

PRODUCT ENVIRONMENTAL DECLARATION

VVS type Sweden

GENERAL PRODUCT INFORMATION:

Product name	Circulator pumps type UP	Designation (item/version/model)	UPS25-40, UPS40-80 F, UPS25-40B, UPS40-50FB, UP20-07N, UP20-45N UPE25-40, UPE 40-80F m fl
Product:	Small UP & UPS serie 100 UPE serie 2000	RSK-number	xx

Internal designation

THIS PRODUCT DECLARATION HAS BEEN COMPLETED BY :

Designation (item/version/model)

Issued by (company,organisation) :	Kim Klastrup	Issued by (environmental manager)	Laurits Christensen
Company registration number:	No. 39009	Place and date	2001-06-01

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								
	UPS25-40	UPS40-80F	UPS25-40B	UPS40-50FB	UP20-07N	UP20-45N	UPE25-40	UPE40-80F
	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]	Weight [gram]
Composite	106	123	106	123	106	123	106	123
Aluminium	179	365	179	365	299	497	179	365
sheet steel	510	1 577	510	1 577	643	1 577	510	1 577
Copper	303	579	303	534	318	556	303	579
Brass	25	24	25	24	25	24	25	24
Ceramic	30	37	30	37	30	37	30	37
stainless steel	202	230	202	230	594	641	202	230
EI-unit	25	25	25	25	25	25	180	760
Cast iron	930	5 400					930	5 400
Bronze			1 255	7 065				
Various - ceramics - rubber - composite - carbon	160	170	160	170	160	170	160	170
TOTAL	2.470	8.530	2.795	10.150	2.200	3.650	2.625	9.265

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