

ENVIRONMENTAL DATASHEET

SYSTEM INFORMATION

System: **e-STUDIO478s**

Printing/Copying Speed: 47 ppm monochrome

Supplies:
Toner T-478SE-R, T-478PS-NR



- Duplex unit as standard
- Capable to operate with recycling paper (EN12281)
- Internal toner recycling
- Energy Saver modes available
- Safety Data Sheet (SDS) for supplies available

NOISE EMISSION

Measured according to Blue Angel (DE-UZ 205) ISO 7779 / ISO 9296

	A-weighted sound power L_{WA}	Declared A-weighted sound power L_{WAd}	A-weighted sound pressure $L_{pA, 1m}$	A-weighted sound pressure L_{pA} , at bystander position
Ready mode	28,2 dB(A)	30,8 dB(A)	14,5 dB(A)	14,3 dB(A)
Operation mode (mono)	66,9 dB(A)	69,5 dB(A)	55,8 dB(A)	55,3 dB(A)

The device meets the noise emission requirements of the following voluntary programmes:

- Blue Angel (DE-UZ 205)
- Nordic Swan 6.5

CHEMICAL EMISSION

Measured according to Blue Angel (DE-UZ 205)

	Print phase (mono) ¹⁾	Pre-operating phase (mono) ¹⁾
Ozone	<0,26 (LOD) mg/h	<0,143 mg/h
Styrene	0,110 mg/h	
Dust	1,18 (LOD) mg/h	
TVOC	5,805 mg/h	
Benzene	<0,012 (LOD) mg/h	
Unidentified single VOC	pass	
Particle emission rate	0,19 x 10 ¹¹ /10 min	

¹⁾ LOD = Limit of Detection

The device meets the chemical emission requirements of the following voluntary programmes:

- Blue Angel (DE-UZ 205)
- Nordic Swan 6.5

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POWER LEVEL at 230 V AC

Measured according to ENERGY STAR® for Imaging Equipment Blue Angel (DE-UZ 205)

Ready	15,68 W	Plug-in Off	0,1 W
Energy Save	2,28 W	Power max.	1190 W
Hibernate	0,1 W	cont. printing	590 W

Typical Energy Consumption (TEC): 1,819 kWh/week based on ENERGY STAR® for IE, Version 2.0
0,71 kWh/week based on ENERGY STAR® for IE, Version 3.0

The device meets the power consumption requirements of the following voluntary programmes:

- ENERGY STAR for Imaging Equipment, v. 2.0 Blue Angel (DE-UZ 205) Nordic Swan 6.5
 ENERGY STAR for Imaging Equipment, v. 3.0

PACKAGING DATA

Cardboard / Paper	3.290 g	EPS/EPE/EPP	665 g
Plastics	172 g		

CHEMICALS / MATERIAL

1st battery: LiMnO₂ 0,23 g

Cover/housing

Material: ABS, ABS+PC
 Flame Retardants Free from halogens and chlorinated paraffins
 Marking: Plastics marked according to ISO 11469

Recycled plastic usage-ratio (in plastic-parts >25g):

29,7 weight-% per total plastics, respectively 2,99 kg

- Device is compliant to the RoHS-Directive Device and material comply to REACH-Regulation

TAKE-BACK PROGRAMMES

- For devices according to WEEE-Directive
 For batteries according to Battery Directive
 For packaging material according to Packaging Directive

OTHERS

Manufacturing site certified according to:

- ISO 14001 (Environmental Management System) ISO 9001 (Quality Management System)
 ISO 18001 (Occupational Health and Safety Management System)