC and display resolution P12.1-P12.2 Ergonomic requirements.

5

Model number *	M C320FW	Logo	
Issue date *	07 October 2024		

Product	environmental attributes - Legal requirements	Require	emen	t met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do comply with the current European RoHS Directive. (See legal reference and NOTE B1)	\boxtimes		
P1.2*	Products do not contain Asbestos (see legal reference).			
D4 0*	Comment: Legal reference has no maximum concentration value.		_	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).			
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).			
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.			
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): reu.compliance@ricoh-europe.com			
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)			
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)			
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	\square		
P2.4*	Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)		+	
	<u> </u>	_#	井	
P2.5*	When internal batteries of a notebook computer cannot be "accessed and replaced by a nonprofessional user", the related text is present and legible on the external packaging (see legal reference)		Ш	
P3	Conformity verification & Eco design (ErP)			_
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address): https://www.ricoh.com/products/ce_doc2/		Ш	
P3.2*	The product complies with the Eco design Requirements for Energy-Related Products, (see legal reference).			
	Required information is; given in item P15 or added to this document,			
	available at (add URL):			
P4	Consumable materials			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium at a level greater than 0,01% (see legal reference and NOTE B1).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium at a level greater than 0,1% by weight (see legal reference)			
P4.3*	If the ink/toner formulation/preparation is classified as hazardous or contains a substance for which there are Community workplace exposure limits, the product/packaging is adequately labeled according to applicable regulations and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.			
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(sused (see legal reference).	s) 🔀		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.			
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes		

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number *	M C320FW	Logo	
Issue date *	07 October 2024		

	t environmental attributes - Market requirements (See General Note GN below)	Danie	!	.44
	Environmental conscious design *=mandatory to fill in. Additional information regarding each item may be found under P14.		<mark>iremer</mark> No r	
Item P7	Design	res	NO I	ı.a.
	Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable	\square		
P7.2*	Plastic materials in covers/housing have no surface coating.		Ī	一百
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.		Ħ	ī
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.		П	Ī
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	$\overline{\boxtimes}$		
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ħ	$\overline{\Box}$
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\square		
P7.8*	Upgrading can be done using commonly available tools	\boxtimes		
P7.9.	Spare parts are available after end of production for: 7 years			
P7.10	Service is available after end of production for: 7 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: Material type: Material type:			
P7.12	Insulation materials of external electrical cables are PVC free.		\boxtimes	
P7.13	Insulation materials of internal electrical cables are PVC free.		X	
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.			
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen as defined in IEC 61249-2-21. (See NOTE B2)			
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: FR(40)			
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name: , CAS #:			
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:			
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: "			
	3. Chemical name: , CAS #: Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) fir Civers/Housing			
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; and Hazard statements: The source(s) for these classifications is/are found at (add URL(s)): , (See NOTE B5)			

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available;

see http://www.ecma-internationl.org/publications/standards/Ecma-370.htm.

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

Model number *	M C320FW	Logo	
Issue date *	07 October 2024		

Product environmental attributes - Market requirements (continued)						Require	ement	met
Item						Yes	No	n.a.
D= 00t		ance requirements (c		<u>.</u>				
P7.20*	Postconsumer recyc	cled plastic material co	ontent is used in the pro	oduct (See NOTE B6)	:		Ш	Ш
	If YES: at least one	of the two alternatives	below shall be answer	red:				
			he postconsumer recyc	cled plastic material co	ontent (calculated as a			
	percentage of to	total plastic by weight)	is 51.0 %.					
		ecycled material is 66	52.45 g.					
P7.21*	Biobased plastic ma	terial content is used i	in the product (See NO	TE B7):			\boxtimes	
	If YES: at least one	of the two alternatives	below shall be answer	red·				
					ated as a percentage o	f		
	total plastic by or	weight) is %.						
	b) The weight of the biobased plastic material is g.							
P7.22* Light sources are free from mercury, i.e. less than 0,1 mg/lamp.								
If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg P7.23* If product includes an integral display, the total mercury content in the integrated display: 0 mg								
P7.23*	If product includes a	n integral display, the	total mercury content i	n the integrated displa	ay: 0 mg			
P8	Batteries							
P8.1*			n battery (one cell ba	ttery)				
P9	Energy consumption							
P9.1	•		or energy consumption		Τ=			
Energy mo	ode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard modes and test meth		energy	Ш
Operating	mode	W	W	Mono: 431.2 W				
				Colour: 452.0 W				
Ready mo	de	W	W	22.1 W				
Sleep mod	le	kWh/week	kWh/week	0.58 W				П
TEO		1.00% / 1.	1.3.4/1- / 1-	0.00 130//- /	December ENERGY	OTAD V		
TEC value		kWh/week	kWh/week	0.32 kWh/week	Based on ENERGY Test Method. TEC v			Ш
					the program require			
		W	W	W				
		W	W	W				
		W	W	W				
		W	W	W				
		W	W	W				一
External P	ower Supply Efficienc	cy Level (International	Efficiency Marking Pro	tocol) * :				
Print/Scan	Speed * :	32 (Mono) 32 (Colour	r) images per minute					
Default tim	e to enter energy sav	re mode: 1 minutes						一
P9.2*			n is provided with the p	product.	1			一
	in a manual about the shorts, care random representation and produces.							

