



ACUSON NX3 Series

Environmental Product Declaration

siemens-healthineers.com/ultrasound





Scan smarter

The ACUSON NX3 ultrasound system is the next generation mid-range cart-based system in the Siemens Healthineers ACUSON product line. Built from the ground up with a newly designed image processing architecture and a stunning new lightweight and compact design, it delivers both superb image quality on the largest monitor in its class, as well as workflow efficiencies using Siemens Healthineers new tactile and touch UI. With a broad range of applications to meet both your day-to-day and specialized needs, the ACUSON NX3 Series are the systems of choice for the most demanding shared service, general imaging and OB/GYN requirements in hospitals and clinics.

The ACUSON NX3 Series offers advanced workflow solutions that aim to deliver consistent, accurate results – even in the most active clinical settings. With fewer keystrokes and more user-customizable settings, the ACUSON NX3 Series is faster and more intuitive than traditional systems, creating an ultrasound experience that's right for the customer and patients.

Designed to elevate daily imaging routine, the ACUSON NX3 Series features the latest ultrasound innovations from Siemens Healthineers. These tools adapt to the customer's dynamic needs by offering enhanced clarity across a wide range of applications. With imaging solutions built for performance, each exam can be approached with a greater level of diagnostic confidence.

Key product features

- Enabled for Smart Remote Services (SRS), reduces customer service visits
- 23% lighter than prior generation products
- 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

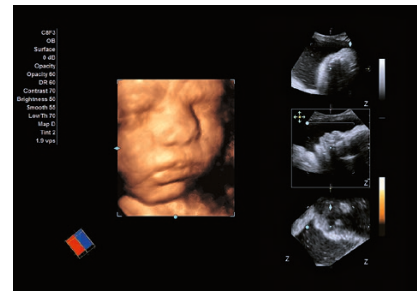
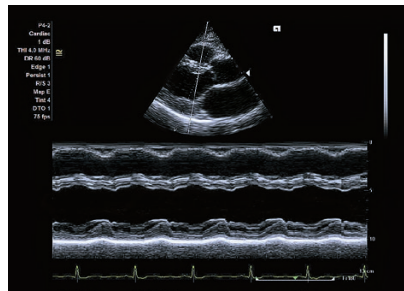
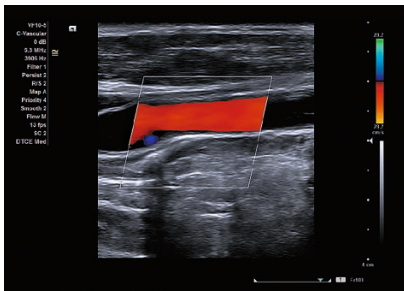
ACUSON NX3 Series

Reduced environmental impact by reducing customer service travel

ACUSON NX3™ Series is enabled for Smart Remote Services (SRS), which allows remote updates, update handling, remote fix, and remote pre-clarification. SRS reduces the number of visits that Siemens Healthineers personnel make to the customer. Eliminating average on-site travel of 2.5 hours reduces fossil fuel consumption and greenhouse gas emissions.

Reduced environmental footprint

The ACUSON NX3 Series weighs 75 kg (165 lbs) without OEMs compared to the ACUSON X600 ultrasound system, weighing 98 kg (216 lbs) without OEMs, and uses 34.8% less electricity. This leads to lower fossil fuel consumption and greenhouse gas emissions during shipping (for production and to customers) and less natural resources consumed in manufacturing.



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.

As a result of this consistent approach, Siemens Healthineers is considered one organization and 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.

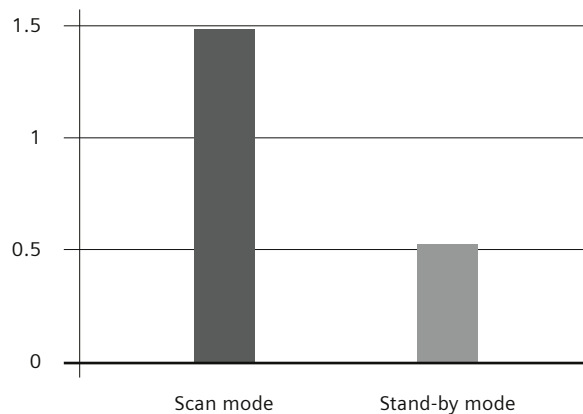
Our product design procedure fulfills the requirements of IEC60601-1-9 "Environmental product design for medical electrical equipment".

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. For the ACUSON NX3 Series, equipped with the energy efficient Stand-by mode, the user makes the difference. When not in use, the user can reduce energy usage approximately 43% by switching from Scan to Stand-by mode.

