



ACUSON P10 Ultrasound System

Environmental Product Declaration

www.siemens.com/healthcare

SIEMENS

Progress that is Impressive

Ecological Advantages of ACUSON P10™ Ultrasound System

- Uses less energy than a full-sized ultrasound system
- Uses a removable, rechargeable lithium ion battery
- Small mass and few components
- Modular product architecture allows for easy dismantling
- No mercury in keypad backlighting
- Suppliers are integrated into the product-related environmental protection system
- Substances contained in the products and their packaging are documented
- Product take-back program
- Over 95% of the system can be recycled at end-of-life
- Disassembly instructions for high-quality recycling are available

Energy Efficiency

Energy efficiency has been designed into the ACUSON P10 system with instant power-up, battery saving power management and fast power-down. The ACUSON P10 system operates on a rechargeable lithium ion battery.

Revolutionize the Way You Work

The ACUSON P10 system is the first pocket ultrasound imaging device providing physicians and clinical personnel with earlier, faster and more accurate clinical assessments at the point-of-care.

Benefits

- Cost-effective, real-time imaging that supports your financial strategies while improving quality of care
- Ultra-portable means you are never without information
- Improves diagnostic confidence through visual information because seeing is believing
- Instant power-up for quick decisions because time to information can be the difference between life and death

Cardiology

The ACUSON P10 system enables you to visualize basic anatomy, function and effusion as part of an initial patient assessment, routine follow-up or in pre/post procedures care in the ICU/CCU.

Emergency Medicine

Not since the introduction of the stethoscope has one tool promised to do more to enhance emergency medical screening and triage assessments. The ACUSON P10 system allows clinicians and EMTs to make faster and more accurate decisions by providing visual information when and where it's needed.

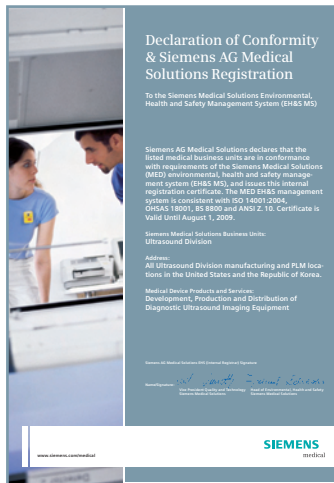
Obstetrics

The ACUSON P10 system gives physicians and midwives a quick and comprehensive overview on fetal positioning, anatomy, heart beat, fluid levels and placenta location during labor or routine office visits.

Reduced Environmental Footprint

With less mass, fewer components, better energy efficiency and reduced shipping weight as compared to a full-size ultrasound system, the ACUSON P10 system proves it is possible to have powerful performance without a large environmental footprint.

Declaration of Conformity and Siemens AG Medical Solutions Registration



Our environmental, health and safety management system conforms to a variety of recognized standards, including ISO 14001 (Environmental Management System), OHSAS 18001 (Occupational Health & Safety Management Systems Specification), BS 8800 (British Standard for Occupational Health & Safety Systems) and ANSI Z.10 (Standard for Occupational Health & Safety Management Systems).

Further information about our environmental, health and safety management system is available at www.siemens.com/healthcare-ehs.

Environmental Product Design



Material supply

From natural resources to delivery of semi-finished products



Production/delivery

From production of components to operation startup by the customer



Use/maintenance

Includes daily use by our customers as well as maintenance



End-of-life

From disassembly at the customer site, through material and energy recycling

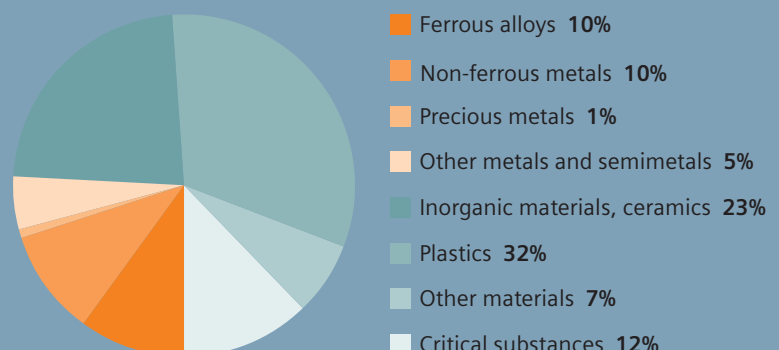
Siemens considers environmental aspects in all phases of the product lifecycle, including material supply, production/delivery, use/maintenance and end-of-life.