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic.

NOTE B8 A Guidance document on Energy efficiency is available;

see http://www.ecma-international.org/publications/standards/Ecma-370.htm.

Model number *	M C320FW	Logo	
Issue date *	07 October 2024		

Product	environmental	attributes - Market requirem	ents (cor	ntinued)		Require	ment	met
Item		•		•		Yes	No	n.a.
P10	Emissions							
	Noise emission	 Declared according to ISO 929 	6 (See NO	TE B9)				
P10.1	Mode	Mode description		Statistical upper lin $L_{WA,c}$ (B)	nit A-weighted sound power	level,		
	Idle	* Stand-by		* 2.0				
	Operation	* Operating Mode		* Mono: 6.8, Colou	r: 6.8			T
	Other mode							
		ding to: ISO 7779 ECMA-7	er (d	only if not covered b	by ECMA-74)			
		sions from printing products (Se						
P10.2*		according to ECMA-328 Determinate		emical Emission Ra	ates from Electronic	\boxtimes		
		/IEC 28360) 🔲, other specify: R/	AL-UZ219					
P10.3	Typical emissior	n rate (operation phase) is (mg/h):						
		phic devices: Ozone <0.40 Dust			no), <0.10 (Colour) Benzer	ne		
		0.02 (Colour) TVOC 1.09 (Mono						
	Ink devices:	Ozone Dust Styrene	Benzene	e TVOC				
	NOTE: complian	nce with maximum emission rates	in eco labe	els to be declared in	P14.			
P11		aterials for printing products						
P11.1*	A Safety Data S	heet (SDS) is available for the ink/	toner prep	aration, even if not	legally required (see P4.3).	\boxtimes		
P11.2*	Paper containing EN 12281.	g post-consumer recycled fibers ca	an be used	l, provided that it me	eets the requirements of			
P11.3*	2-sided (duplex)	printing/copying is an integrated p	roduct fun	ction.		\boxtimes		\Box
P11.4*	The product is d	elivered to end-user with default a	uto-duplex	enabled.			П	T
P13	Packaging and	documentation						
P13.1*	Product packagi Product packagi	ng material type(s): Corrugated F ng material type(s): CardBoard ng material type(s): LDPE ng material type(s): PP	Paper weight (ko weight (ko weight (ko	g): 0.101				
P13.2*	Product plastic p	orimary packaging is free from PV0	Э.			\boxtimes		
P13.3*	For product prim	nary corrugated fiberboard package ered fiber content: 70 %	ing, specify	y the contained per	centage of minimum post-	\boxtimes		
P13.4*	Specify media for	or user and product documentation	(tick box):	•				
		Paper 🔀, Other 🔲						
P13.5		nplete this item if paper document of documentation on paper media in pecify:						
	Totally chlorine-t	free						
	Elemental chlori							
	Processed chlor					H		
P14	Voluntary prog	rams:						
P14.1		ets the requirements of the following	ng voluntar	ry program(s):				
	ENERGY STAR Eco-label: <i>BAM</i>	Criteria version: See Criteria version: RA	P9.1	Date:	Product category: MFP			
	Eco-label:	Criteria version:		Date:	Product category:			

NOTE B9 A Guidance document on Acoustic Noise is available;

 $see \ \underline{http://www.ecma-international.org/publications/standards/Ecma-370.htm}.$

NOTE B10 A Guidance document on Chemical Emissions is available;

 $see \ \underline{http://www.ecma-international.org/publications/standards/Ecma-370.htm}.$

Model number *	M C320FW	Logo	
Issue date *	07 October 2024		

Produc	Product environmental attributes - Market requirements (concluded) Requirement		
P15	Additional information (See NOTE B11)		
	Sound pressure level at the operator position [LpA:dB(A)]		
	Stand-by: 3.8 (dB)		
	Operating Mode: Mono: 59.3, Colour: 59.5 (dB)		

NOTE B11 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.

Legal references Europe Annex B1

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1, P4.1, P3.1
Commission Regulation (EC) 1907/2006 (REACH Regulation), annex XVII	P1.2, P1.4, P1.6, P1.7, P4.2
Commission Regulation (EC) 1907/2006 (REACH Regulation), annex VII	P1.10
Commission Regulation (EC) 1907/2006 (REACH Regulation), Article 31, annex II)	P4.3
Commission Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000, (Marketing and use of Ozone layer depleting substances)	P1.3, 5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2006/66/EC (Battery and accumulators Directive), as amended.* * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2.3, P8.1
Directive 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE Directive)	P3.1
Commission Regulation (EC) No 1275/2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment (Standby Regulation)	P3.1, P3.2
Commission Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	
Commission Regulation (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers	
Commission Regulation (EC) 1272/2008 (CLP Regulation)	P4.3, P7.19
	P4.3, P7.19 P5.1

Directive 2012/19/EU (WEEE directive) Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register. Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.