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ACUSON P500 Ultrasound System

Environmental Product Declaration

Progress that is Impressive – Ecological Advantages of the ACUSON P500 Ultrasound System

- Portable, light weight ultrasound system means a smaller environmental footprint
- Managed Node Package upgrade allows software updates to be delivered remotely, reducing customer service visit travel
- Rapid power-up and power-down time conserves energy
- All substances contained in the product and its packaging are documented
- Disassembly instructions for high-quality recycling are available

ACUSON P500 system: Reduces fossil fuel consumption and greenhouse gas emissions

Managed-Node Package (MNP) enables Siemens Remote Service (SRS) System Management. SRS System Management allows the customer to receive system software updates remotely, which eliminates time and travel costs associated with on-site software updates. Eliminating average on-site travel of 2.5 hours reduces fossil fuel consumption and greenhouse gas emissions.





Leaping forward with adaptable Point-of-Care

The ACUSON P500™ ultrasound system is an adaptable, point-of-care portable ultrasound system engineered to scale a wide range of environments and patient types.

The system delivers sophisticated technologies used in Siemens' most advanced ultrasound equipment to ensure excellent image quality, smart workflow and durability, all in a compact notebook format. With reliable and fast imaging, the ACUSON P500 system is particularly suitable for use in emergency medicine and general imaging.

- Powered by advanced technologies for maximum adaptability
- Simple, intuitive interface for flexible workflow
- Durable for rigorous use

Light weight means a smaller environmental footprint

Low mass and reduced shipping weight mean lower fossil fuel consumption and greenhouse gas emissions during shipping (for production and to customers) and less natural resources consumed in manufacturing.

With this and the reduced need for service visit travel, the ACUSON P500 system proves it is possible to have powerful performance without a large environmental impact.

Environmental Management System

Siemens Healthineers gives high priority to achieving excellence in Environmental Protection, Health Management and Safety (EHS).

Across the globe, Siemens Healthineers has implemented a consistent EHS management system. It lays the foundation for the continuous improvement of our performance in these areas, and regular auditing assures our conformance.

Healthineers is certified in accordance with ISO 14001 and OHSAS 18001.

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 through material and energy recycling

Siemens Healthineers considers environmental aspects in all phases of the product life cycle, 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".

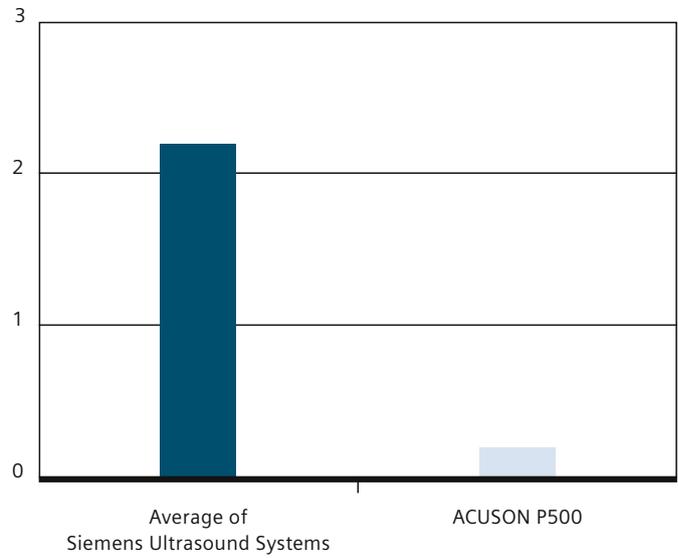
This standard supports the effort to improve the environmental performance of our products.



Energy Analysis

Energy consumption is an important environmental aspect of medical devices. The battery-powered ACUSON P500 uses 0.172 kW per day, approximately 6% of the average of Siemens ultrasound systems (2.78 kW per day).

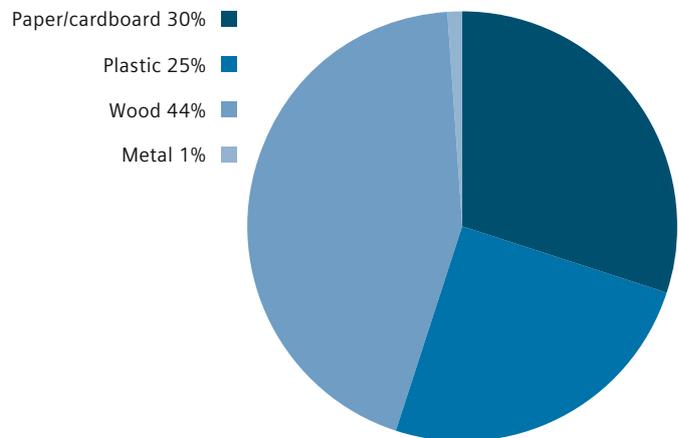
Electricity Consumption per day (kWh)



Packaging

The ACUSON P500 system packing materials consist almost entirely of plastic, paper, cardboard and wood, nearly all of which can be recycled.

Total weight:
Approximately 19.08 Kg



Operating data

Heat emissions of the device	
Stand-by mode ¹	Not applicable
Scan mode ²	0.099 kW
Allowed room temperature³	5°C – 45°C
Allowed relative humidity³	0 – 85%
Noise level	
Basic load (without probe)	38.6 dB(A)
Full load (with VF10-5 probe)	39.1dB(A) ⁶
Energy consumption	
During ramp up ⁴	0.093 kW
Stand-by mode ¹	Not applicable
Scan mode ²	0.099 kW
Power-on time⁵	30.2 sec
Power-off time⁶	27.04 sec

¹ Device is in operation but no examination takes place

² Average value for energy consumption at examination of patients

³ within examination room

⁴ From off-mode to operating state

⁵ From operating state to off-mode

⁶ Measuring according to NEMA

Technical specifications

Interface for heat recovery	Not applicable
Possible type of cooling	Air-cooling
Complete switch-off is possible	Yes
Device is adjustable for the user in terms of height	Yes
Uniform operating symbols for device families	Yes

Radiation

Not applicable

Replacement Parts and Consumables

Not applicable



Disposal/Substance Information

End of life concept	Yes
Recycling information	Yes
List of hazardous substances	Yes

Cleaning

Compatible cleaning processes

Total device	Yes
Restrictions for particular device components	Yes

List of incompatible substance classes

Total device	Chlorinated solvent
	Aromatic solvent
	Acidic solution
	Basic solution
	Isopropyl alcohol and strong cleaner
Restrictions for particular device components	Yes

Suitability of the device for sterile areas Yes

Size of the surface to be cleaned approx. 0.35 m²

Further Ecologically Relevant Information

Elements of instruction are

Recommendations for saving energy	Yes
Recommendations for efficient cleaning	Yes
Recommendations for appropriate use of consumables	No



This declaration is for information purposes only, it is not part of the specification and does not represent any warranty or guarantee.

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