

# AFF A400 carbon footprint report



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NetApp® AFF A-Series all-flash systems deliver leading performance and efficiency for the most demanding business-critical applications. The midrange AFF A400 delivers all the versatility you need no matter what types of workloads you are running in a 4U HA form factor. On premises or in the cloud, scale up or scale out, SAN or NAS—deploy any way you want. Simply flexible, simply fast, and simply resilient.

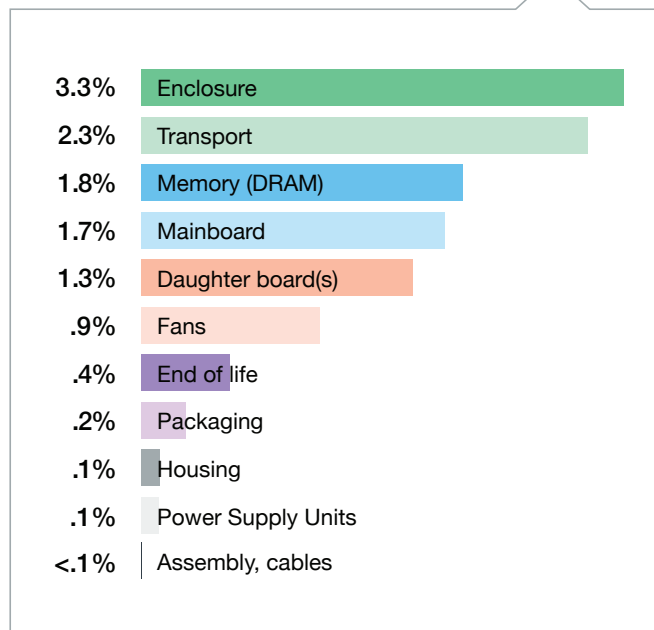
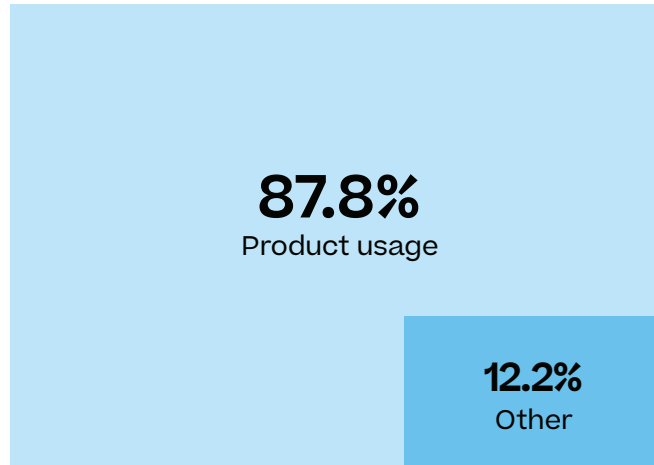
Data centers consume a significant amount of electricity and contribute to global greenhouse gas emissions. NetApp is providing lifetime carbon footprint estimates for our storage solutions to help customers better understand the environmental impacts of our storage systems.

NetApp uses Product Attribute to Impact Algorithm (PAIA) to calculate the carbon emissions associated with a product through its lifecycle, including acquisition of raw materials, manufacturing, distribution, product use, and final disposition. PAIA is a streamlined lifecycle assessment (LCA) methodology for assessing environmental impacts associated with the entire lifecycle of a product. The PAIA model was developed by the Materials Systems Laboratory at the Massachusetts Institute of Technology (MIT) and is a leading and globally accepted methodology for streamlining the product carbon footprint process.

PAIA LCA analysis estimates are not meant to be used as a comparison of products from different suppliers. For more information about PAIA, its intended uses, and its limitations, see this overview.

## Estimated lifetime carbon footprint for AFF A400: 14,961 kg CO<sub>2</sub>e<sup>1</sup>

The majority of a product's lifetime carbon footprint is from its use. "Other" includes activities from upstream manufacturing/supply chain and downstream end of life.



<sup>1</sup> All estimates of environmental impact and/or carbon footprint are uncertain. PAIA analyses provide reasonable estimates of the carbon impact of products, along with a range of uncertainty of the results. Standard deviation for this analysis is +/- 8,643 kg CO<sub>2</sub>.

<sup>2</sup> This analysis used PAIA version 1.3.2. Future results could change as the tool is updated.

<sup>3</sup> Use location for this PAIA analysis is EU; actual emissions calculations are dependent on where the equipment is used (specific state/country).

Assumptions used in this analysis are shown in the table below.<sup>2</sup>

|                                       |   |
|---------------------------------------|---|
| Use location <sup>3</sup>             | EU  |
| Country of origin                     | Hungary   |
| Usage life                            | 4 Years   |
| Memory (HA)                           | 256GB   |
| CPU cores (HA)                        | 40  |
| Storage                               | Requires external NS224 or DS222C storage shelf (LCA reports available) |
| Weight                                | 49.9 kg   |
| Total energy consumption <sup>4</sup> | 6482 kWh/year   |
| Transportation                        | 1500 km, air<br>600 km, truck   |

### About NetApp

In a world full of generalists, NetApp is a specialist. We're focused on one thing, helping your business get the most out of your data. NetApp brings the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. Our industry-leading solutions work across diverse customer environments and the world's biggest public clouds.

As a cloud-led, data-centric software company, only NetApp can help build your unique data fabric, simplify and connect your cloud, and securely deliver the right data, services and applications to the right people—anytime, anywhere. [www.netapp.com](http://www.netapp.com)

<sup>4</sup> Total energy consumption is based on the fiftieth percentile of power utilization being reported across all customer AFF A400 systems sending AutoSupport information into NetApp. The AFF A400 field population used in our power consumption analysis ranges across all possible configuration options and power utilization rates. For a more concise power consumption analysis of your AFF A400 storage systems, visit [NetApp Cloud Insights](#) to monitor, optimize, and secure your resources or [Harvest Environmental Reporting](#) tool.