CARBON FOOTPRINT (CFP)

Hitachi Virtual Storage Platform E790
Hitachi, Ltd.

CFP Declaration
Registration Number: JR-BF-21002C

Ecoleaf Environmental Label Program

Sustainable Management Promotion Organization
2-2-1 Kajicho, Chiyoda-ku, Tokyo

Unit of Measure:

Sales unit (per vehicle)

Calculation Target Stage:

Final Goods Intermediate Goods

Product Model:

HT-40SJ-E790, HT-40SJ-E790E
*Controller chassis model. The suffix E is the encryption model.

Main Specifications:

All-flash array

Controller Chassis:

HT-40SJ-E790 (Up to 24 NVMe SSD drives can be installed)
Up to 1 unit

Drive Box:

No Drive Box (Not Expandable)

Cache Memory:

768GB

Assumed Service Life:

5 Years

*Specifications are subject to cahnge without notice due to product improvements.

Contact Information:

Hitachi, Ltd.
03-5741-2745

Registration Number:

JR-BF-21002C

Applied PCR Number:

PA-520000-BF-01

PCR Name:

IT Machine

Release Date:

April 1, 2021

Validation Pass Date:

March 25, 2021

Validation Method:

Individual Product Verification Method

Validation Number:

JVV-BF-21002

Validation Period:

March 24, 2026

Conducting a PCR Review:

Certification Date: February 19, 2021
Ken Yamagishi, Chairman
(Sustainable Management Promotion Organization)

Third Party Verifier*:

External Verified Yasuo Kozeki
Independent verification of this declaration and data according to ISO/TS14067

*In the case of verification within an entity that has recieved system certification, enter the name of the inspector.

CFP Calculation Results

Calculation Unit: Sales Unit (per vehicle)

Project	Figures	Unit
CFP Calculation Results	40,000	KG-CO_2eq/KG
Procurement of Raw Materials	1,500	KG-CO_2eq/KG
Production	630	KG-CO_2eq/KG
Distribution	45	KG-CO_2eq/KG
Use & Maintenance Management	38,000	KG-CO_2eq/KG
Disposal/Recycling	25	KG-CO_2eq/KG
Numeric Display	40,000	CO_2eq/KG
Display Unit	Sales Unit (per vehicle)	
Numeric Display	22	KG-CO_2eq/TB•Year
Display Unit	TB/Per Year*	

*Due to rounding, the total value of the CFP calculation results and the breakdown may differ slightly.
*CO2 emissions per unit functional quantity. Divide CFP calculation results by storage capacity (TB) and expected usage period (years).

Additional Information on Calculation Results

Product Name:
Hitachi Virtual Storage Platform E790

Calculation Conditions for CO_2eq Emissions:
Calculated based on a configuration in which the maximum number of NVMe SSDs (24 units) are installed in one controller chassis (HT-40SJ-E790)

Product Type Name of Scenario Used:
Disk Array (equipped with semiconductor disk drives)

Main Product Specifications:
Storage capacity[1]- 1,361TB
Assumed Usage Period[2]- 5 Years
Type of Drive- Semiconductor Disk Drive (NVMe SSD)
Type of Drive Interface- SAS
Number of Semiconductor Disk Drives- 24

Cache Memory:
768GB

CO_2eq Emissions:
40 t-CO_2eq per product
22 kg-CO_2eq/TB year per year

*Measurement conditions: Power consumption during use is measured by the measurement method specified by the certified PCR (PA-520000-BF-01)
[1] This capacity is calculated as 1TB=1,000,000,000,000Byte
[2] Estimated years of use are calculated based on the statutory useful life (5 years for electronic computers and other items)

Interpretation of CFP Calculation Results

•Use and maintenance of CFP calculation results are the largest, accounting for about 95% of the total, and the impact of power consumption during use. It can be said that the energy-saving performance during use is a very important factor because of the large amount of noise. In addition, the use and maintenance stage shall be Because we set and evaluated the case, it may not be the same as the customer's terms of use.

•When calculating CFP, we use data from our company regarding the amount of raw materials used, but because it is difficult to collect manufacturing data for thousands of parts, we use general raw material manufacturing data. . Therefore, it may not reflect the unique features of this product.

Concept of Secondary Data Used

While preferentially using IDEA v2.1.3, supplemented with registration basic unit v1.10.

•Please refer to the PCR and Calculation/Declaration Regulations for data calculation methods.
•Comparisons are permitted only when the conditions stipulated in the calculation and declaration regulations are met. (Reference URL: https://ecoleaf-label.jp/regulation/)
•We have not evaluated other potential social/economic/environmental impacts other than climate change arising from the provision of our products.