



**ACUSON NX2 Series**

# Environmental Product Declaration

[siemens-healthineers.com/ultrasound](https://siemens-healthineers.com/ultrasound)





## Scan smart

Today's evolving landscape of personalized healthcare requires modern ultrasound imaging designed to deliver greater productivity and efficiency, while ensuring smart, reliable outcomes. With budgetary limitations and growing patient demands, it can often be difficult to find a smart solution adaptable, affordable, and advanced enough to meet ever-changing practice needs.

The Siemens Healthineers ACUSON NX2 Series including ACUSON NX2 and ACUSON NX2 Elite ultrasound systems are engineered to exceed your imaging expectations while meeting the particular challenges of your clinical practice. Furthermore, the ACUSON NX2 Series systems deliver essential technology in scalable, upgradeable systems designed for smart scanning to allow consistent performance and impactful results. When performance exceeds practicality, the outcome is a user-inspired solution that evokes greater clinical confidence, evolves your practice, and optimizes your investment to advance the standards of imaging – the ACUSON NX2 Series ultrasound systems.

## Key product features

- Largest-in-class 21.5-inch 1080p HD display of the ACUSON NX2 system, boasting a 30 percent larger monitor with twice the pixel density
- An intuitive control panel design combined with up to four front-facing transducer ports
- Fully compatible and scalable transducers
- Easy remote access to Siemens Healthineers Customer Service technical and applications experts

# ACUSON NX2 Series

## Smart Scanning

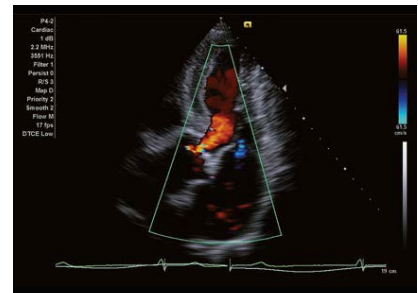
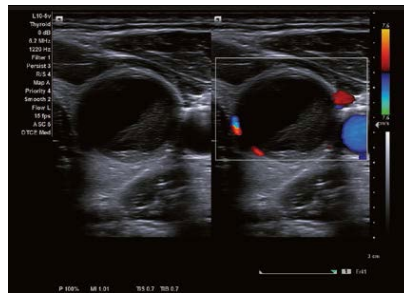
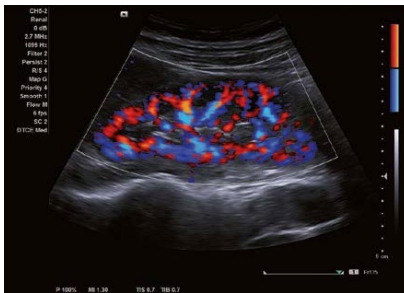
Evoke clinical confidence, promote efficiency in your protocol, and overcome your most difficult obstacles to provide the best patient care.

## Smart Performance

Evolve your daily imaging routine. The ACUSON NX2 Series systems feature new hardware architecture built for dependable and unsurpassed imaging performance so you can approach each exam with a greater level of confidence.

## Smart Engineering

Evolve your practice. The ACUSON NX2 Series systems are engineered to ensure you get the most out of your investment. Compatible transducers provide access to a wide range of imaging capabilities across clinical segments. Intuitive design promotes ease of use and technical proficiency.



## Environmental benefits

- Enabled for Smart Remote Services (SRS), reduces customer service visits
- 37% lighter than prior generation product
- Rapid power-up and power-down conserves energy
- All substances contained in the product and its packaging are documented
- Disassembly instruction for high-quality recycling are available

## Customer benefits

- Largest-in-class 21.5-inch 1080p HD display of the ACUSON NX2 Series systems, boasting a 30 percent larger monitor with twice the pixel density for enhanced image detail resolution.
- Three times more user-programmable keys and up to 20 percent fewer tactile keystrokes on a simplified control panel.
- Acquisition of dynamic imaging is possible across clinical applications using our cross-compatible, ergonomic transducers, designed to reduce injuries and enhance user comfort throughout the exam.

## 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

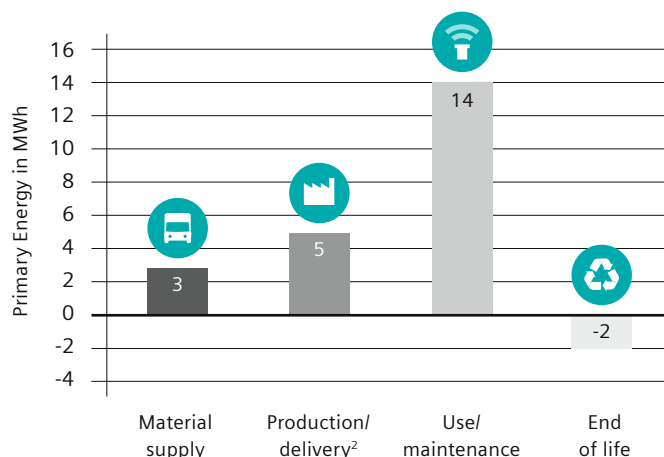
Siemens Healthineers considers environmental aspects in all phases of the product life cycle, including material supply, production/delivery, use/maintenance and end of life.

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.

