



# ENVIRONMENTAL DECLARATION

Date: 2001-11-05

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## General

Product: Passive chilled beam  
Type: ECEU-xx30, ECEU-xx45 and ECEU-xx60  
Manufacturer: Asarums Industri AB  
Contact: Cooling System AB  
Per Blomquist, Tel: +46 8 764 48 20, Fax: +46 8 764 67 07  
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## Manufacturing information

Quality management system in use	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
The system complies with:	Certification by ISO 9001 <input checked="" type="checkbox"/>	Other system <input type="checkbox"/>
Environmental policy ratified	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Company connected to the ICC Business Programme	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Company registered in EMAS	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Environmental management system in use	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
The system complies with:	Certification by ISO 14001 <input type="checkbox"/>	Other system <input type="checkbox"/>
Company makes use of Life Cycle Analysis (LCA)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Other information concerning internal quality work:		

## Product information

*Criteria for environmental labelling are not available for this type of business at the moment*

Recommended area of use is shown in the technical documentation	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
The products are clearly and indelibly marked: Manufacturer, product type, project number etc.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
The marking is clearly connected to the technical documentation for a correct identification of the product	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

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## Cooling System AB

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### 1.1 Material contained in % of the total weight (Product: Passive chilled beam ECEU-xx30)

Detail	Material	Weight	Suitable for re-use
<b>Metallic material</b>			
End plates	Al	8,5 %	100 %
Side plates, brackets	Fe	31,4 %	100 %
Fins	Al	40,1 %	100 %
Tubes	Cu	19,9 %	100 %
<b>Surface finishing</b>			
Coat of zinc	AlZn	0,1 %	100 %

Comments: The weight is calculated for a beam with a length of 3,0 m

### 1.2 Material contained in % of the total weight (Product: Passive chilled beam ECEU-xx45)

Detail	Material	Weight	Suitable for re-use
<b>Metallic material</b>			
End plates	Al	8,9 %	100 %
Side plates, brackets	Fe	24,3 %	100 %
Fins	Al	44,6 %	100 %
Tubes	Cu	22,1 %	100 %
<b>Surface finishing</b>			
Coat of zinc	AlZn	0,1 %	100 %

Comments: The weight is calculated for a beam with a length of 3,0 m

### 1.3 Material contained in % of the total weight (Product: Passive chilled beam ECEU-xx60)

Detail	Material	Weight	Suitable for re-use
<b>Metallic material</b>			
End plates	Al	9,2 %	100 %
Side plates, brackets	Fe	20,0 %	100 %
Fins	Al	47,3 %	100 %
Tubes	Cu	23,4 %	100 %
<b>Surface finishing</b>			
Coat of zinc	AlZn	0,1 %	100 %

Comments: The weight is calculated for a beam with a length of 3,0 m

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The manufacturer demands an environmental declaration or equivalent document from used suppliers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
The manufacturer demands product information according ISO 110141 from suppliers of chemicals	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
The product contains > 0,2 % by weight of any subject listed in the Swedish authorities registers concerning limited materials	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

## 2. Production

The production plant requires permission or registration according to Swedish environment protection laws	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
An annual report is sent to the Swedish authorities in accordance with the Swedish environment protection laws	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Company environmental report can be given on request	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Information concerning energy use and emissions to air, water and earth from the production plant can be given on request	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

## 3. Distribution of finished product

Place of manufacturing: Asarum, Sweden  
Method of transport: Usually by truck  
Packing material: Plastic and wood

The company is connected to REPA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
The company uses a re-useable packing system	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
The company accepts to take back the packing	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

## 4. Installation period

Documented instructions for the installation are available	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
The instructions contains demands and recommendations for:		
- Protection requirements for handling and installation	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
- Handling the product on site	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

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## 5. Operating period

- The product requires energy in normal use (electricity, fuel etc) Yes  No
- The product requires chemical in normal use (refrigerant,oil etc) Yes  No
- If "YES" : What type of chemical product is required?
- The product emits in normal use substances to the air, water or earth Yes  No
- Instructions for service and maintenance are documented and available Yes  No
- Estimated life length of the product provided that use, service and maintenance are carried out according the instructions: 25 years

## 6. Dismounting

The product are prepared for environmental friendly dismounting and scrapping

## 7. Remaining products

See table 1 "Material contained in % of the total weight

## 8. Waste products

See table 1 "Material contained in % of the total weight

## 9. Indoor environment

The product or any part of the product has no negative effect on the indoor environment  
By emissions, allergenic substances, noise or magnetic-and electrical fields

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