

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 Brunnenbachstrasse 1 8340 Hinwil 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-	Quality management ISO 9001
related certifications	Environmental management ISO 14001
Belimo and the UN Sustainable Developme	nt 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-beingBelimo 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).



Belimo and the UN Sustainable Development Goals (SDGs)

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: Air	damper actuator mechanical fail-safe
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Representative product: EF24A-SR-S2

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:	EF					
EF24A	EF24A-MP	EF24A-S2	EF24A-SR	EF24A-SR-S2	EF230A	
Product family:	LF					
LF24	LF24-MFT2	LF24-S	LF24-SR	LF24-VST	LF230	
LF230-S						
Product family:	NF					
NF24A	NF24A-3	NF24A-MOD	NF24A-MP	NF24A-S2	NF24A-SR	
NF24A-SR-S2	NF24A-SZ	NF24A-SZ-S2	NF24A-VST	NF24G-MP-L	NF24G-SR-L	
NF24G-SR-S2-L	NFA	NFA-S2	NFG-L	NFG-S2-L		
Product family:	SF					
SF24A	SF24A-3	SF24A-MOD	SF24A-MP	SF24A-S2	SF24A-SR	
SF24A-SR-S2	SF24A-SZ	SF24A-SZ-S2	SF24A-VST	SF24G-MP-L	SF24G-SR-L	
SF24G-SR-S2-L	SFA	SFA-S2	SFG-L	SFG-S2-L	VSF24A-LP1	
Product family:	TF					
TF24	TF24-3	TF24-MFT	TF24-S	TF24-SR	TF230	
TF230-S	TF230-SR					
Product informatio	n					
	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	82.55 %				
		The recycling quota using the following	ortion) is calculated			
		Recycling quota = 1	00 x Metal weight / To	otal weight		
		00.00.0/				
	Recycling rate	99.99 %				
	Recycling rate		recycling rate (metal a	nd plastic material prop	portion), the following	



Recycling and end-of-life information				
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 provide Packaging is recyclable.	ers perform their wo	rk according to RESY gu	idelines.
Environmental benefit				
	Belimo offers tailored and improve cost efficiency ove			er demands, and
	Belimo products and processes are continuously optimised and enhanced. This is achieved close collaboration with suppliers and partners.			ced. This is achieved
Logistics				
Transport	Due to the strategic presence of our Customisation Centres globally, Belimo has effective managed to minimise transport routes.			elimo has effectively
	Component Material Weight			
Product materials and fire load				
Product materials and fire load				
	Material	Weight	% Weight	Fire load
Plastic	PA	53.02 g	1%	1.48 MJ
	РС	171.62 g	4%	4.98 MJ
	PET	0.06 g	<0.5%	
	POM	60.28 g	1%	1.02 MJ
	РР	1.1 g	<0.5%	0.05 MJ
	PVC	12.21 g	<0.5%	0.22 MJ
	Other plastic materials	90.31 g	2%	2.71 MJ
Electronics	Electronics	411.38 g	9%	8.23 MJ
Metal	Aluminium	2387.44 g	52%	
	Brass	62.7 g	1%	
	Steel	1335.07 g	29%	
Others	Cardboard	0.36 g	<0.5%	
Total		4585.53 g		18.69 MJ
	* without packaging materials			
	Fire load calculation accord	ling to the formula:		

Fire load calculation according to the formula:

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



Disclaime

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) 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 ₂ e]	A1: Material extraction (components that are replaced in B3)	2.17 kgCO ₂ e			
	A1: Material extraction (original product)	21.72 kgCO₂e			
	A1–A4, B3, C2–C4: Total embodied carbon with scale-up and buffer factors	43.49 kgCO₂e			
Assumptions	A1: Material carbon coefficient source CIBSE TM65 B3: Materials replaced as part of repair (%) CIBSE TM65	•			
er					
	This environmental declaration, classified as Type II, was in alignment with ISO 14021 standards. This document is	provided solely for informational			

in alignment with ISO 14021 standards. This document is provided solely for information AG 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.