Environmental Declaration - Type II Self-declared Environmental Claims

General information

Declaration type

Environmental labels and declarations - Self-declared environmental claims - Type II environmental labelling - compliant with ISO 14021:2016

This document encompasses a range of products with similar material compositions and specifically highlights the product with the greatest weight within that range.

Owner of this declaration

BELIMO Automation AG
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Switzerland

Description of the organisation

BELIMO Automation AG is a leading global developer, manufacturer, and distributor of field devices, which are crucial in the precise control of heating, ventilation, and air conditioning systems. Our consistent commitment to innovation, reliability, and energy efficiency directly influences system performance and efficiency.

Our global headquarters is in Hinwil, Switzerland, and we have a presence in more than 80 countries worldwide. Our focus on providing localised customer support and service underlines our role as a reliable international partner. Our dedication to sustainability and environmental protection is evident in our corporate strategies, daily operations, and especially in our approach to product development.

Product-related or management system-related certifications

Quality management ISO 9001

Environmental management ISO 14001

Belimo and the UN Sustainable Development Goals (SDGs)

At Belimo, our product portfolio, business processes, and values are naturally aligned with UN Sustainable Development Goals, focusing on the environment, health and well-being, and society.

Trust, integrity, competence, and responsibility – values that lie at the foundation of environmental, economic, and social sustainability – define our corporate culture. As an employer, we support personal commitment, teamwork, cultural diversity, and the courage to take risks to inspire customers. We have designed and optimised our product portfolio to maximise energy efficiency and longevity. One hundred percent of our sales align with the UN Sustainable Development Goals.

Our overall sustainability mission is to promote global sustainability by creating healthier indoor environments that consume less energy.

Health and well-being

Belimo products offer improved indoor air quality, promoting the health, comfort, and well-being of building occupants and enabling critical applications. Our intelligent HVAC components control the major factors affecting room climate and assure a stable and healthy environment (SDG 3).

Environment

Our products save energy and reduce CO2 emissions. Moreover, they increase the energy efficiency of buildings (SDG 7) and contribute to their resilience (SDG 9), while making our cities safer and more sustainable (SDG 11). Through our activities, we contribute to doubling the global rate of improvement in energy efficiency, creating measurable sustainability benefits, and strengthening resilience and adaptive capacity to climate-related disasters (SDG 13).

Society

As an employer, we continuously create excellent jobs that emphasise personal commitment, engagement, growth, teamwork, and cultural diversity (SDG 8). We uphold sustainable procurement practices and localised sourcing, minimising waste, and optimising logistics through modularising our product ranges and applying environmental management standards at our central production sites (SDG 12).

Covered products

Product group: ..DT.. **Representative product:** 22DT-14T

This document is based on the representative product with the greatest weight in the product group. The list that follows includes all products covered by this declaration.

Product family:

01CT-1RH	01DT-1AH	01DT-1AL	01DT-1AN	01DT-1AP	01DT-1AR
01DT-1AT	01DT-1BH	01DT-1BL	01DT-1BN	01DT-1BP	01DT-1BR
01DT-1BT	01DT-1CH	01DT-1CL	01DT-1CN	01DT-1CP	01DT-1CR
01DT-1CT	01DT-1DH	01DT-1DL	01DT-1DN	01DT-1DP	01DT-1DR
01DT-1DT	01DT-1FL	01DT-1FN	01DT-1FP	01DT-1FR	01DT-1FT
01DT-1HP	01DT-1LH	01DT-1LL	01DT-1LN	01DT-1LP	01DT-1LR
01DT-1LT	01DT-1MH	01DT-1ML	01DT-1MN	01DT-1MP	01DT-1MR
01DT-1NH	01DT-1NL	01DT-1NN	01DT-1NP	01DT-1NR	01DT-1QH
01DT-1QL	01DT-1QN	01DT-1QP	01DT-1QR	01DT-1QT	01DT-1RH
01DT-1RL	01DT-1RN	01DT-1RP	01DT-1RR	22DT-12H	22DT-12L
22DT-12N	22DT-12P	22DT-12R	22DT-12T	22DT-14H	22DT-14L
22DT-14N	22DT-14P	22DT-14R	22DT-14T		

Product information

Chemical disclosure

RoHS EU Directive 2011/65/EU (RoHS)

This product complies with the EU Directive 2011/65/EU (RoHS), which restricts the use of specific hazardous materials in electrical and electronic equipment.

