

PRODUCT ENVIRONMENTAL DECLARATION

VVS type Sweden

GENERAL PRODUCT INFORMATION:

Product name	Circulator Pump	Designation	UPS 32-30, UPS 100-30 m fl,
		(item/version/model)	UPE32-120, UPE100-60 m fl
Product:	Large	RSK-number	
	UP, UPS serie 200, UPE serie 2000		

Internal designation

THIS PRODUCT DECLARATION HAS BEEN COMPLETED BY :

Designation (item/version/model)

Issued by	Kim Klastrup	Issued by	Laurits Christensen
(company,organisation) :		(environmental manager)	
Company registration	No. 39009	Place and date	2001-03-23
number:			

COMPANY INFORMATION (MANUFACTURER/SELLER)

Manufacturer

company name, Grundfos A/S
address, Poul Due Jensensvej 7
DK-8850 Bjerringbro
telephone, +45 8668 1400
fax, +45 8668 0124
E-mail Grundfos@Grundfos.com

Contact person Nils Thorup

Supplier/seller (if not the same as former)

company name, Grundfos AB
address, Box 63
S-424 22 Angered
telephone, +46 (0)31-332 23 00
fax, +46 (0)31-331 94 54
E-mail lojohansson@grundfos.com

Contact person Lars-Olof Johansson

COMPANY INFORMATION (ABOUT THE MANUFACTURER)

Quality assurance system adopted	Yes
Quality assurance system based on	ISO 9000 certification
Environmental system adopted	Yes
The company participates in the ICC Business Charter for Sustainable Development	Yes
Environmental management system adopted	Yes
Environmental management system based on	ISO 14000 certification
The company applies life-cycle inventories/analyses LCI/LCA	Yes *

Other information on the company's environmental work (max 225 characters):

*All new products are assesst by the EDIP-metode (ISBN 0412 80800 5)

See also <http://www.grundfos.com/web/grfosweb.nsf/Viewtemplates/Management>

Company information (about the supplier/seller)

Quality assurance system adopted	No
Quality assurance system based on	
Environmental policy adopted	No
The company participates in the ICC Business Charter for Sustainable Development	No
Environmental management system adopted	No
Environmental system based on	
The company applies life-cycle inventories/analyses LCI/LCA	No

Other information on the company's environmental work (max 225 characters):

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Product information, area of application, LABELLING, etc.	
Recommended area of application shown in technical documentation	Yes
Recommended area of application if not shown in technical documentation:	
The product has a clear and durable labelling (manufacturer, product name, number etc.)	Yes
The labelling is referred to technical documentation so the product clearly can be identified	No

Chemicals			
Substance	CAS-number	% by weight	Comment
Not relevante			
Product information, product content of listed substances (swedish chemicals inspectorate's observation list and restricted substances list)			No
The product contains listed substances (acc. To Swedish Inspectorate's <i>Observation list</i> and/or <i>Restricted substances list</i> .)		No	
<i>List all such substances known to exist in the product > 0.2 % by weight: (amounts below this limit should also be listed if relevant to the outside environment)</i>			

Materials								
	UPS32-30 Cast iron	UPS32-30 Bronze	UPS100-30 Cast iron	UPS100-30 Bronze	UPE32-120 Cast iron	UPE32-120 Bronze	UPE100-60 Cast iron	UPE100-60 Bronze
	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]
Composite	760	760	770	770	780	780	890	890
Aluminium	1 350	1 350	2 100	2 100	1 365	1 365	5 200	5 200
sheet steel	3 740	3 740	8 430	8 430	4 950	4 950	8 430	8 430
Copper	1 075	1 075	1 975	1 975	1 375	1 375	2 710	2 710
Brass	31	1	31	31			1	1
Ceramic	43	43	136	136	60	60	127	127
stainless steel	2 715	2 715	1 950	1 950	1 100	1 100	5 050	5 050
Cast iron	9 500		35 000		7 700		35 000	
Bronze		11 500		42 500		9 700		42 500
Eletronic					1 430	1 430	1 500	1 500
Various - rubber - carbon	30	30	50	50	30	30	50	50

Use of resources	
Manufacturer requires environmental declaration or corresponding from suppliers	Yes
Manufacturer requires product information sheets according to ISO 110141 from suppliers concerned	Yes
Use of recovered material in product:	Yes

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Production		
Environmental accounts	Yes	see www.Grundfos.com
Facilities where product manufactured accredited in accordance with EMAS	Yes	
Environmental management system adopted for operations at facilities where product is manufactured	Yes	
Environmental management system based on	ISO 14000 certification	
Other information on environmental measures at facility:		
Information on use of energy, emissions to air, water and soil available	Yes	see www.Grundfos.com

Distribution of finished product		
Environmental logistics used in distribution	Yes	
Method used for environmental logistics:		
Packaging method used	Cardboard/ paper	
The company has re-usable packaging system	No	
The company recovers packaging from users	Not relevant	
The company participates in the Swedish register of producer responsibility REPA	Yes	

Construction phase		
Assembly and installation instructions available for product	Yes	
Instructions include requirements and recommendations concerning:		
- safeguards in conjunction with assembly	Yes	
- handling of product at workplace and conjunction	Yes	
- instructions for minimising waste		No
- information about conditions under which producer will take care of waste		No

User phase		
The product requires additional energy (electricity, fuel, etc.) for intended application	Yes	
The product requires chemical products in conjunction with intended operation (refrigerants, lubricant, etc.)		No
The product involves environmental harmful emissions to the air/water (outside environment) when used as intended		No
The product requires goods for normal maintenance (gaskets, filters, etc.)		No
The product requires chemical products for normal maintenance (cleaning agents, etc.)		No
Normal maintenance of the product involves environmentally harmful emissions to the air/water (outer environment).		No
It is possible to estimate the service life of the product in advance	Yes	
Documented industry standard concerning expected service life in different conditions available	Yes	No
Documented operation and maintenance instructions available for product	Yes	
Instruction include information on:		
How to maximise service life in conjunction with normal ware and intended use	Yes	No
Energy use, power requirements and water consumption during normal use	See technical data	

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Demolition

Provision has been made for environmental demolition (dismantling) Not relevant

Residuals

The product can be recycled	Yes
State how the goods and the packaging can be recycled	Through scrapdealer
Recovery of materials is possible	Yes
State how the materials in the goods can be recovered	Through scrapdealer
Energy recycling is possible	No
Energy recycling is recommended	No
Specify any risks concerning toxic emissions in conjunction with incineration	Not relevant
Describe management of residual products after combustion:	Not relevant

Waste products

Are there any parts of the product that cannot be recycled	Yes
If Yes, give general recommendations for handling such waste:	Disposal as electronic waste
The product or parts of the product may be classed as hazardous waste:	Yes
Risks for environmental harmful leaching or emission in conjunction with disposal on landfill	Yes
Restrictions and recommendations in conjunction with disposal on landfill:	

Indoor Environment

A declaration regarding the indoor environment is attached Not relevant