

## BUILDING PRODUCT DECLARATION BPD 3

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

### 1 Basic data

<b>Product identification</b>		Document
Product name HyCassette, Cassette-Geko	Product no/ID designation Fan Coil Units Geko	Product group <b>Fan-coils</b>
<input checked="" type="checkbox"/> New declaration <input type="checkbox"/> Revised declaration	<b>In the case of a revised declaration</b>	
	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><b>HyCassette//Cassette-Geko are air-conditioning units type designation GC ##.###.### including accessories serve for the heating, ventilation, cooling and filtering of indoor air. Two options of control: with control MATRIX 2000, 3000, 4000 and controlers CMS, CMT, CET. Or with control ISYteq (Modul 3010, Modul 3020) and controlers CET.ACEC, CMT, ISYteq LCD or ISYteq Touch. Cassette-Geko are chilled water/hot water fan-coils for offices, residential applications and general civil use.</b></p> <p><b>Units are equipped with one water coil (2-pipes pattern or 4-pipes pattern) for the purpose of full recirculated air conditioning. Air is mechanically blown towards occupied space by the mean of a radial fan. 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.</b></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.flaktgroup.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:			

### 3 Product information

Country of final manufacture	Czech Rep.	If country cannot be stated, please state why			
Area of use					
<b>Air conditioning of offices, residential and general civil use</b>					
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: <b>In relation to Safety Data Sheet, please see the enclosed Installation and Use and Maintenance Manual</b>					
<b>Fan-coils are Compliant to applicable UE Directives (see References)</b>					

### 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
<b>CASING</b>	ASA	16%	24980-16-3		
	Galvanized Steel	28%	UNI EN 10327-DX51D		
	PS-Cassette	3%	52682-94-7		
	PP-Hycassette	4%	53801-30-2		
	Polythene Foam Closed Cells	<1%	9009-54-5		
<b>COILS</b>	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		
<b>ELECTRICAL ELEMENTS</b>	Polyamide PA6 GF15	<1%	63428-83-1		
	Polyamide PA66	<1%	63428-83-1		
<b>FAN &amp; MOTOR</b>	Aluminum	6%	7429-90-5		
	Carbon Steel	8%	68467-81-2		
	Copper	6%	7440-50-8		
	Polyamide PA6	8%	9003-07-0		
<b>FILTER</b>	Galvanized Steel	1%	UNI EN 10327 DX51D		
	Polypropilene	1%	9003-07-0		

<b>SCREWS AND NUTS</b>	Brass	<1%	86376-49-0		
	Galvanized Steel	<1%	68467-81-2		
<b>TOT WEIGHT</b>		<b>27 – 54 kg</b>			

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

Other information: <b>All intermediate goods and raw materials suppliers are compliant to RoHS Directive</b>					
If the chemical composition of the product after it is built in differs from that at the time of delivery, the content of the <b>finished built in product</b> 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)	Classification	Comments
Other information:					

## 5 Production phase

<b>Resource utilisation and environmental impact during production of the item is reported in one of the following ways:</b>			
<input checked="" type="checkbox"/> 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the <b>manufacturing unit</b> , 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 <b>raw materials and intermediate goods</b> used in the manufacture of the product			<input type="checkbox"/> Not relevant
Raw material/intermediate goods	Quantity and unit		Comments
Indicate <b>recycled materials</b> used in the manufacture of the product			<input type="checkbox"/> Not relevant
Type of material	Quantity and unit		Comments
<b>Aluminum</b>	<b>26%</b>		<b>Weighted average between values declared by suppliers</b>
<b>Steel</b>	<b>48%</b>		<b>Weighted average between values declared by suppliers</b>
Enter the <b>energy</b> used in the manufacture of the product or its component parts			<input type="checkbox"/> Not relevant
Type of energy	Quantity and unit		Comments
<b>Electricity</b>	<b>4 to 5 kWh</b>		<b>Motorized Assembly</b>
Enter the <b>transportation</b> used in the manufacture of the product or its component parts			<input type="checkbox"/> Not relevant
Type of transportation	Proportion %		Comments
<b>TRUCKS</b>	<b>100%</b>		

Enter the <b>emissions to air, water or soil</b> 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 <b>residual products</b> from the manufacture of the product or its component parts					<input type="checkbox"/> Not relevant
Residual product	Waste code	Quantity	Proportion recycled		Comments
			Material recycled %	Energy recycled %	
<b>COPPER</b>	<b>17 04 01</b>	<b>0,06-0,1 kg</b>	<b>100%</b>		<b>Scraps</b>
<b>ALUMINUM</b>	<b>17 04 02</b>	<b>0,3-0,5 kg</b>	<b>100%</b>		<b>Scraps</b>

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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: <b>Metal scraps are sold to recycling companies. It is under recycling companies discretion whether material is re-melted only or even energy is recovered.</b>			

## 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: <b>Indoor storage, room temperature, protect against humidity. Leave product into original package until it is going to be installed</b>
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: <b>See Installation and User Manual</b>
Does the product have any special energy supply requirements for operation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: <b>HW/CW and electricity</b>
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: <b>See "Other information"</b>
Other information: <b>Low voltage electric input for single-phase electric motor</b>			
<b>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</b>			

## 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: <b>Product can be easily disassembled into major components</b>
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: <b>Unit can be dismantled and re-used elsewhere.</b>
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: <b>Steel, Aluminum, Plastics, Copper</b>
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 <b>supplied</b> product : <b>Mixed Waste (non-hazardous) 20 03 01</b>				
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 <b>supplied</b> 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 <b>built in</b> product, then this should be entered here. If it is unchanged, the following details can be omitted.				
Enter the waste code for the <b>built in</b> product				
Is the <b>built in</b> 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 <b>Lp Range:</b> <b>54(max speed)</b> <b>19(min speed)</b>	Unit <b>dB (A)</b>	Method of measurement: <b>Reverberation acoustic chamber</b>		
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 <b>EMC Compliant</b>		
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 <b>EMC Compliant</b>		
Other information:				

**References**

Declared Compliances: EN ISO 12100:2010, EN ISO 11202:2010, EN ISO 14120:2015, EN ISO 3746:2010, EN 61000-6-2:2005, EN 60335-1:2012, EN 62233:2008, EN 60335-2-40:2003, EN 60335-2-30:2009.

Directives: 2006/42/EC, 2009/125/EC, 2011/65/EU, 2014/35/EU, 2014/30/EU

**Appendices**

See instruction for installation, use and maintenance

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