



RICOH COMPANY,LTD

Black & White MFP (Electrophotography)

IM 460F (for NA) EDP 423963



Functional unit

Per product

System boundary

■ final products □ intermediate products

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

Main specifications of the product

Product name: IM 460F (for NA) EDP 423963

Main specifications:

Black & White MFP (Electrophotography)

Print Speed : Monochrome 46ppm (LT)

Maximum Paper Size : A3

Function: Print /Copy /Scan /FAX

Included Units in Assessment : Automatic Reversing
Document Feeder, Automatic Duplexing Unit

Company Information

RICOH COMPANY,LTD

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

Registration#	JR-AI-25114E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	15 Oct 2025
Verification date	22 Aug 2025
Verification method	System certification
Verification#	JV-AI-25114
Expiration date	21 Aug 2030

PCR review was conducted by:

Approval date	1 Sep 2023
PCR review panel chair	Masayuki Kanzaki (SuMPO)

Third party verifier*

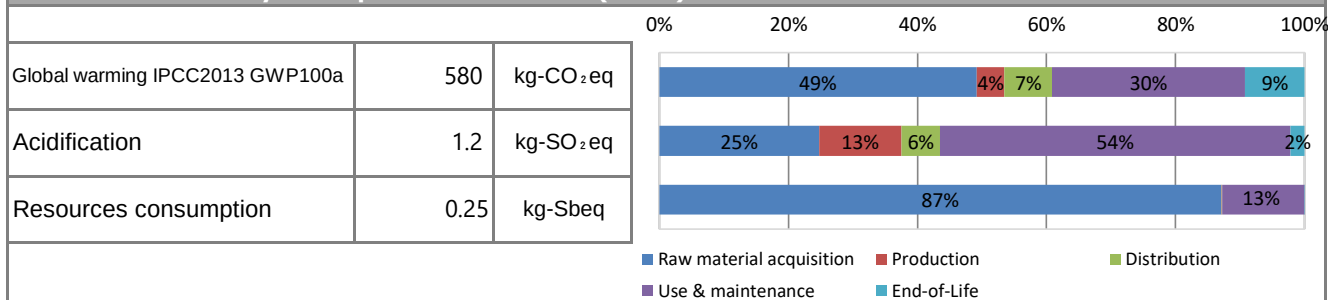
Hiroyuki Uchida

Independent verification of data & declaration in
accordance with ISO14025

☐ internal ☒ external

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

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	5.8E+02	2.9E+02	2.5E+01	4.3E+01	1.7E+02	5.3E+01
Acidification		kg-SO ₂ eq	1.2E+00	2.9E-01	1.5E-01	6.9E-02	6.3E-01	2.5E-02
Resources consumption		kg-Sbeq	2.5E-01	2.1E-01	8.1E-05	1.8E-04	3.1E-02	2.6E-05

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	3.8E+01
Renewable material resources	kg	6.3E+01

3. Material composition

Material	Value	Unit
SUS	2.2E+00	kg
Aluminum	1.6E-01	kg
Ordinary steel	1.7E+01	kg
Other metals	1.8E+00	kg
Thermoplastic resin	1.8E+01	kg
Thermosetting resin	4.1E-01	kg
Glass	1.1E+00	kg
Rubber	2.8E-01	kg
Paper	6.8E+00	kg
Lubricant	5.0E-03	kg
Mounting circuit board	6.2E-01	kg
Wood	2.5E-03	kg
Other	0.0E+00	kg



5. Additional explanation

Products selected in the scenario used for load calculation

--MFP (Electrophotography)

- Product destination: NA
- Expected usage period: 5 years
- Estimated number of sheets: 316,800 sheets ※

※Compatible with International Energy Star Program Ver.3.0

-The load on the image output medium (printing paper) is not included.

6-1. Supplementary environmental information

Compliant with the International Energy Star Program Ver.3.0. It also complies with the European RoHS Directive.

Assembly production of this product and production of the main parts, photoconductor and toner, are carried out at an ISO14001 certified factory.

Certification number: CN18/20330.01, EMS765926, CERT-0138391, JQA-E-70001

<https://jp.ricoh.com/sustainability/environment/management/iso>

7. Assumptions of secondary data used

IDEA v3.1.0, and registered data of Japan EPD Program by SuMPO v1.15 are used.

8. Remarks

- 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/>)