

Product- and Environment Data Sheet

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Date: 29.05.2012

Date of revision:

Model: ineo+ 224

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	Manufacturer/Supplier:	Develop GmbH	Tel.:+49/511/5334-50

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 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 - R&TTE Directive / Telecommunication directive
2.3	Safety tests:	GS-Mark S1 502 25 672	TÜV Rheinland EN 60950-1
2.4	GOST certification	DIN GOST-certificate B38007	DIN GOST TÜV Berlin-Brandenburg
2.5	Electromagnetic compatibility (EMC):	EMC-Mark CJ 502 25 723	TÜV Rheinland EN 55022, EN 55024, EN 61000-3-2, EN 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 122, will be applied	RAL RAL-UZ 122
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 System according to ISO 14001.

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3 General Information

3.1	Copy rate:	22 copies per minute (Black and white) 22 copies per minute (Full color)	
3.2	Weight:	about 85 Kg	Basic System only
3.3	Dimensions:	615 (W) x 685 (D) x 779 (H) mm	Basic System only
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) 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 Polybrominated biphenyls and their ethers contained in mechanical plastic parts in concentrations exceeding the natural background levels. Large-size plastic case parts (weighing more than 25g) do not contain the halogenated flame proofing agents. * Impurity threshold level: less than 0.1%

4 Emissions / Materials:

		<u>Measured value</u>		
4.1	Operating noise:	Sound power, Lwa*	Standby	39.6 dB(A)
			Copying colour	61.2 dB(A)
			Copying b/w	61.0 dB(A)
		Sound power declared, Lwad	Standby	42.9 dB(A)
			Copying colour	64.2 dB(A)
			Copying b/w	64.0 dB(A)
		Sound pressure, bystander position, Lpa+	Standby	25.5 dB(A)
			Copying colour	45.3 dB(A)
			Copying b/w	45.5 dB(A)

Basic unit without accessories

* measured and declared according to ISO7779, RAL-UZ 122

+ 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.	1580 W	at 230 V	
			Printing	460 W	at 230 V	
			Standby	143 W 31 W 3.7 W 0.03 W	without energy-save with energy-save mode sleep-mode plug-in mode	
Applied standard test method: RAL-UZ122						
# short-term max. value for mains fuse calculation						
° calculation basis for power consumption						
		Energy Star TEC	1.67 kWh/week	Typical Energy Consumption value, weekly base, according to the definitions of Energy Star		
		Heat generation	Printing	1,656 kJ/h		
				33.9 BTU/h	BTU 230V, based on the TEC value of this product (24 h x 7 days)	
			Standby	515 kJ/h	without energy-save	
4.3	Light:	Lightsources	Fluorescent lamp			
4.4	Gas generation:	<u>Substances</u>	<u>Operation</u>	<u>Measured value</u>	<u>Limit value</u>	
				<u>Emission rate</u>	<u>Concentration</u>	
				<u>mg/h</u>	<u>mg/m³</u>	
		Ozone	Standby	nm		
			Copying colour	0.71 mg/h	0.036 mg/m ³	
			Copying b/w	0.26 mg/h	0.013 mg/m ³	
		Styrene	Standby	nm		
			Copying colour	0.344 mg/h	0.017 mg/m ³	
			Copying b/w	0.219 mg/h	0.011 mg/m ³	
		Benzene	Standby	nm		
			Copying colour	0.16 mg/h	0.001 mg/m ³	
			Copying b/w	0.012 mg/h	0.001 mg/m ³	
		TVOC	Standby	nd		
			Copying colour	8.961 mg/h	0.448 mg/m ³	
			Copying b/w	3.596 mg/h	0.18 mg/m ³	
4.5	Dust:	Fine dust	Standby	nm		
			Copying colour	0.98 mg/h	0.049 mg/m ³	
			Copying b/w	1.11 mg/h	0.056 mg/m ³	
4.6	Test conditions:	Basic unit without accessories	Test conditions according to RAL-UZ 122. Emission rate in mg/h. Calculation to evaluate the ambient air concentration rate in mg/m ³ : Room size 40 m ³ , Air exchange rate 0.5/h, Multi copy cycle. Regular maintenance. Measured values were evaluated on basis of one machine. Values may vary within production.			

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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 ineo+ 364, ineo+ 284, ineo+ 224
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 ineo+ 384, ineo+ 284, ineo+ 224
Aluminium tube coated with organic material.
Coating material does not pollute the environment.
- 5.4 Filter: 1 Ozone filter
To be replaced after 225,000 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:

<u>Material</u>	<u>Weight (kg)</u>
Wood	6.5
Paper	6.3
Foamed plastic PS	0.6
Plastic PE	0.3

Packaging materials are free of PVC.

- 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, NO_x and SO_x emissions during production of toner) by about 40% compared to conventional toners.