Building product declaration

according to BPD associations' standardised format eBVD

2023-03-06 07:02:17

Variable Circular Air Volume damper KOS-C

1. COMPANY INFORMATION

SIA Komfovent

Company name:	Organisation number:
SIA Komfovent	40103817958
Address:	Contact person:
1, Bukaisu street	Natalija Lemesenoka
E-mail:	Telephone:
info.lv@komfovent.com	+371 24664433
VAT number:	Website:
LV40103817958	www.komfovent.com
GLN:	DUNS:

Company was last saved

2023-02-02 07:22:46

Company's certification

☐ ISO 9001 ☐ ISO 14001

Other:

Policies and guidelines

☐ The company has a code of conduct/policy/guidelines for dealing with social responsibility in the supplier chain, including produces for ensuring the requirements

☐ This is third-party audited

If yes, which if the following guidelines have you affiliated to or management system you have implemented

☐ UN guiding principles for companies and human rights

☐ ILO's eight core conventions

☐ OECD Guidelines for Multinational Enterprises

☐ UN Global Compact

☐ ISO 26000

Other policy guidelines

Management system

If you have a management system for corporate social responsibility, what out of the following is included in the work?

- [ ] Mapping
- [ ] Risk analysis
- [ ] Action plan
- [ ] Monitoring

Sustainability reporting guidelines:

2. ARTICLE INFORMATION

Document data

Id:

A-475104-01317-5-2

Version:

3

Created:

2023-02-28 09:51:58

Last saved:

2023-03-06 07:02:17

Changes relates to:

Correction of the Chemical Content

Variable Circular Air Volume damper KOS-C

Article name:

Variable Circular Air Volume damper KOS-C

Article No/ID concept

Article identity: GTIN

4751040131754, 4751040131761, 4751040131778, 4751040131785

Product group/Product group classification

Product group system	Product group id
BK04	21001
BSAB96	QJ
BSAB96	QJJ

Article description:

KOS-C and KOS-C-I are variable air volume (VAV) dampers for airflow control. KOS-C damper consists of casing, blade, Volumetric Flow Controller, connection air pipes and Pitot tubes. KOS-C-I damper model additionally has mineral wool insulation.
KOS-C-U and KOS-C-U-I are variable air volume (VAV) dampers for airflow control, airflow measurement, duct or room pressure control. KOS-C-U damper consists of casing and variably of actuator, blade, connection air pipes, Controller with manometer and Pitot tubes. KOS-C-U-I damper model additionally has mineral wool insulation.

Declarations of performance:

Not applicable

Declaration of performance number:

Other information:

References

Reference
KOS damper Technical Brochure 2020; Variable Air Volume Dampers Leaflet 2022; Installation Instructions for Variable Air Volume dampers; VDI6022 Hygiene Assessment No. W-343949-21-Zd.

Annexes

Annex
https://www.komfovent.com/en/downloads/KOS-C_hygiene%20certificate_EN.pdf

3. CHEMICAL CONTENT

Chemical content

Does the declaration apply to a product or chemical product?

product

Enter chemical content for the whole article. The concentration is calculated at component level according to the principle of “once an article always an article”.

Is there a safety data sheet for the article?

Not applicable

Is there classification of the article?

Not applicable

If yes, indicate the classification of the product under Regulation (EC) No

Enter which version of the candidate list has been used (Year, month, day)

2023-01-16

The article is covered by the RoHS Directive:

Yes

Enter the weight of the article:

6.27 kg

Enter how large a proportion of the material content has been declared [%]:

100

If 100% material content is not declared, please state the reason

If the article contains nanomaterials deliberately added to obtain a particular function, enter these here:

The product does not contain deliberately added nanomaterial

Has the presence of nanomaterials deliberately added to notifiable chemical products been reported to the Product Register

No

Enter the proportion of volatile organic substances [g/litre], applies only to sealants, paints, varnishes and adhesives:

Article and/or sub-components

Phase	Mounted		
Component	Axles	**Weight% of product**	<=3.67

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Zinc	<=0.1	7440-66-6	☐	☐
Steel 1.1141		<=99.9		☐	☐

Component	Blade/nipple sealing material	Weight% of product	<=8.97

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	EPDM Rubber	=100	25038-36-2	☐	☐

Component	Casing, blade and brackets	Weight% of product	<=64.89

Comment

Component	Hoses	Weight% of product	<=2.99

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Polyurethane	=100	9009-54-5	☐	☐

Component	Insulation material	Weight% of product	<=4.15

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Binder	<10	25104-55-6	☐	☐
	Mineral oil	<1	8012-95-1	☐	☐
Glass fibre		>90		☐	☐

Component	Pitot tubes	Weight% of product	<=0.64

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Aluminum	=100	7429-90-5	☐	☐

Component	Plastic fittings	Weight% of product	<=0.43

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Acrylonitrile 1,3-Butadiene Styrene	<=99.26	9003-56-9	☐	☐
	Nylon 66	<=0.735	32131-17-2	☐	☐

Component	Screws and washers	Weight% of product	<=0.83

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Iron	=100	7439-89-6	☐	☐

Component VAV Controller Belimo LMV... **Weight% of product** <=7.98

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Carbon	=0.002	7440-44-0	☐	☐
	Chromium	=0.007	7440-47-3	☐	☐
	Copper	=0.07	7440-50-8	☐	☐
	Iron	=0	7439-89-6	☐	☐
	Lead	=0.1	7439-92-1	☑	☐
		Comment: Lead used as an alloying element to aluminum, steel or copper alloys.			
	Manganese	=0.005	7439-96-5	☐	☐
	Molybdenum	=0.001	7439-98-7	☐	☐
	Nickel	=0.001	7440-02-0	☐	☐
	Phosphor	=0.0004	7723-14-0	☐	☐
	Polyamid	=0.2	9008-66-6	☐	☐
	Polycarbonate	=0.42	24936-68-3	☐	☐
	Polyoxymethylene	=0.06	9002-81-7	☐	☐
	Polypropylene	=0	9003-07-0	☐	☐
	Polyurethane	=0.05	9009-54-5	☐	☐
	Silicone	=0.003	7440-21-3	☐	☐
	Sulfur	=0.0002	7704-34-9	☐	☐
	Tin	=0.04	7440-31-5	☐	☐
	Titanium	=0.001	7440-32-6	☐	☐
	Vanadium	=0.0002	7440-62-2	☐	☐
	Zinc	=0.07	7440-66-6	☐	☐
Electronic parts		=0.02		☐	☐
Epoxy FR4/Tg		=0.1		☐	☐
Glass fibre		=0.13		☐	☐

CAS	H-phrase	Exposure
7439-92-1	H360Fd - Repr. 1A	

Component VRU Controller **Weight% of product** <=5.43

Comment VRU-D3 / VRU-M1 / VRU-M1R

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	ABS	=4.21	9003-56-9	☐	☐
	Copper	=6.99	7440-50-8	☐	☐
	Fiberglass	=11.99	65997-17-3	☐	☐

	Lead	=0.1	7439-92-1	☑	☐
		Comment: Lead used as an alloying element to aluminum, steel or copper alloys			
	Polyamide	=1.39	63428-84-2	☐	☐
	Polycarbonate, PC, Poly [oxycarbonyloxy-1,4-phenylene (1-methylethylidene) -1,4-phenylene]	=59.91	25971-63-5	☐	☐
	Polyoxymethylene	=1.09	66455-31-0	☐	☐
	Polypropylene	=1.2	9003-07-0	☐	☐

CAS	H-phrase	Exposure
7439-92-1	H360Fd - Repr. 1A	

Other information:

