

BUILDING PRODUCT DECLARATION BPD 3

in compliance with the guidelines of the Ecocycle Council, June 2007

1 Basic data

Product identification		Document
Product name Flex-Geko	Product no/ID designation Fan Coil Units Flex-Geko:	Product group Fan-coils
<input checked="" type="checkbox"/> New declaration <input type="checkbox"/> Revised declaration	In the case of a revised declaration	
	Has the product been changed?	The change relates to
	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Changed product can be identified by
Drawn up/revised on (date) 09/2018		Inspected without revision on (date)
<p>Other information:</p> <p>Flex-Geko are air-conditioning units, size 1 to 8 with MATRIX 500, 2000, 3000, 4000 regulation and CMS, CMT, CET controls, type designation GFX.XXXX.XXXXX including electro/water/casing/air accessories, type designation DX.XXX.XX / VGF.XXXXXXX.XX / ZGF.XXXXX. Flex-Geko are chilled water/hot water fan-coils for offices, residential applications and general civil use.</p> <p>Units are equipped with one water coil (2-pipes pattern) or two water coils (4-pipes pattern) for the purpose of full recirculated air conditioning. Air is mechanically blown towards occupied space by the mean of a centrifugal fan. Unit is enclosed into a metal casing which is normally exposed and laid on floor against perimetral walls. Fan is provided with a 3 or 5 steps velocity motor which modifies fan speed and flowrate according to the actual space needs. Motor can be controlled by a BMS or a direct control loop in response to temperature signal emitted by space thermostat.</p>		

2 Supplier information

Company name Fläktgroup		Company reg. no/DUNS no : 366931699	
Address Fläktgroup Czech Republic a.s. Slovanská 781, 463 12 Liberec XXV Czech Rep.		Contact person Marcel Grumann	
		Telephone +49 2325 468 312	
Website: www.dencohappel.com		E-mail Marcel.Grumann@flakgroup.com	
Does the company have an environmental management system?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
The company possesses certification in compliance with	<input checked="" type="checkbox"/> ISO 9000 <input checked="" type="checkbox"/> ISO 14000	<input checked="" type="checkbox"/> Other	If "other", please specify: AQAP 2110
Other information:			

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.

3 Product information

Country of final manufacture	Czech Rep.	If country cannot be stated, please state why			
Area of use					
Air conditioning of offices, residential and general civil use					
Is there a Safety Data Sheet for this product?			<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
In accordance with the regulations of the Swedish Chemicals Agency, please state:		Classification Labelling		<input checked="" type="checkbox"/> Not relevant	
Is the product registered in BASTA?				<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Has the product been eco-labelled?	<input checked="" type="checkbox"/> Criteria not found	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:	
Is there a Type III environmental declaration for the product?				<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other information: In relation to Safety Data Sheet, please see the enclosed Installation and Use and Maintenance Manual					
Fan-coils are Compliant to applicable UE Directives (see References)					

4 Contents

At the time of delivery, the product comprises the following parts/components, with the chemical composition stated:					
Constituent materials/components	Constituent substances	Weight %	EC no/CAS number (or alloy)	Classification	Comment
CASING	ABS	4%	9003-56-9		
	Carbon Steel	<1%	68467-81-2		
	Galvanized Steel	28%	UNI EN 10327-DX51D		
	Plastic PVC coated Steel	20%	UNI EN 10346-DX51D		
	Polyamide PA6 GF15	<1%	63428-83-1		
	Polypropilene	<1%	9003-07-0		
	Polycarbonate	<1%	9002-88-4		
	Polythene Foam Closed Cells	<1%	9009-54-5		
	Polycarbonate+ABS	<1%	9002-88-4		
COILS	Galvanized Steel	2%	UNI EN 10327 DX51D		
	Aluminum	4%	7429-90-5		
	Copper	5%	7440-50-8		
	Nylon	<1%	32131-17-2		
	Stainless Steel	2%	65997-19-5 AISI 430		
ELECTRICAL ELEMENTS	Polyamide PA6 GF15	<1%	63428-83-1		
	Polyamide PA66	<1%	63428-83-1		
FAN & MOTOR	Aluminum	6%	7429-90-5		
	Carbon Steel	8%	68467-81-2		
	Copper	6%	7440-50-8		
	Plastic	5%	9003-07-0		
FILTER	Galvanized Steel	1%	UNI EN 10327 DX51D		
	Polypropilene	1%	9003-07-0		

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SCREWS AND NUTS	Brass	<1%	86376-49-0		
	Galvanized Steel	<1%	68467-81-2		
TOT WEIGHT		17 – 62 kg			
Other information: All intermediate goods and raw materials suppliers are compliant to RoHS Directive					
If the chemical composition of the product after it is built in differs from that at the time of delivery, the content of the finished built in product should be given here. If the content is unchanged, no data need be given in the following table.					
Constituent materials/ components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classifi- cation	Comments
Other information:					