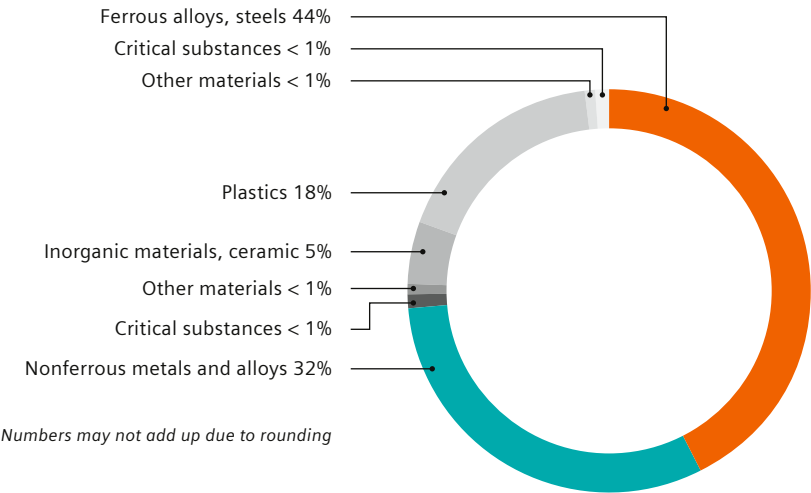
Electricity Consumption per day (kWh)



Product materials

The ACUSON NX3 series is mainly constructed out of metals and plastics. This ensures a high degree of recyclability.

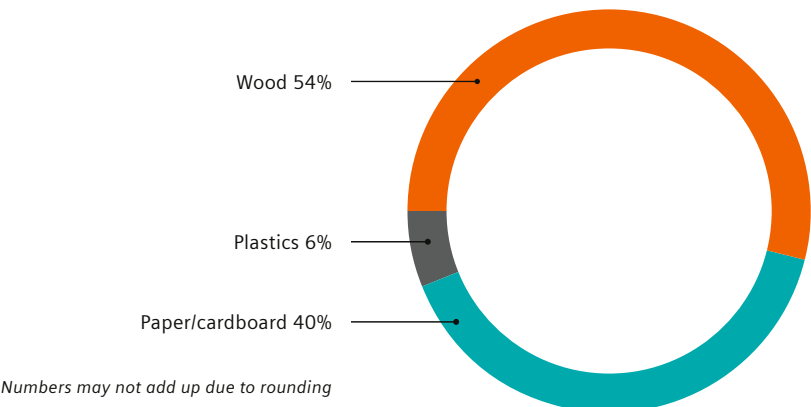
Total weight: approx. 75 kg (165 lbs)



Packaging materials

The ACUSON NX3 Series packing materials consist entirely of paper, cardboard, plastic and wood, nearly all of which can be recycled.

Total weight: approx. 35 kg (77.2 lbs)





Operating data

Heat emissions of the device:

• Stand-by mode ¹	0.13 kW
• Scan mode	0.23 kW

Allowed room temperature³ 10°C–40°C

Allowed relative humidity³ 10–80%

Noise level:

• Basic load (without probe)	46.9 dB (A)
• Full load (with VF10-5 probe)	46.9 dB (A) ⁶

Energy consumption:

• During ramp up ⁴	0.21 kW
• Stand-by mode ¹	0.13 kW
• Scan mode ²	0.23 kW

Power-on time⁴ 1 min 47 sec

Power-off time⁵ 20 sec

Technical specifications

Interface for heat recovery No

Possible type of cooling Air-cooling

Complete switch-off is possible Yes

Device is adjustable for the user in terms of height Yes

Radiation

Not applicable

Replacement parts and consumables

Item Life cycle¹⁰

Not applicable

Disposal/substance information

End-of-life concept Yes

Recycling information Yes

List of hazardous substances Yes

Cleaning

Incompatible cleaning processes:

• 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	No
---	----

Size of the surface to be cleaned ⁷	Approx. 5 m ²
--	--------------------------

Further ecologically relevant information

Elements of instructions are:

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



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

⁷ Console, probe, keyboard

On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products included in this brochure are available through the Siemens Healthineers sales organization worldwide. Availability and packaging may vary by country and is subject to change without prior notice. Some/All of the features and products described herein may not be available in the United States.

The information in this document contains general technical descriptions of specifications and options as well as standard and optional features which do not always have to be present in individual cases.

Siemens Healthineers reserves the right to modify the design, packaging, specifications and options described herein without prior notice. Please contact your local Siemens Healthineers sales representative for the most current information.

Note: Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

The statements by Siemens Healthineers customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.

ACUSON NX3 is a trademark of Siemens Medical Solutions USA, Inc.

At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, and improving patient experience, all enabled by digitalizing healthcare.

An estimated 5 million patients globally everyday benefit from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics and molecular medicine, as well as digital health and enterprise services

We are a leading medical technology company with over 170 years of experience and 18,000 patents globally. With more than 48,000 dedicated colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.

Siemens Healthineers Headquarters

Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com

Legal Manufacturer

Siemens Medical Solutions USA, Inc.
Ultrasound
22010 S.E. 51st Street
Issaquah, WA 98029, USA
Phone: 1-888-826-9702
siemens-healthineers.com/ultrasound