

## d-Color MF-22

### Umweltdaten:

	gemessene Werte
Ozon Emission	0.2 mg/h <sup>2)</sup>
Staub Emission	1.4 mg/h <sup>2)</sup>
Styrene Emission <ul style="list-style-type: none"> <li>▪ Stand-by</li> <li>▪ Betrieb</li> </ul>	< 0.018 mg/h <sup>2)</sup> < 0.245 mg/h <sup>2)</sup>
Benzol Emission <ul style="list-style-type: none"> <li>▪ Stand-by</li> <li>▪ Betrieb</li> </ul>	< 0.002 mg/h <sup>2)</sup> < 0.036 mg/h <sup>2)</sup>
TVOC Emission <ul style="list-style-type: none"> <li>▪ Stand-by</li> <li>▪ Betrieb</li> </ul>	< 0.34 mg/h <sup>2)</sup> < 4.5 mg/h <sup>2)</sup>
Geräuschpegel <ul style="list-style-type: none"> <li>▪ im Stand-by</li> <li>▪ im Betrieb</li> </ul>	44 dB(A) L <sub>WA</sub> <sup>1)</sup> 65 dB(A) L <sub>WA</sub> <sup>1)</sup>
Festgestellter Geräuschpegel <ul style="list-style-type: none"> <li>▪ im Stand-by</li> <li>▪ im Betrieb</li> </ul>	68 dB(A) L <sub>WA,d</sub> <sup>2)</sup> 47 dB(A) L <sub>WA,d</sub> <sup>2)</sup>
Schalldruckpegel (Arbeitsplatz) <ul style="list-style-type: none"> <li>▪ im Stand-by</li> <li>▪ im Betrieb</li> </ul>	30 dB(A) L <sub>pa</sub> 53 dB(A) L <sub>pa</sub>
Energieverbrauch <ul style="list-style-type: none"> <li>▪ max.</li> <li>▪ Betrieb</li> <li>▪ Stand-by</li> </ul>	1,541 W bei 230 V 720 W bei 230 V 186 W ohne Energiesparf. 120 W mit Energiesparf. < 1 W plug-in mode
Verwendung von Recycling-Papier	Dieses Gerät ist zur Verarbeitung von Recyclingpapier geeignet
Energy Star®	Ja, entspricht den Regeln
Verbrauchsmaterial	
Fototrommel	OPC-Photoconductor (organisch)
Toner	Einkomponenten-Toner
Ames Test*	negativ
Hautverträglichkeit*	negativ
<b>Aufstellhinweise</b> Das Gerät sollte mehr als 10 cm vor und seitlich mindestens 30 cm von den Wänden aufgestellt werden. Für eine gute Belüftung sorgen. Das Gerät nicht in staubigen Räumen aufstellen und vor Ammoniakdämpfen schützen. Luftfeuchtigkeit: 15 – 80 % ; Raumtemperatur: 10 – 32,5 °C Reinigungs-, Wartungs- und Entsorgungstätigkeiten dürfen nur von geschultem Personal durchgeführt werden.	

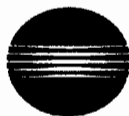
Anmerkung: \*Sicherheitsdatenblatt auf Anfrage

<sup>1)</sup> nach den Kriterien EN 27779 (b/w)

<sup>2)</sup> Kriterien der RAL-UZ 114 werden erfüllt (Limit 71,3 dB(A))

<sup>3)</sup> nach RAL-UZ 62

Hinweis: Technische Änderungen vorbehalten. Gültigkeit hat die aktuelle technische Produktspezifikation.



KONICA MINOLTA

File No.: CEI-2004-T06

**OLIVETTI TECNOST S.p.A.**

Via Jervis 77

10015 Ivrea, ITALY

## **EC DECLARATION OF IDENTITY**

**We, KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. hereby confirm that the Color Copier produced for OLIVETTI TECNOST S.p.A. under the model name d-Color MF22 is identical with original model name C350 (Our EC Declaration of Conformity file No.: CEM-2004-T04) in all respects concerned, and conform with all constructional and performance requirements of following:**

