

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

Hitachi, Ltd. Hitachi Virtual Storage Platform E390



Functional unit	Registration#	JR-BF-22007C
Per sales unit (per unit)	PCR number	PA-520000-BF-01
	PCR name	IT equipment
System boundary	Publication date	3/18/2022
■ final products □intermediate products	Verification date	3/4/2022
	Verification method	Product-by-product
Main specifications of the product	Verification#	JV-BF-22007
All-Flash Array	Expiration date	3/3/2027
- Controller chassis PCR review		s conducted by:
HT-40SL-E390, HT-40SL-E390E	Approval date	2/19/2021
Up to 24 NVMe SSD	PCR review	Ken Yamagishi
The suffix E means encryption model	panel chair	Sustainable Management Promotion Organizetic
Up to 1 unit	Third party verifier*	
- Drive box		Yasuo Kozeki
Drive box is not supported	Independent verification of data & declaration in accordance with ISO/TS14067	
- Assumed operating years : 5years		
	□internal ■external	

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

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

Company Information Hitachi, Ltd.

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1. Quantification results, and contents of the declaration CFP quantification unit : Parameter Unit **CFP** Quantification results 33,000 kg-CO₂eq Raw material acquisition 1,500 kg-CO₂eq Breakdown Production 580 kg-CO₂eq kg-CO₂eq Distribution 45 kg-CO₂eq Use & maintenance 31,000 End-of-Life 27 kg-CO₂eq Value on CFP mark 33,000 kg-CO₂eq Unit for the value on CFP mark Per sales unit (per unit) Value on CFP mark 18.0 kg-CO₂eq/TB · Year Per TB · Year^{*1} Unit for the value on CFP mark

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

*1 The amount of CO₂ 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 E390
- Conditions for calculating CO₂eq emissions : Calculated using 1 controller chassis (HT-40SL-E390) with 24 NVMe SSDs installed.
- Product type name of the scenario used : Disk array (Solid State Drive(SSD) installed)

<Product main specifications>

Storage capacity^{*1} : 360 TB Operating years^{*2} : 5 years Drive type : Solid State Drive (NVMe SSD) Drive interface : NVMe Installed SSD : 24 units

 \cdot CO₂eq emissions : -Per product : 33 t-CO₂eq -Per 1TB · 1Year : 18 kg-CO₂eq/TB · Year

Measurement conditions :

-Power during use is measured by the measurement method specified by certified PCR (PA-520000-BF-01)

*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

Registration number : JR-BF-22007C

CFP Declaration

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 CO2 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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