

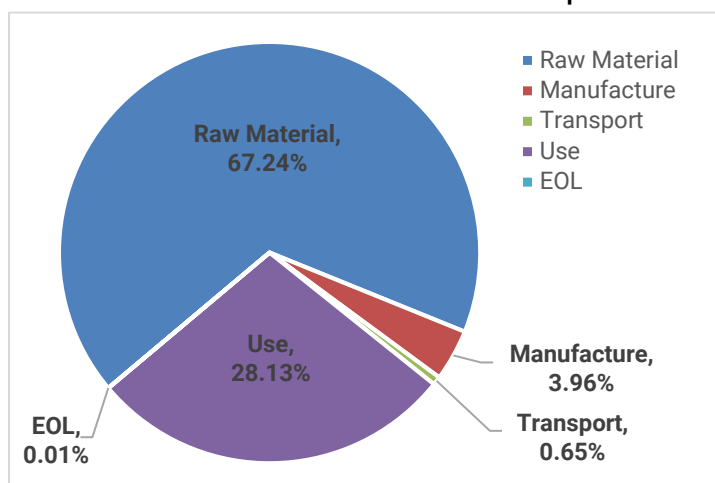
BenQ Product Carbon Footprint (PCF)

AH500ST

311.40 kgCO₂e



Estimated Carbon Footprint



Note 1:

Disclaimer:

All estimates of carbon footprint are uncertain.

The carbon footprint described here is based on estimates of the current state of the product life cycle. However, it is subject to various known or unknown risks or uncertainties, so actual results may be different from the statement.

Note 2:

This product is based on ISO 14067:2018 for carbon footprint inventory and calculation. It utilizes SimaPro 9.6 for performing PCF calculations. The lifecycle impact assessment methodology is based on the IPCC 100-year Greenhouse Gas Emissions Assessment Method (IPCC 2021 GWP 100) to calculate the CO₂ emission equivalent of a product from raw material extraction to product disposal (Cradle to Grave).

Note 3:

This pie chart illustrates the percentage contribution of each element to the total life cycle CO₂e impacts of the product. Elements showing 0% have contributions of less than 0.01%.

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Assumptions for this carbon footprint calculation:

Category	Element	Input	Unit
Product Specifics	Weight	5.2	kg
	Product Lifetime	5	years
	Annual Power Consumption	76.98	kWh
Transportation from Assembly to Customer	To country of use : by ship	1	fraction
	In country of use : by truck	1	fraction
End of life	Material Recovery	85.52	%
Location	Assembly Location	China	
	Use Location	Europe	

The Life Cycle Analysis (LCA) is divided into five categories: Raw Material, Manufacture, Transport, Use, and End-of-Life. Below is a brief description of each phase:

Raw Material

This life cycle phase includes emissions generated during the extraction, production, and transport of raw materials.

Manufacture

This life cycle phase includes emissions generated during the manufacture of subassemblies (including the product packaging) and product assembly.

Transport

Emissions included in this phase include all those generated during the air, ocean or land distribute of finished or semi-finished BenQ products between BenQ facilities and from BenQ facilities to customers.

Use

This phase considers the emissions generated during the product's operational life.

End-of-life

The recycle rate is calculated based on BenQ's own calculated WEEE recycle rate.