### **EC DIRECTIVES**

**[Safety] 73 / 23 / EEC, 93 / 68 / EEC**

**[EMC] 89 / 336 / EEC, 93 / 68 / EEC**

**Following small changes are introduced on d-Color MF22:**

**Product Type: Color Copier**

**Brand Name: OLIVETTI**

**Model Name: d-Color MF22**

**Options: DF-601, FS-601, PK-4 (PK-501), FS-501, JS-601, AD-501, PC-101, PC-201, PC-401, DK-501, EM-301, HD-501, EK-501, OC-501, MC-501, Fiery X3e 22C-KM, VI-501**

**Place / Date:**

**Toyokawa Japan**

**June 28, 2004**

**Signature: AKIRA ISHIKI, General Manager**

**Safety Engineering Division**

**Quality Assurance Operations**

**KONICA MINOLTA BUSINESS TECHNOLOGIES, INC.**

**2, Higashi-Akatsuchi, Yawata-Cho, Toyokawa, Aichi 442-8585, Japan**

**TEL: +81 533-88-6081, FAX: +81 533-88-5979**

# d-Color MF-25 (identical with Konica Minolta bizhub C250)

## Product- and Environmental Data Sheet

<p><b>Gas generation: Substances</b></p> <p>Ozone</p> <p>Styrene</p> <p>Benzene</p> <p>TVOC</p> <p>Nitrogene dioxide Carbon monoxide</p> <p><b>Dust:</b> Fine dust</p> <p><b>Test conditions:</b> Basic unit without accessories</p>	<table border="1"> <thead> <tr> <th></th> <th><u>Measured value</u></th> <th><u>Limit of RAL-UZ 114</u></th> <th><u>Limit value of MAK</u></th> </tr> </thead> <tbody> <tr> <td>Standby</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Printing</td> <td>0.104 mg/h</td> <td>2 mg/m<sup>3</sup></td> <td>0.2 mg/m<sup>3</sup></td> </tr> <tr> <td>Standby</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Printing</td> <td>not detectable</td> <td>not detectable</td> <td>85 mg/m<sup>3</sup></td> </tr> <tr> <td>Standby</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Printing</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Standby</td> <td>0.032 mg/h</td> <td>0.002 mg/m<sup>3</sup></td> <td></td> </tr> <tr> <td>Printing</td> <td>0.541 mg/h</td> <td>0.028 mg/m<sup>3</sup></td> <td></td> </tr> <tr> <td>Printing</td> <td></td> <td>0.038 mg/m<sup>3</sup></td> <td>9 mg/m<sup>3</sup></td> </tr> <tr> <td>Printing</td> <td></td> <td>1.2 mg/m<sup>3</sup></td> <td>33 mg/m<sup>3</sup></td> </tr> <tr> <td>Standby</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Printing</td> <td>0.16 mg/h</td> <td>0.008 mg/m<sup>3</sup></td> <td>6 mg/m<sup>3</sup></td> </tr> </tbody> </table> <p>Testconditions according to RAL-UZ 114, Emissionrate in mg/h. Calculation to evaluate the ambient air concentration rate: Room size 40 m<sup>3</sup>, air exchange rate 0.5 / h , Multicopy cycle. Regular maintainance Measured values were evaluated on basis of one machine. Values many vary within production. The single measured value is not a confirmed condition.</p>		<u>Measured value</u>	<u>Limit of RAL-UZ 114</u>	<u>Limit value of MAK</u>	Standby	not detectable	not detectable		Printing	0.104 mg/h	2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	Standby	not detectable	not detectable		Printing	not detectable	not detectable	85 mg/m <sup>3</sup>	Standby	not detectable	not detectable		Printing	not detectable	not detectable		Standby	0.032 mg/h	0.002 mg/m <sup>3</sup>		Printing	0.541 mg/h	0.028 mg/m <sup>3</sup>		Printing		0.038 mg/m <sup>3</sup>	9 mg/m <sup>3</sup>	Printing		1.2 mg/m <sup>3</sup>	33 mg/m <sup>3</sup>	Standby	not detectable	not detectable		Printing	0.16 mg/h	0.008 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>
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<p>Photoconductor</p> <p>Toner *</p>	<p>Photoconductor K/M/C/Y for d-Color MF-25 Aluminiumtube coated with organic material. Coating material does not pollute the environment.</p> <p>Components: Polyester resin, carbon black, wax, titanium compound, amorphous silica. Flashpoint over 350 °C. When used destinationwise 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</p>																																																				
<p>Filter 1 Ozonfilter / 1 Deodorant Filter *<sup>1</sup> / 1 Dust Filter *<sup>2</sup></p>	<p>To be replaced after 120.000 / 20.000 / 30.000 printouts *<sup>1</sup> Exchange of the Deodorant Filter with every new toner cartridge. (is enclosed) *<sup>2</sup> Exchange of the Dust Filter with every new toner cartridge (is enclosed)</p>																																																				

Comment: \*Material Safty Data Sheet available on request

Hinweis: Technische Änderungen vorbehalten. Gültigkeit hat die aktuelle technische Produktspezifikation.

