



Product- and Environment Data Sheet

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Date: 18.04.2013

Date of revision:

Model: bizhub C454e

1	<u>Company</u>			
	Manufacturer/Supplier:	Konica Minolta Business Solutions Europe GmbH	Tel.:+49/511/7404-0	
	Address:	D-30855 Langenhagen, Europaallee 17	Fax:+49/511/741050	
	Editor:	Konica Minolta, Sustainability Group Markus Kelch markus.kelch@konicaminolta.eu	Tel.:+49/511/7404-361 Fax:+49/511/7404-172	
2	<u>Tests/Approvals/Declarations</u>			
2.1	CE-conformity:	Declaration of Conformity	For this product an EC Declaration of Conformity according to EN17050-1 is available. It can be obtained form the editor on request.	
2.2	EC-Directives:	2006/95/EC 2004/108/EC 2009/125/EC 2011/65/EC 1995/5/EC	This product is in compliance with the listed EC directives: - Low Voltage Directive / Product Safety - EMV Directive / Electromagnetic Compatibility - ErP Directive / Eco-design - RoHS2 directive - R&TTE Directive / Telecommunication directive	
2.3	Safety tests:	GS-Mark S1 502 27 145	TÜV Rheinland	EN 60950-1
2.4	GOST certification	DIN GOST-certificate B38442	DIN GOST TÜV Berlin-Brandenburg	
2.5	Electromagnetic compatibility (EMC):	EMC-Mark CJ 502 47 230	TÜV Rheinland	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 301 489-1, EN 301 489-3, EN 301 489-17, CISPR 24, IEC 61000-3-2, IEC 61000-3-3
2.6	Energy Star:	EU Energy Star program compliance	EU commission	This product is listed in the EU Energy Star databases
2.7	Ecodesign directive:	2009/125/EC 1275/2008/EC (Lot 6) Voluntary agreement of Konica Minolta for Lot 4	Framework for the setting of ecodesign requirements for energy-related products Requirements for electrical power consumption in standby and off-mode Requirements for ecodesign and energy in operation	
2.8	German environment label: “Blue Angel“	Environment label according to RAL-UZ 171 will be applied	RAL	RAL-UZ 171
2.9	Document authenticity:	PTS-certificate will be applied	Papiertechnische Stiftung (PTS)	Ordinance for Lawyers and Notaries in Germany (DONot), § 29
2.10	Archiving:	ISO 11798 will be applied	SP Technical Research Institute (Sweden)	
2.11	Quality management:	ISO 9001 certification	This product was manufactured under a certified Quality Management System according to ISO 9001.	
2.12	Environmental Management:	ISO 14001 certification	This product was manufactured under a certified Environmental Management Ssystem according to ISO 14001.	



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3 General Information

3.1	Copy rate:	45 copies per minute (Black and white) 45 copies per minute (Full color)	
3.2	Weight:	about 101 Kg	Basic System only (including DF)
3.3	Dimensions:	615 (W) x 685 (D) x 779 (H) mm	Basic System only (H incl. DF: 1167mm)
3.4	Environmental programmes:	This product conforms to the following voluntary environmental program requirements:	Konica Minolta Environmental Policy Konica Minolta Product Environmental Assessment All production sites have ISO 14001 certification. Konica Minolta Environmental Report including environmental accounting report is published annually. http://konicaminolta.net/environment/index.html
3.5	Extension of product lifetime:	The manufacturer offers on a voluntary base:	Spare parts availability: 5 years after end of production Service availability: 5 years after end of production (depends on service level agreement, business to business) Warranty: Depends on service level agreement, business to business
3.6	Materials:	The above-described product contain no*:	Cadmium (< 0.01%) Lead Hexavalent chromium Mercury (except for a fluorescent lamp) PBB and PBDE (Polybrominated biphenyls and their ethers contained in mechanical plastic parts in concentrations exceeding the natural background levels) Ozone depletion substances, according to those categories that are already banned in the Montreal protocol Chloroparaffines with chain length 10-13 atoms, chlorination greater than 50% contained in mechanical plastic parts PCB or PCT Large-size plastic case parts (weighing more than 25g) do not contain the halogenated flame proofing agents. Asbestos * Impurity threshold level: less than 0.1%

4 Emissions / Materials:

4.1	Operating noise:	Sound power, Lwa*	Measured value
			Standby 39.7 dB(A) Copying colour 64.7 dB(A) Copying b/w 64.3 dB(A)
		Sound power declared, Lwad	Standby 42.7 dB(A) Copying colour 67.7 dB(A) Copying b/w 67.4 dB(A)
		Sound pressure, bystander position, Lpa+	Standby 25.9 dB(A) Copying colour 49.4 dB(A) Copying b/w 48.8 dB(A)

