



Monochrome MFD

ECOSYS MA4000wfx(US)

KYOCERA Document Solutions Inc.

Functional unit

Per unit of product

System boundary

final products intermediate products

Raw material acquisition-Production-Distribution-
Use & maintenance-End-of-Life

Main specifications of the product

Model name : Monochrome MFD

ECOSYS MA4000wfx(US)

Making Technology : Electrophotographic Printer (EP)
Printng Speed:

Monochrome 40 pages per minute in A4

Prting paper : Maximum A4R

Duplex function: Standard

ADF: Standard

Copy / Print / Scan / FAX

Company Information

KYOCERA Document Solutions Inc.

Quality Assurance Division Reliability Assurance Section 21

TEL : 06-6764-3764

<https://www.kyoceradocumentsolutions.co.jp>

Registration#	JR-AI-24492E-A
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	2 December 2025
Verification date	19 November 2025
Verification method	System certification
Verification#	JV-AI-24492E-A
Expiration date	11/18/2030

PCR review was conducted by:

Approval date	1 September 2023
PCR review	Masayuki Kanzaki
panel chair	Sustainable Management Promotion Organization

Third party verifier*

Hiroyuki Uchida

Independent verification of data & declaration in accordance
with ISO14025

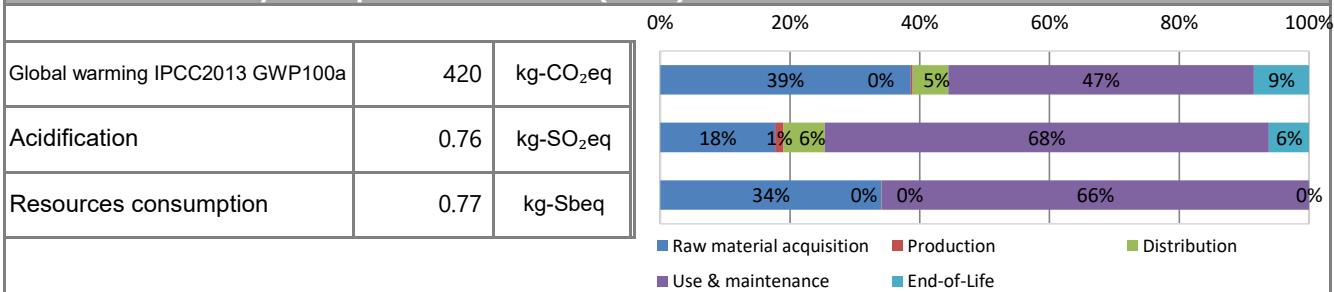
internal

external

*Auditor's name is stated if system certification has been performed.

Registration number : JR-AI-24492E-A

1. Results of life cycle impact assessment (LCIA)



Parameter	stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO ₂ eq	4.2E+02	1.6E+02	1.3E+00	2.3E+01	2.0E+02	3.5E+01
Ozone layer destruction		kg-CFC-11eq	3.1E-05	1.4E-05	6.6E-10	2.8E-10	1.5E-05	8.1E-07
Acidification		kg-SO ₂ eq	7.6E-01	1.4E-01	9.8E-03	4.8E-02	5.2E-01	4.7E-02
Photochemical ozone		kg-C ₂ H ₄ eq	6.5E-03	3.7E-03	1.6E-06	1.2E-04	2.5E-03	1.1E-04
Eutrophication		kg-PO ₄ ³⁻ eq	1.9E-02	7.8E-03	5.4E-09	2.3E-10	1.1E-02	2.1E-05
Resources consumption		kg-Sbeq	7.7E-01	2.6E-01	3.2E-06	9.6E-05	5.1E-01	5.2E-05

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	2.4E+01	kg
Non-renewable energy resources	6.7E+03	MJ
Renewable material resources	1.1E+02	kg
Renewable primary energy	4.7E+02	MJ

3. Material composition

Material	Unit	
Steel	6.8E+00	kg
SUS	3.2E-01	kg
Cu	5.7E-01	kg
Al	1.0E-01	kg
Other metal	3.4E-02	kg
Thermoplastics resin	9.7E+00	kg
Thermosetting resin	5.9E-02	kg
Rubber	4.1E-02	kg
Paper	5.1E+00	kg
Assembled circuit board	8.6E-01	kg
Medium-sized motor	6.1E-01	kg
Glass	1.4E+00	kg
Wood	1.9E-03	kg

5. Additional explanation

- Product destination: North America
- Calculation method of use stage (scenario)
 - ①Expected usage period: five years
 - ②Estimated number of sheets used: Monoclome 240,000
 - ③The impact of printing paper is not included
- Products selected in the scenario used for inventory calculation : Copier, Printer and Multifunction device (EP)
- Conformed to the International ENERGY STAR® Ver3.2 Program
- Consumables will be shipped directly from the factory to the country of sale separately from the product body and all of them are accounted for in the use and maintenance phase.



6-1. Supplementary environmental information

- Conformed to the International ENERGY STAR® Program
- Manufactured at ISO14001 certified factories.
- Halogenated flame retardants are not used in Plastic housing and outer package.

7. Assumptions of secondary data used

IDEA v3.1.0 and Japan EPD Program by SuMPO Registry data v1.16

8. Remarks

Re-verification/Updating by using MiLCA for EPD version (-A is added to registration number)

- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.
(Reference URL : <https://ecoleaf-label.jp/regulation/>)

Registration number : JR-AI-24492E-A