**DICHIARAZIONE CE DI CONFORMITA' del COSTRUTTORE secondo EN45014**  
**MANUFACTURER'S CE DECLARATION of CONFORMITY according to EN 45014**

**OLIVETTI S.p.A.** Via Jervis, 77 - 10015 IVREA (TO) - ITALY

Dichiara sotto la sua responsabilita' che il prodotto:  
*Declares under its sole responsibility that the product:*

Categoria generale:	<b>Apparecchiature per la Tecnologia dell' Informazione</b>
<i>Equipment category:</i>	<b>Information Technology Equipment</b>
Tipo di apparecchiatura:	<b>Copiatrice Laser digitale con accessori</b>
<i>Product type:</i>	<b>Digital Laser Copier with accessories</b>
Nome di modello:	<b>d-Color MF25 with/con: DF-601; AD-503; FS-603, PK4/PK-501;</b>
<i>Model designation:</i>	<b>JS-601; PC-103; PC-203; PC-403; DK-502; EK-702; SA-501; FS-501; MK-706; MK-704; ML-501; SC-503; FK-502</b>

**è CONFORME alla Direttiva 1999/5/CE del 9 marzo 1999**  
*is in compliance with directive 99/5/EC dated 9<sup>th</sup> march 1999*

e soddisfa i requisiti essenziali di **Compatibilità Elettromagnetica e di Sicurezza** previsti dalle Direttive:  
*and fulfills the essential requirements of Electromagnetic Compatibility and of Electrical Safety as prescribed by the Directives:*

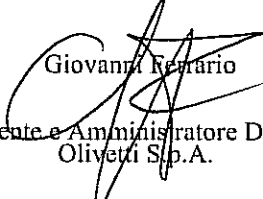
**89/336/CEE del 3 maggio 1989** con successive modificazioni (Direttiva 92/31/CEE del 28 aprile 1992 e Direttiva 93/68/CEE del 22 luglio 1993);  
*89/336/EEC dated 3rd May 1989 with subsequent amendments (Directive 92/31/EEC dated 28th April 1992 and Directive 93/68/EEC dated 22nd July 1993);*  
**73/23/CEE del 19 febbraio 1973** con successive modificazioni (Direttiva 93/68/CEE del 22 luglio 1993),  
*73/23/EEC dated 19th February 1973 with subsequent amendments (Directive 93/68/EEC dated 22nd July 1993),*

in quanto progettato e costruito in conformità alle seguenti Norme Armonizzate:  
*since designed and manufactured in compliance with the following European Harmonized Standards:*

**EN 55022** (Limits and methods of measurements of radio interference characteristics of Information Technology Equipment) / Class B;  
**EN 61000-3-2** (Electromagnetic Compatibility (EMC) - Part 2 : Limits - Section 2 : Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) / Class A  
**EN 61000-3-3** (Electromagnetic Compatibility (EMC) - Part 3 : Limits - Section 3 : Limitation of voltage fluctuations and flicker in low voltage supply systems for equipment with rated current up to and including 16A);  
**EN 55024** (Electromagnetic Compatibility – Information technology equipment – Immunity characteristics – Limits and methods of measurement);  
**EN 60950-1** (Safety of Information Technology Equipment, including electrical business equipment).  
**EN 60825-1** (Radiation Safety of laser products, equipment classification, requirements ad user's guide).

La conformità ai suddetti requisiti essenziali viene attestata mediante l'apposizione della **Marcatura CE** sul prodotto.  
*Compliance with the above mentioned essential requirements is shown by affixing the CE marking on the product.*

Ivrea, 20 Ottobre 2005  
*Ivrea, 20<sup>th</sup> October 2005*

  
 Giovanni Ferrario  
 Presidente e Amministratore Delegato  
 Olivetti S.p.A.