Belimo LMV... Controller:
https://www.belimo.com/de/shop/en_GB/Actuators/Variable-Air-Volume/LMV-D3-MP/p?code=LMV-D3-MP
https://www.belimo.com/de/shop/en_GB/Actuators/Variable-Air-Volume/LMV-D3-KNX/p?code=LMV-D3-KNX
https://www.belimo.com/de/shop/en_GB/Actuators/Variable-Air-Volume/LMV-D3-MOD/p?code=LMV-D3-MOD

Belimo LM actuator:
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_LM24A-VST_datasheet_en-gb.pdf
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_LMQ24A-VST_datasheet_en-gb.pdf

Belimo NM actuator:
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_NM24A-VST_datasheet_en-gb.pdf
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_NMQ24A-VST_datasheet_en-gb.pdf

Belimo SM actuator:
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_SM24A-VST_datasheet_en-gb.pdf

Belimo NK actuator:
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_NKQ24A-VST_datasheet_en-gb.pdf

Belimo LF actuator:
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_LF24-VST_datasheet_en-gb.pdf

Belimo NF actuator:
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_NF24A-VST_datasheet_en-gb.pdf

Belimo SF actuator:
https://www.belimo.com/mam/general-documents/datasheets/en-gb/belimo_SF24A-VST_datasheet_en-gb.pdf

Belimo VRU-D3-BAC Controller:
https://www.belimo.com/se/shop/en_GB/Actuators/Variable-Air-Volume/VRU-D3-BAC/p?code=VRU-D3-BAC

Belimo VRU-M1R-BAC Controller:
https://www.belimo.com/se/shop/en_GB/Actuators/Variable-Air-Volume/VRU-M1R-BAC/p?code=VRU-M1R-BAC

Belimo VRU-M1-BAC Controller:
https://www.belimo.com/se/shop/en_GB/Actuators/Variable-Air-Volume/VRU-M1-BAC/p?code=VRU-M1-BAC

4. RAW MATERIALS

Is there supporting documentation for the raw materials for third-party certified system for control of origin, raw material extraction, manufacturing or recycling processes or similar (for example BES 6001:2008, EMS certificate, USGBC Program)? If yes, enter system(s):

Raw materials

Component	Material	Transport type
Casing, blade and brackets	Zn coated sheet steel	ship

Country of raw material extraction

City of raw material extraction

Country of manufacture/production

City of manufacture/production

Comment

Around 95% of materials come from this source.

Component	Material	Transport type
Casing, blade and brackets	Zn coated sheet steel	truck

Country of raw material extraction

City of raw material extraction

Country of manufacture/production

City of manufacture/production

Comment

Total recycled material in the article

☑ Is recycled material included in the article?

Material

Aluminum

Share of waste (from own production)

61

Share of waste (from other people's production)

0

Recycled material (treated)

39

Recycled material

100

Weight/percent by weight

58 %

Comment

Material

Steel

Share of waste (from own production)

0

Share of waste (from other people's production)

5

Recycled material (treated)

100

Recycled material

20

Weight/percent by weight

20 %

Comment

Renewable material

Enter proportion of renewable material in the article

☐ Included biobased raw material is tested according to ASTM test method D6866:

Origin of raw material

For this product, there has been no withdrawal of virgin fossil material

No

If yes, please indicate what percentage of the material in question (or item?)

Wood raw materials

☐ Wood raw materials are included

☐ Included wood raw material is certified

How large a proportion is certified [%]?

What certification system has been used (for example FSC, CSA, SFI with CoC, PEFC)?

Reference number:

Enter logging country for the wood raw material and that following criteria have been met. Country of logging:

☐ Does not contain type of wood or origin in CITES appendix of endangered species

Which version of CITES has been used for the check?

☐ The timber has been logged legally and there is certification for this

5. ENVIRONMENTAL IMPACT

Environmental impact during life cycle of the article, production phase module A1-A3 under EN

☐ Has environmental product declaration been drawn up according to EN 15804 or ISO 14025 for the article?

