

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 E1090



Functional unit	Registration#	JR-BF-22009C-A			
Der seles weit (ner weit)	PCR number	PA-520000-BF-01			
Per sales unit (per unit)	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-22009			
All-Flash Array	Expiration date	3/3/2027			
- Controller chassis	PCR review was conducted by:				
HT-40SM-E1090A Up to 1 unit	Approval date	2/19/2021			
- Drive box		Ken Yamagishi			
HT-F40SM-DBN (Up to 24 NVMe SSD)		Sustainable Management Promotion Organizetic			
Up to 4 units	Third party ver	l party verifier*			
HT-F40SM-DBS((Up to 24 SAS SSD)		Yasuo Kozeki			
Up to 32 units	Up to 32 units Independent verification of data & declaration in ac with ISO/TS14067				
□internal ■external					

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

\*The maximum installed drives represents

the case of connecting only a single type of drive box

The mix of the SAS/NVMe drive is excluded

- 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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1. Quantification results, and contents of the declaration CFP quantification unit : Parameter Unit **CFP** Quantification results 160,000 kg-CO<sub>2</sub>eq Raw material acquisition 4,700 kg-CO<sub>2</sub>eq Breakdown Production 1,800 kg-CO<sub>2</sub>eq 70 kg-CO<sub>2</sub>eq Distribution kg-CO<sub>2</sub>eq Use & maintenance 150,000 End-of-Life 42 kg-CO<sub>2</sub>eq Value on CFP mark 160,000 kg-CO<sub>2</sub>eq Unit for the value on CFP mark Per sales unit (per unit) Value on CFP mark 11.0 kg-CO₂eq/TB · Year Per TB · Year<sup>\*1</sup> Unit for the value on CFP mark

Carbon Footprint of Products

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

\*1 The amount of CO<sub>2</sub> emissions per unit function. Divided CFP results by the storage capacity (TB) and the assumed service life (Years).

## 2. Additional information

Registration number : JR-BF-22009C-A

#### <Products>

- Product Name : Hitachi Virtual Storage Platform E1090
- Conditions for calculating CO<sub>2</sub>eq emissions :
  - Calculated using 1 controller chassis (HT-40SM-E1090A) and 4 drive boxes (HT-F40SM-DBN) with the maximum installed of 96 NVMe SSDs
- Product type name of the scenario used : Disk array (Solid State Drive(SSD) installed)

<Product main specifications> Storage capacity<sup>\*1</sup> : 2,880TB Operating years<sup>\*2</sup> : 5 years Drive type : Solid State Drive (SSD) Drive interface : NVMe Installed drives : 96 units

 $\cdot$  CO<sub>2</sub>eq emissions : -Per product : 160 t-CO<sub>2</sub>eq -Per 1TB · 1Year : 11.0 kg-CO<sub>2</sub>eq/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

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#### 4. Interpretation

• Greenhouse gas emissions at the use and maintenance stages are the largest, accounting for about 96% 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

Date of change: April 25, 2022 Changes to the description of main specifications.

- 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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