Note: 1) La Marcatura CE è stata apposta nel 2005  
*Notes: 1) CE Marking has been affixed in 2005*  
 2) Il Sistema della Qualità è conforme alle norme serie UNI EN ISO 9000.  
 2) *The Quality System is in compliance with the UNI EN ISO 9000 series of Standards*

# d-Color MF-25 plus (identical with Konica Minolta bizhub C252)

## Product- and Environmental Data Sheet

<p><b>Gas generation: Substances</b></p> <p>Ozone</p> <p>Styrene</p> <p>Benzene</p> <p>TVOC</p> <p>Nitrogene dioxide Carbon monoxide</p> <p><b>Dust:</b> Fine dust</p> <p><b>Test conditions:</b> Basic unit without accessories</p>	<table border="1"> <thead> <tr> <th></th> <th><u>Measured value</u></th> <th><u>Limit of RAL-UZ 114</u></th> <th><u>Limit value of MAK</u></th> </tr> </thead> <tbody> <tr> <td>Standby</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Printing</td> <td>0.104 mg/h</td> <td>2 mg/m<sup>3</sup></td> <td>0.2 mg/m<sup>3</sup></td> </tr> <tr> <td>Standby</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Printing</td> <td>not detectable</td> <td>not detectable</td> <td>85 mg/m<sup>3</sup></td> </tr> <tr> <td>Standby</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Printing</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Standby</td> <td>0.032 mg/h</td> <td>0.002 mg/m<sup>3</sup></td> <td></td> </tr> <tr> <td>Printing</td> <td>0.541 mg/h</td> <td>0.028 mg/m<sup>3</sup></td> <td></td> </tr> <tr> <td>Printing</td> <td></td> <td>0.038 mg/m<sup>3</sup></td> <td>9 mg/m<sup>3</sup></td> </tr> <tr> <td>Printing</td> <td></td> <td>1.2 mg/m<sup>3</sup></td> <td>33 mg/m<sup>3</sup></td> </tr> <tr> <td>Standby</td> <td>not detectable</td> <td>not detectable</td> <td></td> </tr> <tr> <td>Printing</td> <td>0.16 mg/h</td> <td>0.008 mg/m<sup>3</sup></td> <td>6 mg/m<sup>3</sup></td> </tr> </tbody> </table> <p>Testconditions according to RAL-UZ 114, Emissionrate in mg/h. Calculation to evaluate the ambient air concentration rate: Room size 40 m<sup>3</sup>, air exchange rate 0.5 / h , Multicopy cycle. Regular maintainance Measured values were evaluated on basis of one machine. Values many vary within production. The single measured value is not a confirmed condition.</p>		<u>Measured value</u>	<u>Limit of RAL-UZ 114</u>	<u>Limit value of MAK</u>	Standby	not detectable	not detectable		Printing	0.104 mg/h	2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	Standby	not detectable	not detectable		Printing	not detectable	not detectable	85 mg/m <sup>3</sup>	Standby	not detectable	not detectable		Printing	not detectable	not detectable		Standby	0.032 mg/h	0.002 mg/m <sup>3</sup>		Printing	0.541 mg/h	0.028 mg/m <sup>3</sup>		Printing		0.038 mg/m <sup>3</sup>	9 mg/m <sup>3</sup>	Printing		1.2 mg/m <sup>3</sup>	33 mg/m <sup>3</sup>	Standby	not detectable	not detectable		Printing	0.16 mg/h	0.008 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>
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<p><b>Energy</b></p> <ul style="list-style-type: none"> <li>Max. power consumption #</li> <li>Average power consumption °</li> <li>Heat generation</li> </ul>	<table border="1"> <thead> <tr> <th></th> <th><u>Measured Value</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>Max.</td> <td>1,183 W</td> <td>at 230 V</td> </tr> <tr> <td>Printing</td> <td>610 W</td> <td>at 230 V</td> </tr> <tr> <td>Standby</td> <td>162 W</td> <td>without energy-save</td> </tr> <tr> <td></td> <td>110 W</td> <td>with energy-save</td> </tr> <tr> <td></td> <td>19,5 W</td> <td>auto-off</td> </tr> <tr> <td></td> <td>&lt; 1 W</td> <td>plug-in mode</td> </tr> </tbody> </table> <p># short-term max. value for mains fuse calculation ° calculation basis for power consumption</p> <table border="1"> <tbody> <tr> <td>Printing</td> <td>2,196 kJ/h</td> </tr> <tr> <td>Standby</td> <td>583 kJ/h without energy-save 396 kJ/h with energy-save</td> </tr> </tbody> </table>		<u>Measured Value</u>		Max.	1,183 W	at 230 V	Printing	610 W	at 230 V	Standby	162 W	without energy-save		110 W	with energy-save		19,5 W	auto-off		< 1 W	plug-in mode	Printing	2,196 kJ/h	Standby	583 kJ/h without energy-save 396 kJ/h with energy-save																											
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<p>Photoconductor</p> <p>Toner *</p>	<p>Photoconductor K/M/C/Y for d-Color MF-25 Aluminiumtube coated with organic material. Coating material does not pollute the environment.</p> <p>Components: Polyester resin, carbon black, wax, titanium compound, amorphous silica. Flashpoint over 350 °C. When used destinationwise 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</p>																																																				
<p>Filter 1 Ozonfilter / 1 Deodorant Filter *<sup>1</sup> / 1 Dust Filter *<sup>2</sup></p>	<p>To be replaced after 120.000 / 20.000 / 30.000 printouts *<sup>1</sup> Exchange of the Deodorant Filter with every new toner cartridge. (is enclosed) *<sup>2</sup> Exchange of the Dust Filter with every new toner cartridge (is enclosed)</p>																																																				

