

Hitachi, Ltd. Hitachi Virtual Storage Platform One Block 23 (15TB NVMe drive support)



Registration#	JR-BF-24006C	
PCR number	PA-520000-BF-04	
PCR name	IT equipments	
Publication date	5/29/2024	
Verification date	3/12/2024	
Verification method	Product-by-product	
Verification#	JV-BF-24006	
Expiration date	3/11/2029	
PCR review was conducted by:		
Approval date	8/15/2023	
	Ken Yamagishi	
	Sustainable Management Promotion Organizetion	
Third party verifier*		
	Takahiro Atou	
Independent verification of data & declaration in accordance with		
ISO/TS14067		
□internal ■external		
*Auditor's name is st	ated if system certification has been performed.	
	PCR number PCR name Publication date Verification date Verification method Verification# Expiration date PCR review war Approval date PCR review panel chair Third party ver Independent verific ISO/TS14067	

- Assumed operating years : 5years

* The specifications listed are subject to change without notice due to product improvements.

Company Information Hitachi, Ltd. +81-3-5471-2745

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Japan EPD Program by SuMPO

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

1. Quantification results, and contents of the declaration CFP quantification unit : Parameter Unit **CFP** Quantification results kg-CO₂eq 54,000 2,800 kg-CO₂eq Raw material acquisition Breakdown 800 kg-CO₂eq Production kg-CO₂eq 54 Distribution 50,000 kg-CO₂eq Use & maintenance End-of-Life 32 kg-CO₂eq Value on CFP mark 54,000 kg-CO₂eq Unit for the value on CFP mark Per sales unit (per unit) Value on CFP mark 10 kg-CO₂eq/TB · Year Unit for the value on CFP mark Per TB \cdot Year^{*1}

*Quantification results may slightly differ from the sum of the breakdown due to rounding of fractions.

*1 The amount of CO_2 emissions per unit function. Divided CFP results by the storage capacity (TB) and the assumed service life (Years).

2. Additional information

<Products>

- Product Name : Hitachi Virtual Storage Platform One Block 23
- Conditions for calculating CO₂eq emissions : Calculated using 1 controller chassis (HT-40SQ-NNANNA) with 24 NVMe SSDs installed. and 2 drive boxes (HT-F40SQ-DBN2E) with the maximum installed of 48 NVMe SSDs
- Product type name of the scenario used : Disk array (Solid State Drive(SSD) installed)
 - <Product main specifications> Storage capacity^{*1} : 1,080TB Operating years^{*2} : 5 years Drive type : Solid State Drive (NVMe SSD) Drive interfaces : NVMe Installed drives : 72 units
- CO₂eq emissions :
 -Per product : 54 t-CO₂eq
 -Per 1TB 1Year : 10 kg-CO₂eq/TB Year

(PA-520000-BF-04)

Measurement conditions :
 Power during use is measured by the measurement method specified by certified PCR

*1 The capacity is calculated as 1TB = 1,000,000,000,000 bytes*2 The operating years were assumed to be the statutory useful life(5 years for computer/others)

3. Supplementary environmental information

5.	Supplementary	environmental	information

Carbon Footprint of Products

CFP Declaration

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4. Interpretation

• Greenhouse gas emissions at the use and maintenance stages are the largest, accounting for about 93% of the entire life cycle, and the influence of power consumption during use is large, so it can be said that energy-saving performance during use is a very important factor. Please note that the usage and maintenance stage may not be thesame as the customer's terms of use because general conditions have been set and evaluated.

• In calculating CFP, we use our data for the amount of raw materials used, but since it is difficult to collect data at the time of manufacturing thousands of parts, we use general data at the time of manufacturing raw materials. Therefore, it may not reflect the unique characteristics of this product.

5. Assumptions of secondary data used

IDEA V2.1.3 , complemented by CO_2 Emissions Intensity v1.10.

6. 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/)

- The CFP only addresses the single impact category of climate change and does not assess other potential social, economic and environmental impacts arising from the provision of a product.

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