Our product design procedure fulfills the requirements of IEC60601-1-9:2007 "Environmental product design for medical electrical equipment".

This standard supports the effort to improve the environmental performance of our products.

Identification of Product Ingredients

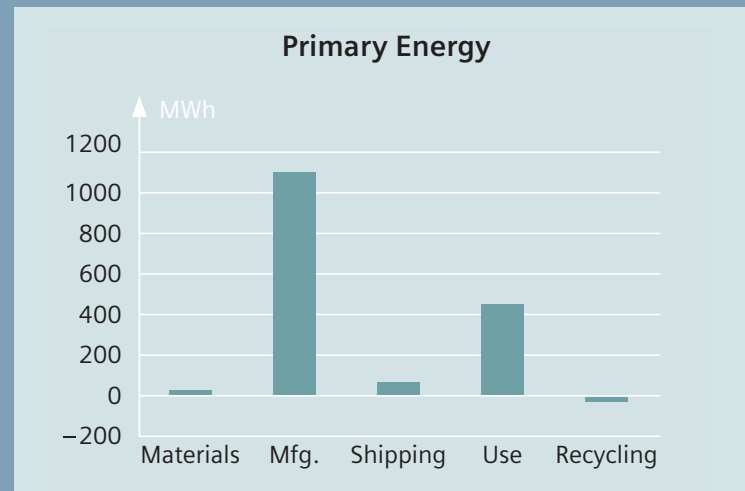
The ACUSON P10 system is mainly built out of metals and plastics. This ensures a high degree of recyclability.
Total weight: approx. 1.6 lbs (0.725 kg)



Cumulative Energy Demand

Energy consumption is the most important environmental characteristic of medical devices. This is why we use cumulative energy demand to assess environmental performance. Cumulative energy demand is the total primary energy* consumed across the product's entire lifecycle – the energy necessary to produce, use and dispose of a device – including all transportation. We design our products with the goal of reducing cumulative energy demand.

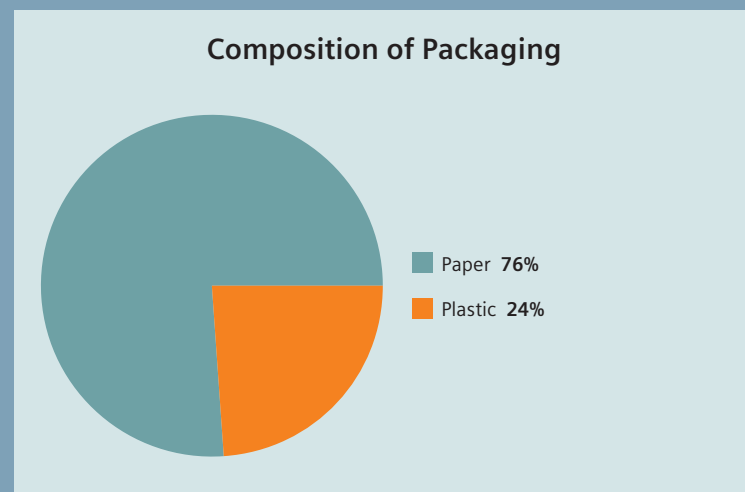
** Primary energy is the energy contained in natural resources prior to undergoing any human made conversion (e.g. oil, solar)*



Packaging

The ACUSON P10 system's packaging materials consist of almost entirely of cardboard, foam and other plastics, all of which can be recycled.

Total weight of packaging: approx. 2.6 lbs (1.2 kg)

