

BUILDING PRODUCT DECLARATION BPD 3

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

1 Basic data

Product identification		Document ID TC-11006.04
Product name XPS, DXP120, X3-D, VX3-D, VXX3-D	Product no/ID designation	Product group Drycoolers
<input type="checkbox"/> New declaration <input checked="" type="checkbox"/> Revised declaration	In the case of a revised declaration	
	Has the product been changed?	The change relates to supplemented with brine information
	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Changed product can be identified by
Drawn up/revised on (date) 2011-09-12 / 2015-06-29		Inspected without revision on (date)
Other information:		

2 Supplier information

Company name LU-VE Sweden AB		Company reg. no/DUNS no 5568691322	
Address S.Industrivägen 2-4 374 50 ASARUM, SWEDEN		Contact person Tord Engberg	
Website: www.aia.se		Telephone 0454-33434	
Does the company have an environmental management system?		E-mail tord.engberg@luvegroup.com	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
The company possesses certification in compliance with	<input checked="" type="checkbox"/> ISO 9000 <input type="checkbox"/> ISO 14000	<input type="checkbox"/> Other	If "other", please specify:
Other information: The company holds an established environmental policy			

3 Product information

Country of final manufacture	Sweden	If country cannot be stated, please state why		
Area of use	Airconditioning, commercial and process cooling			
Is there a Safety Data Sheet for this product?	<input checked="" type="checkbox"/> Not relevant		<input 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 type="checkbox"/> Criteria not found <input type="checkbox"/> Yes <input checked="" 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:				

4 Contents (To add a new green row, select and copy an entire empty row and paste it in)

At the time of delivery, the product comprises the following parts/components, with the chemical composition stated:					
Constituent materials/ components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classification	Comments
Aluminium		35-55%	CAS 7429-90-5		
Copper		20-33%	CAS 7440-50-8		
Galvanized steel	Fe and Zn/Al	10-25%	SS EN 10327		

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

			AZ 185		
Stainless steel	Iron, carbon, silicon, manganese, phosphorus, sulfur, nitrogen, chromium, and nickel	<0,2%	SS EN 1.4301		Fasteners: screws, washers, pop nuts. Homogeneous material emits no harmful substances under normal use
Powder coating	Polyester, epoxy, pigments	<0,3%			
Electronics		0,2-0,6%			
Halogen free cabling	Cu with cover in PVC	<0,5%	CAS 7440-50-8 CAS 9002-45-0		
Safety switches	Polycarbonate	<0,2%	CAS 25037-45-0		
Other information:					
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)	Classification	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 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	
See item 4			
Indicate recycled materials used in the manufacture of the product			<input checked="" type="checkbox"/> Not relevant
Type of material	Quantity and unit	Comments	
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	
Electrical power	55%		
District heating	45%		
Enter the transportation used in the manufacture of the product or its component parts			<input type="checkbox"/> Not relevant
Type of transportation	Proportion %	Comments	
Truck	> 99%		

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Other	< 1%			
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 checked="" type="checkbox"/> Not relevant	
Residual product	Waste code	Quantity	Proportion recycled	Comments
			Material recycled %	
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:				

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 type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the supplier affiliated to REPA?	<input type="checkbox"/> Not relevant	<input checked="" 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: Always store the product in dry space Make sure the liquid inside the pipe system cannot freeze. Use anti-freeze agent or any other appropriate method to prevent freezing
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: Related fluid media according to datasheet from AIACalc. See also Other information below.			
Does the product have any special energy supply requirements for operation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Electrical power			
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 type="checkbox"/> 10 years	<input type="checkbox"/> 15 years	<input checked="" type="checkbox"/> 25 years	<input type="checkbox"/> >50 years	Comments If necessary change of fan motor as sparepart
b) Reference service life estimated to be in the interval of	years					
Other information: XPS,DXP120, X3-D, VX3-D, VXX3-D typical brines used are water/antifreeze mixtures of ethylenglycol, propylenglycol. Mixtures of antifreeze fluids between 25 - 40 %						

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9 Demolition

Is the product ready for disassembly (taking apart)?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Does the product require any special measures to protect health and environment during demolition/disassembly?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" 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: Fan motors
Is it possible to recycle materials for all or parts of the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Metal-recycling
Is it possible to recycle energy for all or parts of the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Enter the waste code for the supplied product 20 01 36				
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
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 type="checkbox"/> Yes	<input type="checkbox"/> No
Value 18 - 74	Unit dB(A)	Method of measurement EN 13487, distance at 10 meter		
Can the product give rise to electrical fields?		<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Value	Unit	Method of measurement		
Can the product give rise to magnetic fields?		<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Value	Unit	Method of measurement		
Other information:				

References

See www.aia.se for the current datasheet and user manual

Appendices

Producer Certificate of subject content and levels