



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 certificaion
Verification#	JV-AI-24492E-A
Expiration date	11/18/2030
PCR review was conducted by:	
Approval date	1 September 2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

Hiroyuki Uchida

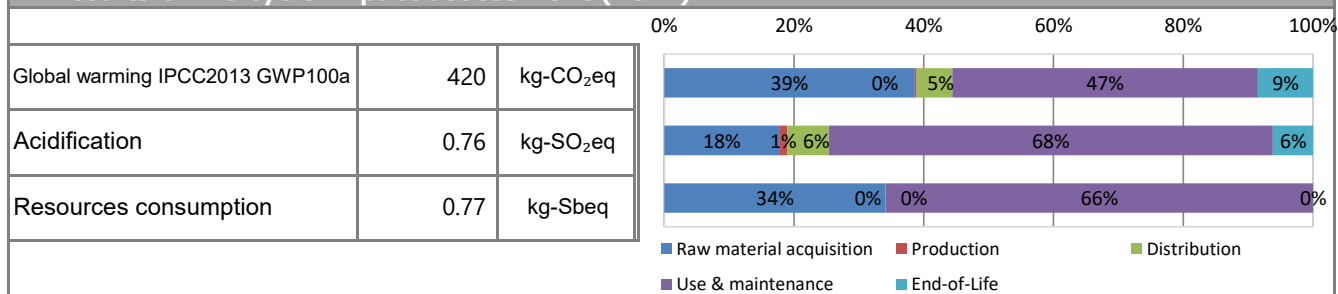
Independent verification of data & declaration in accordance
with ISO14025

☐ 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	Value	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	Value	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)
 - Expected usage period: five years
 - Estimated number of sheets used: Monocrome 240,000
 - The 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.



SuMPO EPD
Type III Environmental Declaration (EPD)

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
<https://ecoleaf-label.jp/>

Registration number : JR-AI-24492E-A

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