Basic unit without accessories

* measured and declared according to ISO7779, RAL-UZ 171

+ workspace related emission value, bystander test position:
h=1.50m; d=1.00m

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4.2	Energy:	Max power consumption # Average power consumption °	<u>Measured value</u>		
			Max.	2000 W	at 230 V
			Printing	840 W	at 230 V
			Standby	108 W 42 W 1.3 W 0.03 W	without energy-save with energy-save mode sleep-mode plug-in mode
			Applied standard test method: RAL-UZ171 # short-term max. value for mains fuse calculation ° calculation basis for power consumption		
		Energy Star TEC	2.94 kWh/week	Typical Energy Consumption value, weekly base, according to the definitions of Energy Star	
		Heat generation	Printing	3,024 kJ/h	
				59.7 BTU/h	BTU 230V, based on the TEC value of this product (24 h x 7 days)
			Standby	389 kJ/h	without energy-save
4.3	Light:	Lightsource	Fluorescent lamp		
4.4	Gas generation:	<u>Substances</u>	<u>Operation</u>	<u>Measured value</u> <u>Emission rate</u> <u>mg/h</u>	<u>Concentration</u> <u>mg/m³</u> <u>Limit value</u> <u>of MAC</u> <u>mg/m³</u>
		Ozone	Standby Copying colour Copying b/w	nm 1.42 mg/h 0.39 mg/h	 0.071 mg/m³ 0.020 mg/m³
		Styrene	Standby Copying colour Copying b/w	nm 0.298 mg/h 0.242 mg/h	 0.015 mg/m³ 0.012 mg/m³
		Benzene	Standby Copying colour Copying b/w	nm 0.048 mg/h 0.037 mg/h	 0.002 mg/m³ 0.002 mg/m³
		TVOC	Standby Copying colour Copying b/w	nd 8.064 mg/h 5.442 mg/h	 0.403 mg/m³ 0.272 mg/m³
4.5	Dust:	Fine dust	Standby Copying colour Copying b/w	nm 2.13 mg/h 1.71 mg/h	 0.107 mg/m³ 0.086 mg/m³
4.6	Test conditions:	Basic unit without accessories	Test conditions according to RAL-UZ 171. Emission rate in mg/h. Calculation to evaluate the ambient air concentration rate in mg/m³: Room size 40 m³, Air exchange rate 0.5/h, Multi copy cycle. Regular maintenance. Measured values were evaluated on basis of one		



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machine. Values may vary within production.
The single measured value is not a confirmed condition.
MAC = Maximum acceptable concentration for workspaces (Germany)
nd = not detectable (below the detection limit)
nm = not measured

5 Consumables

5.1	Toner:	Toner black, cyan, magenta, yellow for bizhub C554e, bizhub C454e, bizhub C364e, bizhub C284e, bizhub C224e	Components: Styrene acrylate resin, ferrite (iron oxide and manganese oxide), carbon black or organic pigments, wax, amorphous silica, titanium dioxide. Flashpoint over 350 °C. When used as intended (toner for office copies) no danger for health and environment. Avoid dusting. Test on mutagenic activity (AMES) showed negative results. Classification class for endangerment of water: WGK = 1 (Germany, slightly endangering water) Waste toner classification no.(EWC): 080318, GC020, green list, not hazardous waste								
5.2	Waste toner box:	1 box	To be replaces after max. 40,000 printouts								
5.3	Photoconductor:	Photoconductors for bizhub C554e, bizhub C454e, bizhub C384e, bizhub C284e, bizhub C224e	Aluminium tube coated with organic material. Coating material does not pollute the environment.								
5.4	Filter:	1 Ozone filter	To be replaced between 150,000 and 300,000 printouts.								
5.5	Batteries:	1 CR-2477/VCK to maintain configuration values	The batteries are in conformity with: 2006/66/EC (battery and accumulators). The documentation includes instructions concerning: - proper removal, - proper disposal. Disposal of batteries: follow the manufacturer's instructions								
5.6	Recycled paper:	Papers according to EN 12281:2002 are suitable for use	Storage in climate-proof packaging recommended								
5.7	Packaging material:	<table><tr><td><u>Material</u></td><td><u>Weight (kg)</u></td></tr><tr><td>Wood</td><td>6.5</td></tr><tr><td>Paper</td><td>7.9</td></tr><tr><td>Foamed plastic PS</td><td>0.8</td></tr></table> <p>Packaging materials are free of PVC.</p>		<u>Material</u>	<u>Weight (kg)</u>	Wood	6.5	Paper	7.9	Foamed plastic PS	0.8
<u>Material</u>	<u>Weight (kg)</u>										
Wood	6.5										
Paper	7.9										
Foamed plastic PS	0.8										
5.8	Disassembly/Recycling:	Mechanical plastic parts weighing more than 25g are marked according to ISO 11469.									
5.9	Take back information:	The supplier offers take back and recycling services for products and consumables in many locations throughout the world. Customers are advised to contact their supplier representatives for additional information.									
5.10	Documentation:	The documentation is available as printout on paper or as electronic file. The documentation does not use chlorine – bleached paper.									
5.11	Other Environmental Features:	Polymerized toner reduces environmental impacts (CO2, NOx and SOx emissions during production of toner) by about 40% compared to conventional toners.									