RICOH COMPANY, LTD

RICOH

imagine. change.

Black & White MFP (Electrophotography)

IM 460F (for TWN)



Functional unit

Per product

System boundary

Tel:(03) 3777-8111

■ final products □intermediate products Raw material acquisition,Production,Distribution, Use & maintenance,End-of-Life

Main specifications of the product

Product name:IM 460F Product destination: TWN Main specifications: Black & White MFP (Electrophotography) Print Speed : 46 prints/minute (A4) Maximum Paper Size : A4 Included Units in Assessment : Automatic Reversing Document Feeder, Automatic Duplexing Unit **Company Information** RICOH COMPANY,LTD

Registration#	JR-AI-23235E				
PCR number	PA-590000-AI-07				
PCR name	Imaging input and/or output equipme				
Publication date	7/31/2023				
Verification date	7/25/2023				
Verification method	Product-by-product				
Verification#	JV-AI-23235				
Expiration date	7/24/2028				
PCR review was	conducted by:				
Approval date	4/27/2023				
PCR review	Masayuki Kanzaki				
panel chair	(SuMPO)				
Third party verifier*					
Takahiro Atou					
Independent verification of data & declaration in					

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-23235E



EcoLeaf

Type III Environmental Declaration (EPD) Registration number : JR-AI-23235E

Japan EPD Program by SuMPO

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

4 Desults of life analy								
1. Results of life cycle	Impact as	ssessmen		20% 4	0%	60%	80%	100%
Global warming IPCC2013 GWP100a	620	kg-CO2eq		46%	<mark>3%</mark> 3%	39%	5070	9%
Acidification	0.39	kg-SO2eq		59%		1 <mark>%6%</mark> 2	27%	7% 0% 0%
Resources consumption	0.17	kg-Sbeq			94%			6%
Raw material acquisition Production Distribution Use & maintenance End-of-Life						!		
stage			Raw material			Use &		

Parameter	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO ₂ eq	6.2E+02	2.8E+02	1.9E+01	1.7E+01	2.4E+02	5.5E+01
Acidification	kg-SO ₂ eq	3.9E-01	2.3E-01	4.7E-03	2.3E-02	1.1E-01	2.7E-02
Resources consumption	kg-Sbeq	1.7E-01	1.6E-01	5.0E-05	7.2E-05	1.1E-02	2.1E-05

2. Life cycle inventory analysis (LCI)					
Parameter		Unit			
Non-renewable material resources	3.2E+01	kg			
Renewable material resources	5.6E+01	kg			

3. Material composition					
Material		Unit			
SUS	0.30	kg			
Aluminum	0.25	kg			
Ordinary steel	19	kg			
Other metals	1.9	kg			
Thermoplastic resin	17	kg			
Thermosetting resin	0.94	kg			
Glass	0.89	kg			
Rubber	0.19	kg			
Paper	6.5	kg			
Lubricant	0.0012	kg			
Mounting circuit board	0.84	kg			
Wood	0.00027	kg			

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*Data derived from LCA and not assigned to the impact categories of LCIA

5. Additional explanation

Products selected in the scenario used for load calculation

--Multifunction device (EP)

Product destination: TWN ※

** Transportation scenarios are for China, Thailand, and Ricoh Group.from three production sites in Japan, North America, Europe, on transportation routes to the five poles of China, Oceania and Japan transport load calculate the weighted average of transportation activity per kg of product from the total calculated using the annual production volume for each pole. Then, it is used as a transportation unit of calcuration.

- Expected usage period: 5 years
- Estimated number of sheets:316800 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:BSI-EMS646026 JQA-E-70001

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

7. Assumptions of secondary data used

IDEA v2.1.3, and registered data of Japan EPD Program by SuMPO v1.13 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/)

Registration number : JR-AI-23235E