5 Production phase

Resource utilisation and environmental impact during production of the item is reported in one of the following ways:					
<input checked="" type="checkbox"/> 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the manufacturing unit , and the outflows (emissions and residual products) from it, i.e. from “gate-to-gate”.					
<input type="checkbox"/> 2) All inflows and outflows from the extraction of raw materials to finished products i.e. “cradle-to-gate”.					
<input type="checkbox"/> 3) Other limitation. State what:					
The report relates to unit of product		<input type="checkbox"/> Reported product	<input checked="" type="checkbox"/> The product’s product group	<input type="checkbox"/> The product’s production unit	
Indicate raw materials and intermediate goods used in the manufacture of the product				<input type="checkbox"/> Not relevant	
Raw material/intermediate goods		Quantity and unit		Comments	
Indicate recycled materials used in the manufacture of the product				<input type="checkbox"/> Not relevant	
Type of material		Quantity and unit		Comments	
Aluminum		26%		Weighted average between values declared by suppliers	
Steel		48%		Weighted average between values declared by suppliers	
Enter the energy used in the manufacture of the product or its component parts				<input type="checkbox"/> Not relevant	
Type of energy		Quantity and unit		Comments	
Electricity		4 to 5 kWh		Motorized Assembly	
Enter the transportation used in the manufacture of the product or its component parts				<input type="checkbox"/> Not relevant	
Type of transportation		Proportion %		Comments	
TRUCKS		100%			

Enter the emissions to air, water or soil from the manufacture of the product or its component parts				<input checked="" type="checkbox"/> Not relevant	
Type of emission		Quantity and unit		Comments	
Enter the residual products from the manufacture of the product or its component parts				<input type="checkbox"/> Not relevant	

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Residual product	Waste code	Quantity	Proportion recycled		Comments
			Material recycled %	Energy recycled %	
COPPER	17 04 01	0,06-0,1 kg	100%		Scraps
ALUMINUM	17 04 02	0,3-0,5 kg	100%		Scraps
Is there a description of the data accuracy for the manufacturing data?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:		
Other information: Metal scraps are sold to recycling companies. It is under recycling companies discretion whether material is re-melted only or even energy is recovered.					

6 Distribution of finished product

Does the supplier put into practice a system for returning load carriers for the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the supplier put into practice any systems involving multi-use packaging for the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the supplier take back packaging for the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the supplier affiliated to REPA?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Other information:			

7 Construction phase

Are there any special requirements for the product during storage?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Indoor storage, room temperature, protect against humidity. Leave product into original package until it is going to be installed
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Other information:				

8 Usage phase

Does the product involve any special requirements for intermediate goods regarding operation and maintenance?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: See Installation and User Manual
Does the product have any special energy supply requirements for operation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: HW/CW and electricity
Estimated technical service life for the product is to be entered according to one of the following options, a) or b):			
a) Reference service life estimated as being approx.	<input type="checkbox"/> 5 years	<input checked="" type="checkbox"/> 10 years	<input type="checkbox"/> 15 years
			<input type="checkbox"/> 25 years
			<input type="checkbox"/> >50 years
b) Reference service life estimated to be in the interval of 8 years.			Comments: See "Other information"
Other information: Low voltage electric input for single-phase electric motor			
Life duration is based on experience under reference conditions such as allowable operative maximum fluid temperature/pressure and ambient conditions specified into Installation and User Manual			

9 Demolition

Is the product ready for disassembly (taking apart)?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Product can be easily disassembled into major components
Does the product require any special measures to protect health and environment during demolition/disassembly?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:
Other information:				

10 Waste management

Is it possible to re-use all or parts of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Unit can be dismantled and re-used elsewhere.
Is it possible to recycle materials for all or parts of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Steel, Aluminum, Plastics, Copper
Is it possible to recycle energy for all or parts of the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:
Does the supplier have any restrictions and recommendations for re-use, materials or energy recycling or waste disposal?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:
Enter the waste code for the supplied product : Mixed Waste (non-hazardous) 20 03 01				
Whatever disassembled: Water heater elements 17 04 01 - 17 04 05 Mechanical Parts 16 01 17 Plastic 20 01 39 Electric Motors 16 01 22				
Is the supplied product classed as hazardous waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
If the chemical composition of the product differs after having been built in from that which it had at the time of delivery, meaning that another waste code is given to the finished built in product, then this should be entered here. If it is unchanged, the following details can be omitted.				
Enter the waste code for the built in product				
Is the built in product classed as hazardous waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		

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Other information:

11 Indoor environment (To add a new green row, select and copy an entire empty row and paste it in)

When used as intended, the product gives off the following emissions:		<input checked="" type="checkbox"/> The product does not have any emissions		
Type of emission	Quantity [$\mu\text{g}/\text{m}^2\text{h}$] or [$\text{mg}/\text{m}^3\text{h}$]		Method of measurement	Comments
	4 weeks	26 weeks		
Can the product itself give rise to any noise?		<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Value Lp Range: 53(max speed,max size) 21(min speed, min size)	Unit dB (A)	Method of measurement: Reverberation acoustic chamber		
Can the product give rise to electrical fields?		<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Value	Unit	Method of measurement EMC Compliant		
Can the product give rise to magnetic fields?		<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Value	Unit	Method of measurement EMC Compliant		
Other information:				

References

Declared Compliances: EN ISO 14120:2016, EN 1037+A1:2009, EN ISO 13732-1:2009, EN ISO 13857:2008, EN ISO 12100:2011, EN 307:1999, ISO 5149:1998, EN 60335-1 ed.2:2003, EN 60335-2-30 ed.2:2004, EN 60335-2-40 ed.2:2004, EN 55014-1, EN61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3, EN 55014-2, Directives: 2006/42/EC, 2009/125/EC, 2011/65/EU, 2014/35/EU, 2014/30/EU

Appendices

See instruction for installation, use and maintenance