



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23097E-A

Japan EPD Program by SuMPO

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



# Monochrome MFD ECOSYS MA4500ifx

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 MA4500ifx  
Making Technology :Electrophotographic Printer (EP)  
Printng Speed: Monochrome 45 Pages per minute in A4  
Priting paper :Maximum Folio  
Copy / Print / Scan/ FAX  
Duplex function: Standard

## Company Information

KYOCERA Document Solutions Inc.  
Quality Assurance Division Reliability Assurance Section 11  
TEL : 06-6764-3764  
<http://www.kyoceradocumentsolutions.co.jp/>

Registration#	JR-AI-23097E-A
PCR number	PA-590000-AI-06
PCR name	Imaging input and/or output equipment
Publication date	4/20/2023
Verification date	4/7/2023
Verification method	System certificaion
Verification#	JV-AI-23097E
Expiration date	4/6/2028
PCR review was conducted by:	
Approval date	3/29/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

## Third party verifier\*

Wataru Kawamura

Independent verification of data & declaration in accordance with ISO14025

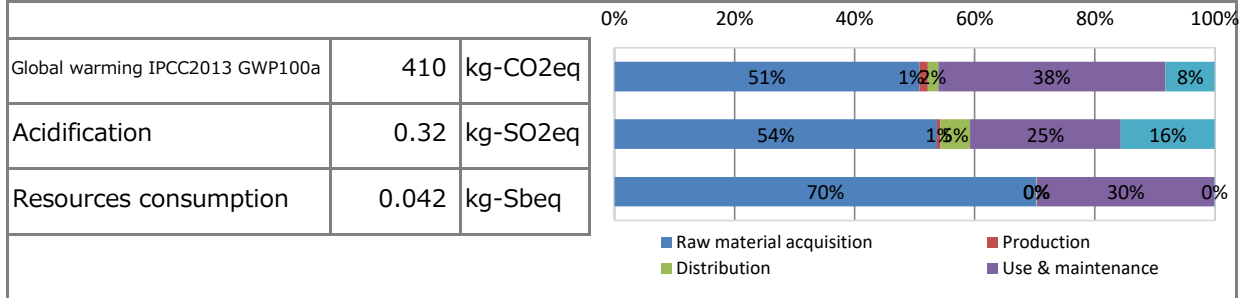
internal     external

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

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**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 <sub>2</sub> eq	4.1E+02	2.1E+02	5.7E+00	7.3E+00	1.6E+02	3.4E+01
Acidification		kg-SO <sub>2</sub> eq	3.2E-01	1.7E-01	1.8E-03	1.6E-02	8.0E-02	5.0E-02
Resources consumption		kg-Sbeq	4.2E-02	2.9E-02	2.4E-05	3.1E-05	1.2E-02	4.2E-05

**2. Life cycle inventory analysis (LCI)**

Parameter	Value	Unit
Non-renewable material resources	2.2E+01	kg
Non-renewable energy resources	6.9E+03	MJ
Renewable material resources	1.1E+02	kg
Renewable primary energy	1.4E+02	MJ

**3. Material composition**

Material	Value	Unit
Steel	6.3E+02	kg
SUS	2.0E+01	kg
Cu	5.6E+01	kg
Al	2.6E+01	kg
Glass	1.2E+02	kg
Thermoplastics resin	1.3E+03	kg
Thermosetting resin	1.1E+01	kg
Rubber	2.2E+00	kg
Paper	6.8E+02	kg
Assembled circuit board	1.2E+02	kg
Medium-sized motor	1.2E+02	kg

**5. Additional explanation**

- Product destination: Japan
- Calculation method of use stage (scenario)
  - ① Expected usage period: five years
  - ② Estimated number of sheets used: Monocrome 297,600
  - ③ The impact of printing paper is not included
- Products selected in the scenario used for inventory calculation : Multifunction device (EP)
- Conformed to the International ENERGY STAR® Ver3.0 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.



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#### 6-1. Supplementary environmental information

- Conformed to the International ENERGY STAR® Ver3.2 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 v2.1.3 and Japan EPD Program by SuMPO Registry data v1.13

#### 8. Remarks

Date of the change: 8/10/2023 Version of ENERGY STAR Program was changed due to a misdescription.

- 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/>)

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