These product-specific rules, known as PCR, have been applied:

Registration number / ID number for EPD:

If there is environmental product declaration or other life cycle assessment, describe how the environmental impact of the article is taken into account from a life cycle perspective:

6. DISTRIBUTION

Distribution of finished article

Does the supplier apply any system with multiple-use packaging for the article?

Not applicable

Does the supplier take back packaging for the article?

Not applicable

Is the supplier affiliated to a system for product responsibility for packaging?

Not applicable

If yes, which packaging and which system?

Can packaging/packaging be reused?

Not applicable

Can packaging/packaging be recycled?

Not applicable

Can packaging/packaging be energy recycled?

Not applicable

Does the supplier use Retursystem Byggpall?

Yes

Other information:

7. CONSTRUCTION PHASE

Construction phase

Does the article make special requirements in storage?

Yes

Specify

KOS dampers should be stored indoors in a ventilated area under normal conditions. Recommended storage temperature range is 5 - 35°C. Dampers must be protected from direct atmospheric exposure, direct sunlight, rainfall or wind.
During storage and transportation, the VAV controller must be protected from loading. It is recommended to keep the original boxes and / or protective caps or lids to avoid damper measuring tubes contamination with dust and sweepings.

Does the article make special requirements for surrounding building products?

No

Specify

Other information:

8. USE PHASE

Use phase

Does the article make requirements for input materials for operation and maintenance?

No

Specify:

Does the article require supply of energy during operation?

Yes

Specify:

For KOS damper connection, the matching supply voltage should be energized to the electrical components. Estimated power consumption is 2-4 W.

Estimated technical service life for the article:

25 years

Comment:

Is there energy labelling under the Energy Labelling Directive (2010/30/EU) for the article?

Not applicable

If yes, enter labelling (G to A, A+, A++, A+++):

If yes, enter marking (G to A)

Other information:

9. DEMOLITION

Demolition

Is the article prepared for disassembly (dismantling)?

Yes

Can the product be separated into pure material types for recycling?

Yes

Specify:

The product can be disassembled on component parts.

Does the article require special measures for protection of health and environment in demolition/disassembly?

No

Specify:

Other information:

10. WASTE MANAGEMENT

Delivered article

Is the supplied article covered by the Ordinance (2014:1075) on producer responsibility for electrical and electronic products when it becomes waste?

No

Is reuse possible for the whole or parts of the article when it becomes waste?

Yes

Specify:

The total product can be reused

Is material recovery possible for the whole or parts of the article when it becomes waste?

Not applicable

Specify:

~95% of the material can be recycled

Is energy recovery possible for the whole or parts of the article when it becomes waste?

Yes

Specify:

Heat recovery possible during smelting process

Does the supplier have restrictions and recommendation for re-use, material or energy recovery or landfilling?

Yes

Specify:

Recycling process should be performed according to recommended waste disposal code

Waste code for the delivered article when it becomes waste
170203 - 03 Plast.
170402 - 02 Aluminium.
170405 - 05 Järn och stål.

When the supplied article becomes waste, is it classified as hazardous waste?

No

Mounted article

Is the mounted article classified as hazardous waste?

No

Other information

11. INDOOR ENVIRONMENT

Indoor environment

- [ ] The article is not intended for indoor use
- [x] The article does not emit any substances
- [ ] Emissions from the article not measured

Does the article have a critical moisture state?

No

If yes, state what:

Noise

Can the article give rise to own noise?

Not applicable

Value:

Unit:

Measuring method:

Electrical field

Can the article give rise to electrical fields?

Not applicable

Value:

Unit:

Measuring method:

Magnetic fields

Can the article give rise to magnetic fields?

Not applicable

Value:

Unit:

Measuring method:

Paints and varnishes

- [ ] The article is resistant to fungi and algae in use in wet areas

Emissions

The article produces the following emissions in intended use:

Other information

The product mainly consists of pure steel that do not give off any emissions during normal use.
For electric actuators and controllers, please refer to www.belimo.com.