

# Product Environmental Declaration



## **AXIOM Iconos R200**

Environmentally compatible, high performance,  
cost-efficient

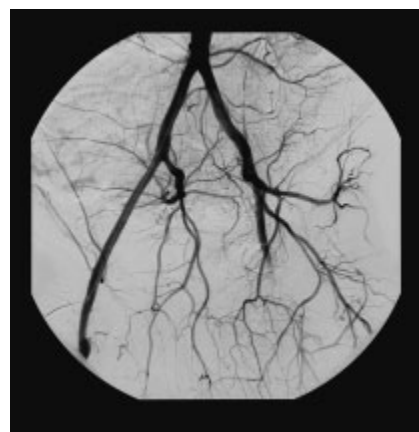
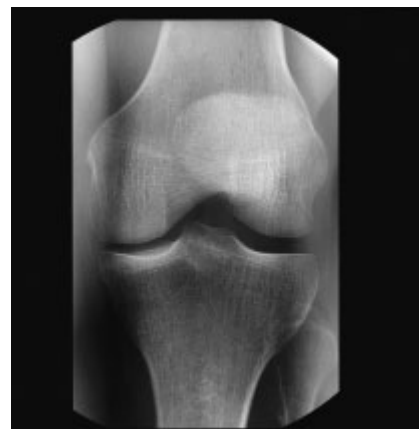


## High performance and environmental compatibility – AXIOM Iconos R200 combines both

AXIOM Iconos R200 is a remote-controlled overtable fluoroscopy system with digital fluoro-radiography for universal applications in the hospital and private practice. Intuitive operation coupled with modular system design results in optimal workflow in the fluoroscopy room. The AXIOM Iconos R200 has a wide range of applications, from general procedures such as routine X-ray examinations and fluoroscopy, to special examinations such as Digital Subtraction Angiography (DSA).

The AXIOM Iconos R200 is both a medical and an environmental achievement. The system was consistently designed to conserve resources – from the materials used, to the system's low energy consumption, to its high recycling rate when it comes time to dispose of your system. In the case of the AXIOM Iconos R200, fortunately, that day is a long way off.

AXIOM Iconos R200 – high performance, cost-efficient, and environmentally compatible.



## Our environmental mission statement

We use our knowledge and solutions to create a better world. We take our social responsibilities seriously and are committed to safeguarding the environment.

Our environmental management system helps us put this mission statement into practice. The manufacturing facilities of Siemens Medical Solutions in Germany have participated in EMAS (Eco Management and Audit Scheme) of the EU since 1996.



Since 1998, these same production facilities have been ISO-14001 certified to meet international environmental management standards.

We ensure the quality of our products through the focused application of our quality management program. All Medical Solutions business units in Germany are certified according to EN 46001, EN ISO 13485, and ISO 9001 quality management standards.





## Environmental protection begins in the mind of the developers

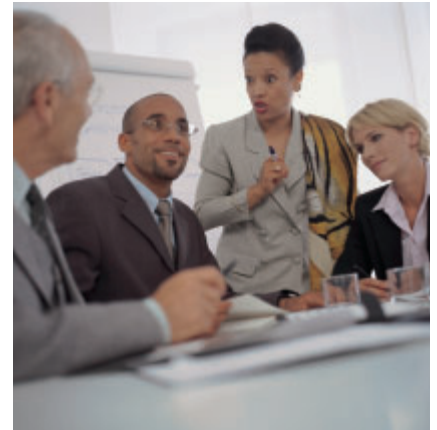
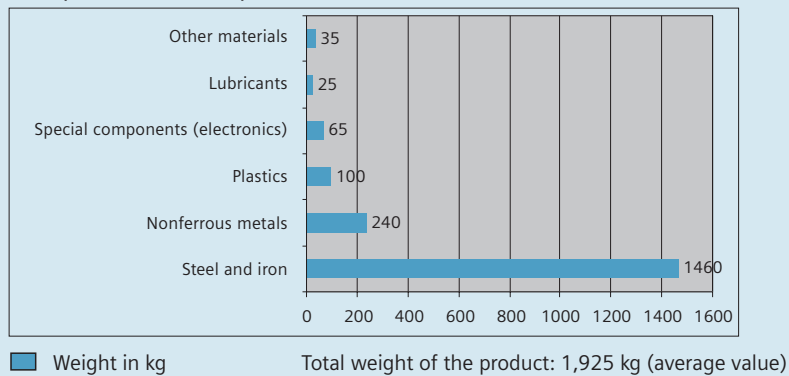
Even when the AXIOM Iconos R200 was still on the drawing board, the environment was a key consideration.