Comment: \*Material Safty Data Sheet available on request

Hinweis: Technische Änderungen vorbehalten. Gültigkeit hat die aktuelle technische Produktspezifikation.

# d-Color MF30 (identical with Konica Minolta bizhub C300)

## Product- and Environmental Data Sheet

<b>Gas generation: Substances</b>		<u>Measured value</u>	<u>mg/m<sup>3</sup></u>	<u>Limit value of AGW</u>
Ozone	Standby Printing	not detectable 0.95 mg/h	not detectable 0,048 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Styrene	Standby Printing	not detectable < 0,045 mg/m <sup>3</sup>	not detectable < 0,002 mg/m <sup>3</sup>	85 mg/m <sup>3</sup>
Benzene	Standby Printing	not detectable < 0,05 mg/m <sup>3</sup>	not detectable < 0,003 mg/m <sup>3</sup>	
TVOC	Standby Printing	0.725 mg/h 4,09 mg/h	0.036 mg/m <sup>3</sup> 0.204 mg/m <sup>3</sup>	
Nitrogene dioxide Carbon monoxide	Printing Printing		0.038 mg/m <sup>3</sup> 1.2 mg/m <sup>3</sup>	9 mg/m <sup>3</sup> 33 mg/m <sup>3</sup>
<b>Dust:</b> Fine dust	Standby Printing	not detectable < 0.15 mg/h	not detectable 0.008 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>
<b>Test conditions:</b> Basic unit without accessories		Testconditions according to RAL-UZ 114, Emissionrate in mg/h. Calculation to evaluate the ambient air concentration rate: Room size 40 m <sup>3</sup> , air exchange rate 0.5 / h , Multicopy cycle. Regular maintenance Measured values were evaluated on basis of one machine. Values many vary within production. The single measured value is not a confirmed condition.		
<b>Emission</b>		<u>Measured value</u>		
<ul style="list-style-type: none"> <li>Operating noise: Sound power, Lwa*</li> <li>Sound power declared, Lwad**</li> <li>Sound pressure, workplace position, Lpa+</li> </ul>	Standby Printing	54 dB(A) 65 dB(A)		
	Standby Printing	57 dB(A) 68 dB(A)		
	Standby Printing	40 dB(A) 51 dB(A)		
		* measured according to EN 27779 ** special test requirement, defined in RAL-UZ 114, valid for Germany only + workspace related emission value, test position: h=1.50m; d=0.25m		
<b>Energy</b>		<u>Measured Value</u>		
<ul style="list-style-type: none"> <li>Max. power consumption #</li> <li>Average power consumption °</li> </ul>	Max. Printing Standby	1.400 W 800 W 156 W	at 230 V at 230 V with energy-save 1	
		97 W 21 W < 1 W	with energy-save 2 auto-off plug-in mode	
<ul style="list-style-type: none"> <li>Heat generation</li> </ul>	Printing Standby	2.880 kJ/h 552 kJ/h		
		349 kJ/h	with energy-save 2	
Recycled paper: Papers according to EN 12281:2002 are suitable for use		Storage in climatized packaging recommended.		
<b>Consumables</b>				
Photoconductor		Photoconductor K/M/C/Y for d-Color MF-30/35 Aluminiumtube coated with organic material. Coating material does not pollute the environment.		
Toner *		Components: Polyester resin, carbon black, wax, titanium compound, amorphous silica. Flashpoint over 350 °C. When used destinationwise 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.EAK 080318; nach EWG 259/93; GC200, green list, not hazardous waste		
Filter	1 Dust filter (fan section) 1 Dust filter (vertical transportation section) 1 Ozone Filter	To be replaced after 25.000 printouts To be replaced after 120.000 printouts To be replaced after 120.000 printouts		

