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-25510E-A

コニカミノルタ株式会社
（KONICAMINOLTA ,INC.）

bizhub C450iRM



Functional unit

Per unit of product

System boundary

■ final products　□intermediate products

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

Main specifications of the product

Model name : bizhub C450iRM (For JP)

■Marking technologies : Electrophotographic Printer (EP)

■Printing speed(A4) : Monochrome 45 ppm
Color 45 ppm

■Printing paper : Maximum A3

■Duplex function : Standard

Company Information

Please direct any inquiries or comments
to e-mail: eco-support@konicaminolta.com

Registration#	JR-AI-25510E-A
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	31 August 2026
Verification date	21 August 2026
Verification method	System certificaion
Verification#	JV-AI-25510-A
Expiration date	20 August 2031

PCR review was conducted by:

Approval date	01 September 2023
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)

Third party verifier*

Kazuo Naitou

Independent verification of data & declaration in accordance with ISO14025

□internal　■external

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

SuMPO EPD JAPAN VERIFIED

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Results of life cycle impact assessment (LCIA)

		Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global Warming Potential total (GWP-total)	kg-CO_2eq	2.21E+02	5.97E+01	2.10E+01	2.24E+02	1.26E+02
Ozone layer destruction	kg-CFC-11eq	2.12E-05	3.06E-06	5.62E-08	3.89E-05	6.15E-07
Eutrophication	kg-PO_4^3-eq	8.15E-03	6.26E-06	9.45E-06	7.71E-03	9.21E-05
Acidification	kg-SO_2eq	2.37E-01	5.99E-02	2.83E-02	2.31E-01	8.52E-02
Photochemical ozone	kg-C_2H_4eq	6.13E-03	9.66E-04	2.51E-04	4.98E-03	7.86E-04
ADP elements	kg-Sbeq	3.03E-02	2.67E-04	4.78E-06	8.60E-02	4.89E-05

Life cycle inventory analysis (LCI)

Indicators describing use of primary resources

		Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
RPR_E	MJ	4.99E+02	5.10E+02	8.28E+00	1.09E+03	9.17E+01
RPR_M	MJ	1.44E+02	9.16E-03	8.55E-04	5.97E+00	1.35E-02
$NRPR_E$	MJ	3.27E+03	1.66E+03	2.34E+02	4.27E+03	5.69E+02
$NRPR_M$	MJ	6.32E+02	6.24E-01	3.16E-02	9.68E+02	3.48E-01

Additional explanation

・Production destination : JP
・Calculation method of use stage (Caluclated by the standard scenario for MFP (EP type))
- Expected usage period : five years
- Estimated number of sheets used : 297,600
- The impact of printing paper is not included
- The impact of expendables and Maintenance parts are included in the stage of Use&maintenance.
※ Conformed to the International ENERGY STAR® Ver3.2 Program
・The results of the environmental impact assessment are presented as relative figures only. These figures should not be interpreted as definitive indicators of environmental impact based solely on their magnitude.
Additionally, the calculated figures do not directly reflect the specific extent of environmental impact, environmental safety (e.g., whether thresholds are exceeded), or risk assessment (e.g., the degree of impact on the environment or human health).

Supplementary environmental information

・ENERGY STAR® Ver.3.2 qualified
・The assembly of this product and the production of its main components are carried out at an ISO14001 certified factory.

Material composition

Material		Unit
Steel	6.4E+01	kg
SUS	6.9E-01	kg
Al	9.1E-01	kg
Other metals	3.2E+00	kg
Glass	2.1E+00	kg
Thermoplastics resin	4.3E+01	kg
Wood	5.5E+00	kg
Paper	8.3E+00	kg
Rubber	5.8E-01	kg
Assembled circuit board	3.7E+00	kg
Medium-sized motor	6.7E+00	kg

Regulated hazardous substances

Substance	CAS No.	erence to standards or regulati

Assumptions of secondary data used

IDEA v3.4, registered data v1.16 of Japan EPD Program by SuMPO are used.

Remarks

This product aims to reduce environmental impact by reusing parts from market-recovery machines.　The cost of recycled parts is not factored into the raw material procurement process.

- 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/）
- This is a selfdeclared translation of EPD that can be accessed at [https://ecoleaf-label.jp/epd/2948] and is published for convenience purposes. Only the original EPD is valid and binding between parties.