

LG reduced the harm from air conditioners for the planet: less plastic, less emissions

LG Electronics began to use an updated production process for commercial cassette 4-flow air conditioners aimed at reducing the negative environmental impact. The company reduced plastic consumption and carbon dioxide emissions, introducing new material for the manufacture of external panels and changing the approach to production.

The international organization TÜV Rheinland confirmed that the new changes have reduced the carbon trace of one device to 14.85 kg of CO₂-Equivalent. The company emphasized that such a result was achieved not only thanks to a change in technology, but also by the transition from acrylonitrilebutadienstyrene to polypropylene, which has a smaller carbon trace.

LG also uses the foaming method when casting under pressure, when gaseous nitrogen is injected into the shape and forms bubbles inside the material. This made it possible to reduce plastic consumption by about 900 grams for each unit of production. According to the company, the annual decrease in plastic consumption will be about 270 tons, and the annual reduction in carbon emissions - more than 4400 tons.

Verification Statement

Registration No.: V1 50686451 0001
Report No.: KR25T8WV 001
Client: LG Electronics Inc.
84, Wanam-ro, Seongsan-gu,
Changwon-si, Gyeongsangnam-do 51554
Republic of Korea
Product: Air Conditioner
(Front panel for 4-way cassette type air-conditioner indoor unit)
Verified Claim: Carbon emissions from plastic were reduced
by 14.85 kgCO2-eq. compared to the previous unit.
Verified acc. To: ISO 14067:2018
Type designation listed on the next page
The defined verification program has been executed based on information provided to TÜV Rheinland LGA Products GmbH. The statement refers to the above-mentioned product and is based on a verification of information and records provided by the applicant. It was verified that the claims defined by the verification statement holder are substantiated by documented evidence. The General and Common Terms and Conditions of Usage of the TÜV Rheinland Verification Label apply. The verification statement does not imply any testing of a product nor does it express any warranty, guarantee or other assurances of the above product. The statement does not imply the assessment of the production of the product. If new facts or information that could materially affect the verification statement are discovered by the statement holder after the issue date, this shall be made available to the Verification body.
Valid until: 2026-07-15
Verification Body

JongMan Kim
Date: 2025-07-16
TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
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The technology has already been used since June of this year in the production of cassette air conditioners of a 4-flow type and, as expected, will gradually begin to be used in other models for residential and commercial premises.

LG adheres to a carbon neutral strategy and plans to reduce the volume of greenhouse gas issues by 54.6 percent by 2030 compared to the 2017 level. For this, the company uses highly effective equipment, renewable energy sources and its Core Tech technology.

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