Comment: \*Material Safty Data Sheet and more Informations available on request

Hinweis: Technische Änderungen vorbehalten. Gültigkeit hat die aktuelle technische Produktspezifikation.

# d-Color MF35 (identical with Konica Minolta bizhub C352)

## Product- and Environmental Data Sheet

<b>Gas generation: Substances</b>		<u>Measured value</u>	<u>Concentration mg/m<sup>3</sup></u>	<u>Limit value of MAC</u>
Ozone	Standby Printing	not detectable 1,4 mg/h	not detectable 0,07 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Styrene	Standby Printing	not detectable < 0,045 mg/m <sup>3</sup>	not detectable < 0,002 mg/m <sup>3</sup>	85 mg/m <sup>3</sup>
Benzene	Standby Printing	not detectable < 0,05 mg/m <sup>3</sup>	not detectable < 0,003 mg/m <sup>3</sup>	
TVOC	Standby Printing	0.750 mg/h 5,26 mg/h	0.038 mg/m <sup>3</sup> 0.263 mg/m <sup>3</sup>	
Nitrogene dioxide Carbon monoxide	Printing Printing		0.038 mg/m <sup>3</sup> 1.2 mg/m <sup>3</sup>	9 mg/m <sup>3</sup> 33 mg/m <sup>3</sup>
<b>Dust:</b> Fine dust	Standby Printing	not detectable < 0.15 mg/h	not detectable 0.008 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>
<b>Test conditions:</b> Basic unit without accessories		Testconditions according to RAL-UZ 114, Emissionrate in mg/h. Calculation to evaluate the ambient air concentration rate: Room size 40 m <sup>3</sup> , air exchange rate 0.5 / h , Multicopy cycle. Regular maintainance Measured values were evaluated on basis of one machine. Values many vary within production. The single measured value is not a confirmed condition. MAC = Maximum acceptable concentration for workspaces (Germany)		
<b>Emission</b>		<u>Measured value</u>		
▪ Operating noise: Sound power, Lwa*	Standby Printing	53 dB(A) 64 dB(A)		
Sound power declared, Lwad**	Standby Printing	56 dB(A) 67 dB(A)		
Sound pressure, workplace position, Lpa+	Standby Printing	38 dB(A) 50 dB(A)		
		* measured according to EN 27779 ** special test requirement, defined in RAL-UZ 114, valid for Germany only + workspace related emission value, test position: h=1.50m; d=0.25m		
<b>Energy</b>		<u>Measured Value</u>		
▪ Max. power consumption #	Max.	1.499 W at 230 V		
▪ Average power consumption °	Printing	980 W at 230 V		
	Standby	156 W with energy-save 1		
		97 W with energy-save 2		
		21 W auto-off		
		< 1 W plug-in mode		
		# short-term max. value for mains fuse calculation ° calculation basis for power consumption		
▪ Heat generation	Printing Standby	3.528 kJ/h 552 kJ/h with energy-save 1 349 kJ/h with energy-save 2		
Recycled paper:	Papers according to EN 12281:2002 are suitable for use	Storage in climatized packaging recommended.		
<b>Consumables</b>				
Photoconductor	Photoconductor K/M/C/Y for d-Color MF-30/35 Aluminiumtube coated with organic material. Coating material does not pollute the environment.			
Toner *	Components: Polyester resin, carbon black, wax, titanium compound, amorphous silica. Flashpoint over 350 °C. When used destinationwise 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.EAK 080318; nach EWG 259/93; GC020, green list, not hazardous waste			
Filter	1 Dust filter (fan section) 1 Dust filter (vertical transportation section) 1 Ozone Filter	To be replaced after 25.000 printouts To be replaced after 120.000 printouts To be replaced after 120.000 printouts		

Comment: \*Material Safty Data Sheet and other Informations available on request

Hinweis: Technische Änderungen vorbehalten. Gültigkeit hat die aktuelle technische Produktspezifikation.