The materials used are safe for the environment and in large part recyclable.

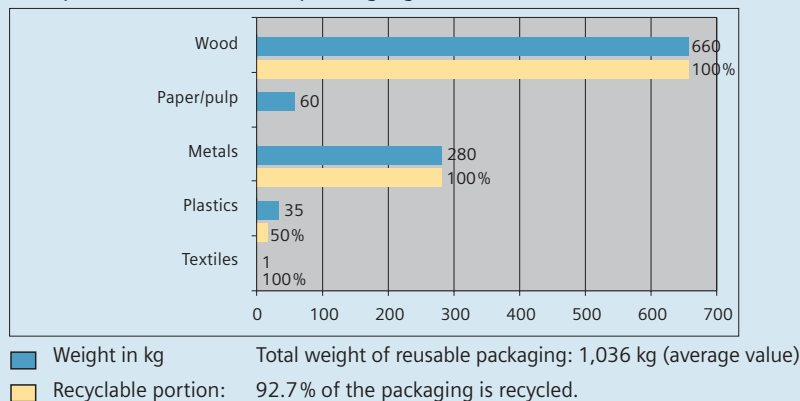
The developers' commitment to produce a leading product from an environmental standpoint is clear. In the AXIOM Iconos R200, the number of components was reduced by 70%, assembly time at the customer site fell by as much as 60%, and a reusable packaging concept was employed.

The AXIOM Iconos R200 is an environmentally compatible system, even before you switch it on and proceed with your first examination.

Composition of the product



Composition of reusable packaging material



## **Environmentally compatible product design**

We develop products using an internal standard that, in many ways, far exceeds the normative and legal requirements. This internal standard has been in place since 1993.

The objectives of environmentally compatible product design are to protect natural resources and minimize environmental impact through e.g., lower energy consumption during manufacturing and operation.

Every newly developed system is issued a materials declaration on its contents. Any harmful substances have been declared for all products since 1994.





## Conserving energy and dose – less is more

In systems that use X-rays, such as the AXIOM Iconos R200, every reduction in dose has a threefold benefit:

Patients, personnel, and the environment are protected.

A whole range of measures have reduced dose in our radiography systems by as much as 99%!

Image quality remains at the same high level.

Significant dose savings can mean less wear on X-ray tubes, because of their low energy efficiency.

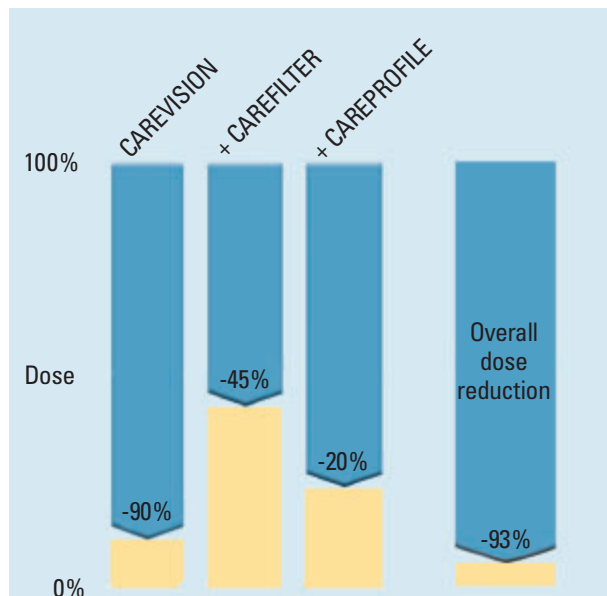
The kinetic energy from the electrons is converted into heat (as much as 99%) during braking or penetrating the anode material. The heat generated is not only without useful effect, it has to be dissipated at considerable expense.

From an environmental point of view, it is very important to diagnose with a lower tube load.

