



RICOH COMPANY,LTD

Black&White MFP (Electrophotography)

# RICOH MP W4002 SPF



## 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:RICOH MP W4002 SPF  
Main specifications:  
MFP (Electrophotography)  
Print Speed : Monochrome 40ppm (A4)  
Maximum Paper Size : A2  
Function: Print /Copy /Scan/FAX  
Included Units in Assessment : Automatic Reversing  
Document Feeder, Automatic Duplexing Unit

Registration#	JR-AI-24565E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	30 May 2025
Verification date	22 May 2025
Verification method	System certificaion
Verification#	JV-AI-24565
Expiration date	21 May 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

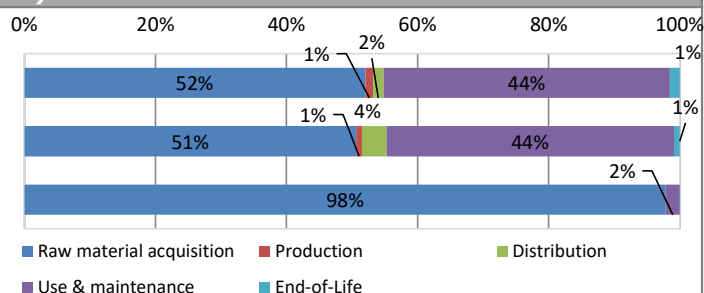
\*Auditor's name is stated if system certification has been performed.

## Company Information

RICOH COMPANY,LTD  
<https://www.rioh.co.jp/>

### 1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	2400	kg-CO <sub>2</sub> eq
Acidification	3.4	kg-SO <sub>2</sub> eq
Resources consumption	0.6	kg-Sbeq



Parameter	stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	2.4E+03	1.3E+03	2.9E+01	3.9E+01	1.1E+03	3.6E+01
Acidification		kg-SO <sub>2</sub> eq	3.4E+00	1.7E+00	2.9E-02	1.3E-01	1.5E+00	3.1E-02
Resources consumption		kg-Sbeq	5.9E-01	5.7E-01	1.9E-04	1.6E-04	1.2E-02	9.8E-05

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

Parameter	Unit
Non-renewable material resources	2.5E+02 kg
Renewable material resources	2.8E+02 kg

### 3. Material composition

Material	Unit
SUS	1.1E+01 kg
Aluminum	8.7E+00 kg
Ordinary steel	1.2E+02 kg
Other metals	4.6E+00 kg
Thermoplastic resin	6.0E+01 kg
Thermosetting resin	5.6E+00 kg
Glass	5.4E+00 kg
Rubber	1.4E+00 kg
Paper	1.9E+01 kg
Lubricant	4.1E-02 kg
Mounting circuit board	1.2E+00 kg
Wood	2.3E-03 kg
Other	0.0E+00 kg



## 5. Additional explanation

Products selected in the scenario used for load calculation

--MFP (Electrophotography)

- Product destination: Japan
- Expected usage period: 5 years
- Estimated number of sheets: 960,000 sheets ※

※Compatible with International Energy Star Program Ver.2.0

-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: JQA-E-70001 , SGS-CN18/20330

<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/>)