

Environmental Declaration - Type II Self-declared Environmental Claims

General information

Declaration type	<p>Environmental labels and declarations - Self-declared environmental claims - Type II environmental labelling - compliant with ISO 14021:2016</p> <p>This document encompasses a range of products with similar material compositions and specifically highlights the product with the greatest weight within that range.</p>
Owner of this declaration	<p>BELIMO Automation AG Brunnenbachstrasse 1 8340 Hinwil Switzerland</p>
Description of the organisation	<p>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.</p> <p>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.</p>
Product-related or management system-related certifications	<p>Quality management ISO 9001 Environmental management ISO 14001</p>

Belimo and the UN Sustainable Development Goals (SDGs)

	<p>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.</p> <p>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.</p> <p>Our overall sustainability mission is to promote global sustainability by creating healthier indoor environments that consume less energy.</p>
Health and well-being	<p>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).</p>
Environment	<p>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).</p>

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 **Representative product:** PMCA-BAC-S2-T

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: CM..					
CM24-F-L	CM24-F-R	CM24-L	CM24-L-100D.2	CM24-L-150D.2	CM24-L-160D.2
CM24-MPL-L	CM24-MPL-R	CM24-R	CM24-SR-F-L	CM24-SR-F-R	CM24-SR-F-T-L
CM24-SR-F-T-R	CM24-SR-L	CM24-SR-L-100D.2	CM24-SR-L-125D.2	CM24-SR-L-150D.2	CM24-SR-L-160D.2
CM24-SR-R	CM24-SR-T-L	CM24-SR-T-R	CM24-SX-L	CM24-SX-R	CM24-SX-T-L
CM24-SX-T-R	CM24-T-L	CM24-T-R	CM24G-F-L	CM24G-F-R	CM24G-L
CM24G-R	CM24G-SR-F-L	CM24G-SR-F-R	CM24G-SR-L	CM24G-SR-R	CM230-F-L
CM230-F-R	CM230-L	CM230-L-100D.2	CM230-L-125D.2	CM230-L-150D.2	CM230-L-160D.2
CM230-R	CM230G-F-L	CM230G-F-R	CM230G-L	CM230G-R	
Product family: GM..					
GM24A	GM24A-MOD	GM24A-MP	GM24A-MP-TP	GM24A-SR	GM24A-SR-TP
GM24A-TP	GM24G-MP-T	GM24G-SR-T	GM24G-T	GM230A	GM230A-TP
GM230G-T	GMC230A				
Product family: LM..					
LM24A	LM24A-F	LM24A-KNX	LM24A-MOD	LM24A-MOD-J6	LM24A-MP
LM24A-MP-TP	LM24A-S	LM24A-S-TP	LM24A-SR	LM24A-SR-F	LM24A-SR-TP
LM24A-SX	LM24A-SX-F	LM24A-TP	LM24A-VST	LM24AP5	LM72A
LM72A-S	LM72A-SR	LM230A	LM230A-F	LM230A-S	LM230A-S-TP
LM230A-TP	LM230ASR	LM230ASR-TP	LMC24A	LMC24A-F	LMC24A-SR
LMC24A-SR-F	LMC230A	LMC230A-F	LMC230A-S	LMQ24A	LMQ24A-MF
LMQ24A-SR	LMQ24A-VST				
Product family: NM..					
NM24A	NM24A-F	NM24A-KNX	NM24A-MOD	NM24A-MOD-J6	NM24A-MP
NM24A-MP-TP	NM24A-S	NM24A-S-TP	NM24A-SR	NM24A-SR-F	NM24A-SR-TP
NM24A-TP	NM24A-VST	NM24AP5	NM24P	NM24P-MP	NM24P-P5
NM24P-S	NM24P-SR	NM230A	NM230A-F	NM230A-S	NM230A-S-TP
NM230A-TP	NM230ASR	NM230ASR-TP	NM230P	NM230P-S	NM230PSR
NMC24A-MP	NMD230A	NMQ24A	NMQ24A-MF	NMQ24A-SR	NMQ24A-VST
Product family: PMCA..					
PMCA-BAC-S2-T	PMCA-S2-T				
Product family: SM..					
SM24A	SM24A-MA	SM24A-MOD	SM24A-MP	SM24A-MP-TP	SM24A-PC
SM24A-R9	SM24A-S	SM24A-S-TP	SM24A-SR	SM24A-SR-TP	SM24A-TP
SM24A-VST	SM24AP5	SM24P	SM24P-MP	SM24P-S	SM24P-SR
SM230A	SM230A-S	SM230A-S-TP	SM230A-TP	SM230ASR	SM230ASR-TP

Covered products

SM230P	SM230P-S	SM230PSR	SMC24A-MOD	SMC24A-MP	SMD24A
SMD230A	SMQ24A	SMQ24A-MF	SMQ24A-SR	SMQ24A-VST	SMQ24G
SMQ24G-MF	SMQ24G-SR				

Product family: TMC..

TMC24A	TMC24A-S	TMC24A-SR	TMC24A-SR-F	TMC230A	TMC230A-F
TMC230A-S	TMC230A-S-F	TMC230ASR			

Product family: UM..

UM24Y-F-L.1	UM24Y-F-R.1	UM24Y-L.1	UM24Y-R.1	UM24Y-SR-F-L.1	UM24Y-SR-F-R.1
UM24Y-SR-L.1	UM24Y-SR-R.1	UM230Y-F-L.1	UM230Y-F-R.1	UM230Y-L.1	UM230Y-R.1

Product family: V..M..LP1

VGM24A-LP1	VLM24A-LP1	VNM24A-LP1	VSM24A-LP1
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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	72.26 %
	The recycling quota (metal material proportion) is calculated using the following formula: Recycling quota = 100 x Metal weight / Total weight
Recycling rate	99.03 %
	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.

	Component	Material	Weight
Packaging values	box Insert 255x350x7	56088	59 g
	Foldbox PR 390x150x270	56522-00001	237 g

Product materials and fire load

	Material	Weight	% Weight	Fire load
Plastic	EPDM	0.26 g	<0.5%	0.01 MJ
	PA	53.11 g	1%	1.49 MJ
	PC	1005.16 g	16%	29.15 MJ
	PET	0.12 g	<0.5%	
	POM	119.08 g	2%	2.02 MJ
	PVC	0.85 g	<0.5%	0.02 MJ
	Silicone	0.4 g	<0.5%	0.01 MJ
	Other plastic materials	57.48 g	1%	1.72 MJ
Electronics	Electronics	421.79 g	7%	8.44 MJ
Metal	Aluminium	2629.46 g	42%	
	Brass	75.86 g	1%	
	Steel	1769.9 g	29%	
Others	Cardboard	59.8 g	1%	
Total		6193.28 g		42.86 MJ

* without packaging materials

Fire load calculation according to the formula:

$$\text{Fire load [MJ]} = \text{weight [kg]} \times \text{energy value [MJ/kg]}$$

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) 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 [kgCO₂e]	A1: Material extraction (components that are replaced in B3)	2.77 kgCO ₂ e
	A1: Material extraction (original product)	27.73 kgCO ₂ e
	A1–A4, B3, C2–C4: Total embodied carbon with scale-up and buffer factors	55.51 kgCO₂e

Basic embodied carbon calculation

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.