REACH 1907/2006 (EC Regulation REACH)

This product complies with the provisions of EC Regulation No 1907/2006, also known as REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals).

Recycling and end-of-life information

Recycling quota 22.3 %

The recycling quota (metal material proportion) is calculated using the following formula:

Recycling quota = 100 x Metal weight / Total weight

Recycling rate 100 %

For calculating the recycling rate (metal and plastic material proportion), the following formula is used:

Recycling rate = 100 x (Metal weight + Plastic material weight) / Total weight

Disposal

Product

Devices belonging to this product family should be properly disposed of after their life cycle and should not be disposed of with regular domestic waste.
Local and applicable regulations apply.

Packaging

Belimo's packaging providers perform their work according to RESY guidelines.
Packaging is recyclable.

Environmental benefit

Belimo offers tailored and optimised solutions that cater to all customer demands, and improve cost efficiency over the entire building life cycle.

Belimo products and processes are continuously optimised and enhanced. This is achieved by close collaboration with suppliers and partners.

Logistics

Transport Due to the strategic presence of our Customisation Centres globally, Belimo has effectively managed to minimise transport routes.

Product materials and fire load

	Material	Weight	% Weight	Fire load
Plastic	EPDM	2.09 g	1%	0.08 MJ
	PA	10.35 g	7%	0.29 MJ
	PC	84.2 g	57%	2.44 MJ
	PE	1.14 g	1%	0.05 MJ
	PET	0.1 g	<0.5%	
	Other plastic materials	4.97 g	3%	0.15 MJ
Electronics	Electronics	11.7 g	8%	0.23 MJ
Metal	Steel	29.64 g	20%	
	Silicon	3.23 g	2%	
Total		**147.42 g**		**3.24 MJ**

* without packaging materials

Fire load calculation according to the formula:

Fire load [MJ] = weight [kg] x energy value [MJ/kg]

Basic embodied carbon calculation

Calculation methodology The embodied carbon calculation herein follows the 'Basic' methodology outlined in TM65 by the Chartered Institution of Building Services Engineers (CIBSE). This approach relies on data pertaining to the product's material composition to compute embodied carbon for both the A1 (Material Extraction) stage and the B3 (Repair) stage.

Scale-up and buffer factors are employed to account for additional life cycle stages such as A2 (Transport to Factory), A3 (Manufacturing), A4 (Transport to Site), C2 (Transport to Waste Processing), C3 (Waste Processing), and C4 (Disposal).

Product life service 15 years

Product complexity Category 2 (CIBSE TM65 Table 4.3)

Embodied carbon results [$kgCO_2e$]

A1: Material extraction (components that are replaced in B3)	0.05 $kgCO_2e$
A1: Material extraction (original product)	0.54 $kgCO_2e$
A1–A4, B3, C2–C4: Total embodied carbon with scale-up and buffer factors	**1.08 $kgCO_2e$**

Assumptions

A1: Material carbon coefficient source	CIBSE TM65, Table 2.1
B3: Materials replaced as part of repair (%)	CIBSE TM65, Table 2.1

Disclaimer

This environmental declaration, classified as Type II, was prepared by Belimo Automation AG in alignment with ISO 14021 standards. This document is provided solely for informational purposes. As Belimo products continue to advance technically, we reserve the right to introduce technical modifications without prior notice or announcement.

The information in the product confirmation is based on Belimo's best knowledge at the time of release of this document. This declaration is provided on an “as is” basis without express or implied warranties or commitments of any kind.