The generator-pulsed CAREVISION fluoroscopy allows you to select pulse rates ranging from 3 and 7.5 pulses/sec. to 15 pulses/sec. The shorter pulse duration puts less demand on the X-ray tubes. In fact, the average energy consumption of an AXIOM Iconos system is only approx. 28 kilowatt hours per day.\* That is about the same daily energy requirement of two OR lights.

Another positive aspect is the longer tube life.

\*Based on the following values:  
 20 patients per day, 15 images per patient  
 10 minutes fluoroscopy per patient  
 10 hours daily utilization



**If the unthinkable should occur:**

Fire causes electronic components to release corrosive or toxic substances. It is therefore important to observe the application guidelines for electrical and electronic devices.

Our products meet UL 187 of the American Underwriters Laboratories, Inc., so toxic emissions in the event of a fire are kept to an absolute minimum.





## “Til we meet again” – recycled resources in new systems

The AXIOM Iconos R200 fluoroscopy system is built to last. However, the day may come when the system needs to be safely disposed of and replaced.

Our return policy eliminates all concerns about disposal after the product has been disassembled.

The AXIOM Iconos R200 is in large part recyclable. Only 1% of the materials require thermal treatment; 99 % of the materials can be recycled.

Your new system may even contain some of those same recycled materials!

With a view towards the future EU Guidelines regarding Used Electrical and Electronic Devices, a product return concept was realized for Europe as a whole.\*

\*Environmental declaration of May 3, 2002.





## Our product return policy:

Siemens Medical Solutions is committed to the future environment through its recycling and disposal programs, which include:

- **Re-use**

in used systems, components and replacement parts (Med Refurbished Systems)

- **Further use**

of components and modules for non-medical products

- **Recovery**

Recovering raw materials (and returning them to the materials cycle) takes precedence over thermal recycling, with landfill disposal in last place.

Disassembly instructions for disposal and recycling are available for every product.

These instructions ensure that the product can be disassembled easily and safely and that any harmful substances are extracted and safely disposed of before recycling.





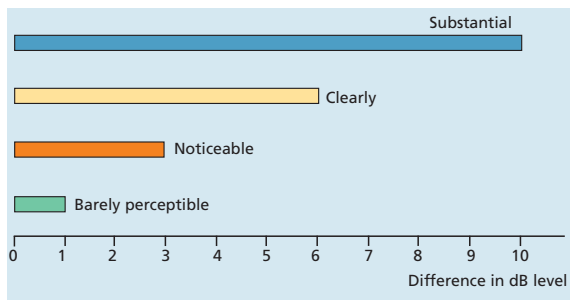
## Visible progress – AXIOM Iconos R200 facts

Compared to earlier models, the AXIOM Iconos R200 incorporates a number of important improvements.

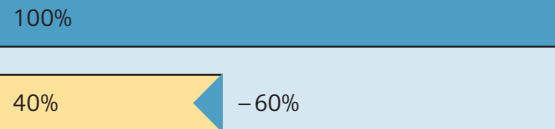
Ni/Cd batteries are no longer used, for instance.

Noise emissions were noticeably\* reduced from 60 dB(A) to 55dB(A).

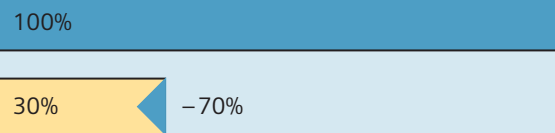
\*Sound perception



**Up to 60% reduction of on-site assembly time**



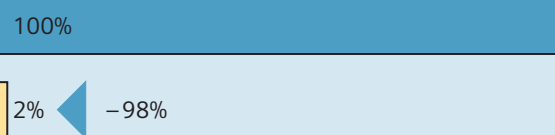
**70% reduction in number of parts**



**40% reduction in circuit board surfaces**



**98% reduction in toxic lead-content**



## Life cycle assessment

Siemens Medical Solutions products are subject to an environmental lifecycle assessment that ensures the implementation of environmental safeguards at every stage of the product life cycle.

(Innovation, development, procurement, order processing, manufacturing, sales, marketing, service, product support, recycling, product return)



**This declaration is for information purposes only.**

“The product environmental declaration is part of the performance description, but does not represent a guarantee regarding § 443 BGB (German Civil Law).”

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