



ENVIRONMENTAL DECLARATION

Date: 2002-03-13

General

Product: Passive chilled beam
Type: ECBK-xx30-120, ECBK-xx45-120 and ECBK-xx60-120
ECBK-xx30-235, ECBK-xx45-235 and ECBK-xx60-235
Manufacturer: Asarums Industri AB
Contact: Cooling System AB
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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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1.1 Material contained in % of the total weight (Product: Passive chilled beam ECBK-xx30-120)

Detail	Material	Weight	Suitable for re-use
Metallic material			
End plates	Al	3,9 %	100 %
Side plates, brackets	Fe	60,5 %	100 %
Fins	Al	23,4 %	100 %
Tubes	Cu	11,9 %	100 %
Surface finishing			
Painting	Polyester	0,2 %	100 %
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 ECBK-xx45-120)

Detail	Material	Weight	Suitable for re-use
Metallic material			
End plates	Al	4,3 %	100 %
Side plates, brackets	Fe	56,4 %	100 %
Fins	Al	25,9 %	100 %
Tubes	Cu	13,1 %	100 %
Surface finishing			
Painting	Polyester	0,2 %	100 %
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 ECBK-xx60-120)

Detail	Material	Weight	Suitable for re-use
Metallic material			
End plates	Al	4,5 %	100 %
Side plates, brackets	Fe	53,9 %	100 %
Fins	Al	27,5 %	100 %
Tubes	Cu	13,8 %	100 %
Surface finishing			
Painting	Polyester	0,2 %	100 %
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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1.4 Material contained in % of the total weight (Product: Passive chilled beam ECBK-xx30-235)

Detail	Material	Weight	Suitable for re-use
Metallic material			
End plates	Al	3,3 %	100 %
Side plates, brackets	Fe	67,1 %	100 %
Fins	Al	19,4 %	100 %
Tubes	Cu	9,9 %	100 %
Surface finishing			
Painting	Polyester	0,2 %	100 %
Coat of zinc	AlZn	0,1 %	100 %

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

1.5 Material contained in % of the total weight (Product: Passive chilled beam ECBK-xx45-235)

Detail	Material	Weight	Suitable for re-use
Metallic material			
End plates	Al	3,7 %	100 %
Side plates, brackets	Fe	62,2 %	100 %
Fins	Al	22,5 %	100 %
Tubes	Cu	11,3 %	100 %
Surface finishing			
Painting	Polyester	0,2 %	100 %
Coat of zinc	AlZn	0,1 %	100 %

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

1.6 Material contained in % of the total weight (Product: Passive chilled beam ECBK-xx60-235)

Detail	Material	Weight	Suitable for re-use
Metallic material			
End plates	Al	4,0 %	100 %
Side plates, brackets	Fe	59,2 %	100 %
Fins	Al	24,3 %	100 %
Tubes	Cu	12,2 %	100 %
Surface finishing			
Painting	Polyester	0,2 %	100 %
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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