# d-Color MF-45 (identical with Konica Minolta bizhub C450)

## Product- and Environmental Data Sheet

<b>Gas generation: Substances</b>		<u>Measured value</u>		<u>Limit value of MAK</u>	
Ozone		Standby Printing	not detectable < 0.1mg/h	not detectable < 0,01 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Styrene		Standby Printing	0.013 mg/h 0.27 mg/h	0.001 mg/m <sup>3</sup> 0.03 mg/m <sup>3</sup>	85 mg/m <sup>3</sup>
Benzene		Standby Printing	< 0.006 mg/h < 0.05 mg/h	< 0.001 mg/m <sup>3</sup> < 0.01 mg/m <sup>3</sup>	
TVOC		Standby Printing	0.5 mg/h 10 mg/h	0.06 mg/m <sup>3</sup> 1.11 mg/m <sup>3</sup>	
Nitrogene dioxide Carbon monoxide		Printing Printing		0.038 mg/m <sup>3</sup> 1.2 mg/m <sup>3</sup>	9 mg/m <sup>3</sup> 33 mg/m <sup>3</sup>
<b>Dust:</b> Fine dust		Standby Printing	not detectable 1.2 mg/h	not detectable 0.13 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>
<b>Test conditions:</b> Basic unit without accessories		Testconditions according to RAL-UZ 114, Emissionrate in mg/h. Concentration values calculated on basis of a room size 30m <sup>3</sup> an an air exchangerate of 0.3. Multicopy cycle. Regular maintainance Measured values were evaluated on basis of one machine. Values many vary within production. The single measured value is not a confirmed condition.			
<b>Emission</b>		<u>Measured value</u>			
▪ Operating noise: Sound power, Lwa*		Standby Printing	47 dB(A) 68 dB(A)		
Sound power declared, Lwad**		Standby Printing	50 dB(A) 71 dB(A)		
Sound pressure, workplace position, Lpa+		Standby Printing	31 dB(A) 53 dB(A)		
		* measured according to EN 27779 ** special test requirement, defined in RAL-UZ 114, valid for Germany only + workspace related emission value, test position: h=1.50m; d=0.25m nm not measured			
<b>Energy</b>		<u>Measured Value</u>			
▪ Max. power consumption #		Max.	1,139 W	at 230 V	
▪ Average power consumption °		Printing	920 W	at 230 V	
		Standby	220 W	without energy-save	
			127 W	with energy-save	
			21 W	Auto-Shut Off	
			< 1 W	plug-in mode	
		# short-term max. value for mains fuse calculation ° calculation basis for power consumption			
		Printing	3,312 kJ/h		
		Standby	792 kJ/h without energy-save 457 kJ/h with energy-save		
Recycled paper:	Papers according to EN 12281:2002 are suitable for use	Storage in climatized packaging recommended.			
<b>Consumables</b>					
Photoconductor		Photoconductor K/M/C/Y for d-Color MF-45 Aluminiumtube coated with organic material (OPC). Coating material does not pollute the environment and can be disosed off with household waste.			
Toner*:	Toner black for d-Color MF45 Toner cyan for d-Color MF45 Toner magenta for d-Color MF45 Toner yellow for d-Color MF45	Components: Styrene acrylatic resin, carbon black, wax, titanium compound, armorphus silica. Flashpoint over 360°C When used destinationwise (copier for office use) 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. for toner : 080318, GC020, green list			
Filter	1 Ozonfilter / 1 Deodorant Filter *1 / 1 Dust Filter *2	To be replaced after 150,000 / 100,000 / 11,500 prints			

Comment: \*Material Safty Data Sheet available on request

Hinweis: Technische Änderungen vorbehalten. Gültigkeit hat die aktuelle technische Produktspezifikation.