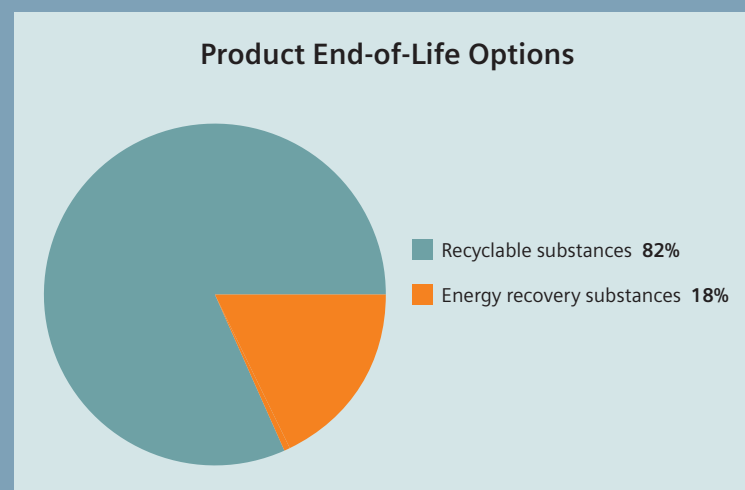


Product Take Back

Our product take-back program ensures we address the environmental aspects of our products – even at the end-of-life. We take back products, packaging and batteries as required by laws and regulations. As part of this program, we refurbish systems and reuse components whenever possible through our Refurbished System business. By having thorough knowledge of the materials comprising our products, we can design products to maximize reuse, recycling and energy recovery.

Nearly all the materials in the ACUSON P10 system have further use at the end of the product's useful life: 82% can be recycled and 18% can be used as fuel.

Siemens provides disassembly instructions to treatment facilities for the safe and proper removal and recycling of electronic components in this product.





Operating Data	
Allowed relative humidity¹	30–80%
Noise level	<50 dB
Energy Consumption	
• during ramp up ²	≤0.03 kW
• basic load ³	≤0.03 kW
• full load ⁴	≤0.03 kW
• energy saving mode ⁵	≤0.00 kW
Power-on time²	80 seconds
Power-off time⁶	1 second

¹ Within examination room

² From off-mode to operating state

³ Device is in operation but no patient examination is taking place

⁴ Average value for energy consumption during examination of patients

⁵ Device is in energy saving mode

⁶ From operating state to off-mode



Technical Specifications	
Interface for heat recovery	No
Possible type of cooling	Air-cooling
Complete switch-off is possible	Yes

Replacement Parts and Consumable	
Item	Lifecycle
Laptop Battery (Lithium Ion)	Varies with usage
Disposal / Substance Information	
End-of-life concept	Yes
Product recycling available	Yes
Packaging recycling available	Yes
Cleaning	
Incompatible cleaning processes <ul style="list-style-type: none"> • For product • For particular components 	Do not use spray cleaner. Do not pour any fluid onto the ultrasound system. Avoid use of aerosol spray cleaners on monitor screen. Ensure that cleaning solution does not seep into the control panel, keyboard, or any other openings.
Incompatible cleaning substance <ul style="list-style-type: none"> • For product • For particular components 	Do not use chlorinated or aromatic solvents, acidic or basic solutions, isopropyl alcohol or strong cleaners such as ammoniated products.
Size of the surface to be cleaned	0.15 m ²
Additional Ecologically Relevant Information	
The "Instructions for Use" contain information about:	
• Recommendations for saving energy	Yes
• Recommendations for efficient cleaning	Yes
• Recommendations for appropriate use of consumables	Yes
• Product recycling availability	Yes
• Packaging recycling availability	Yes
"Disassembly Instructions" are available	Yes

ACUSON and P10 are trademarks of
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Local Contact Information

Siemens Medical Solutions USA, Inc.
51 Valley Stream Parkway
Malvern, PA 19355-1406 USA
Telephone: +1-888-826-9702
www.usa.siemens.com/healthcare

Europe: + 49 9131 84-0
Asia Pacific: + 65 6490 6000

Global Business Unit Address

Siemens Medical Solutions USA, Inc.
Ultrasound
1230 Shorebird Way
Mountain View, CA 94043 USA
Telephone: +1-888-826-9702
www.siemens.com/healthcare

Global Siemens Headquarters

Siemens AG
Wittelsbacherplatz 2
80333 Munich
Germany

**Global Siemens
Healthcare Headquarters**

Global Siemens AG
Healthcare Sector
Henkestrasse 127
91052 Erlangen
Germany
Telephone: + 49 9131 84-0
www.siemens.com/healthcare

Legal Manufacturer

Siemens Medical Solutions USA, Inc.
Ultrasound
1230 Shorebird Way
Mountain View, CA 94043 USA
Telephone: +1-888-826-9702
www.siemens.com/healthcare