## Cumulative energy demand

Energy consumption is the most important environmental characteristic of medical devices. This is why we use the Cumulative Energy Demand to assess environmental performance. Cumulative Energy Demand is the total primary energy<sup>1</sup> that is necessary to produce, use, and dispose of a device – including all transportation. Our medical devices can be recycled almost completely for materials or energy. With end-of-life treatment it is possible to return up to 2 MWh in the form of secondary raw materials or thermal energy to the economic cycle.

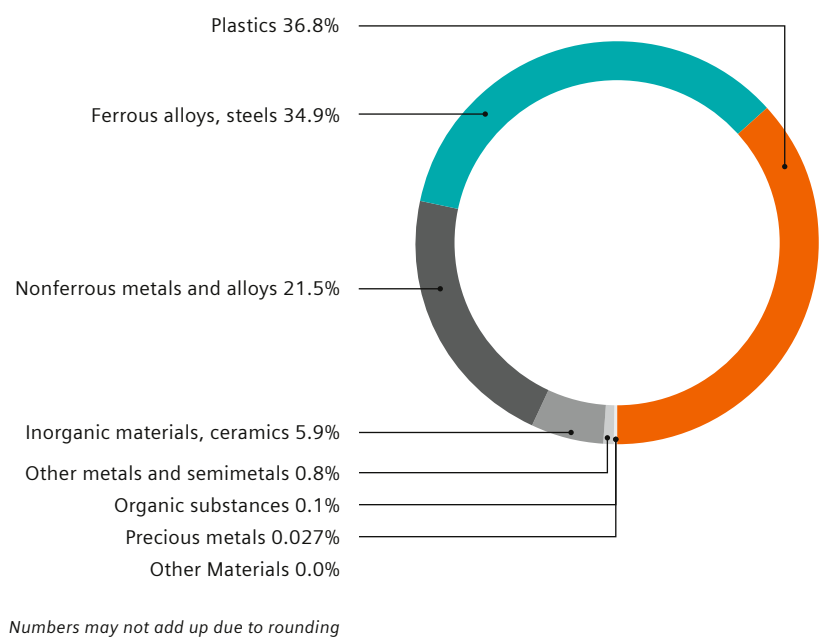


<sup>1</sup> Primary energy is the energy contained in natural resources prior to undergoing any man-made conversions (e.g. oil, solar).

<sup>2</sup> Based on usage for 9 hours per day and 250 days per year for 6 years.

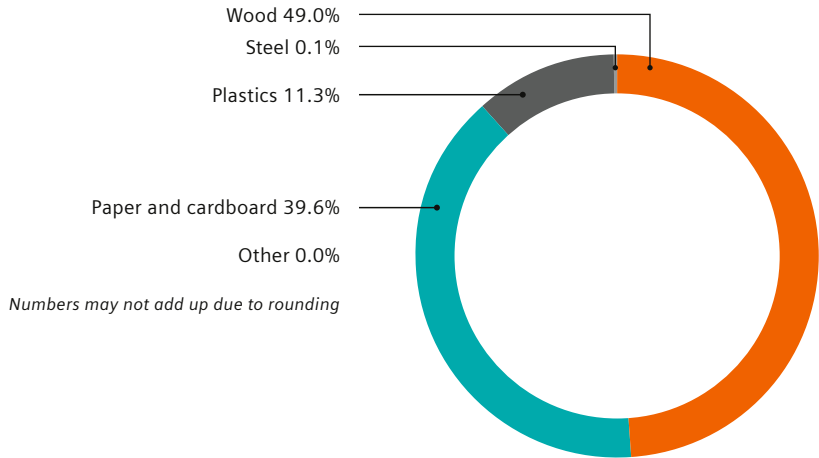
## Product materials

ACUSON NX2 Series is mainly built out of metals and plastics. This ensures a high degree of recyclability.  
Total weight: approx. 62 kg



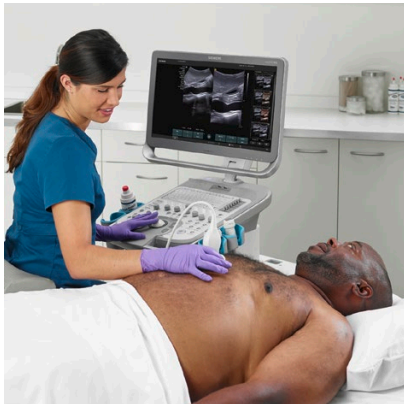
## Packaging materials

ACUSON NX2 Series' packaging is composed nearly entirely of wood, cardboard, and metal. These materials are readily recyclable.



## Product take back

ACUSON NX2 Series is composed primarily of metals and plastic. Over 98% of the substances used in ACUSON NX2 Series can be recycled for material and more than 1% can be recycled for energy.



The ACUSON NX2 Series systems provide unsurpassed image quality from value-performance systems, utilizing largest-in-class hardware and supporting enhanced operator workflow functionality to improve system uptime and user comfort.

## Operating data

Heat emissions of the device:

- On, ready to scan<sup>1</sup> < 0.20 kW
- Scanning<sup>2</sup> < 0.21 kW

Allowed room temperature<sup>3</sup> 10°C–40°C

Allowed relative humidity 10–80%

Noise level:

- On, ready to scan<sup>1</sup> 38.5 dB (A)
- Scanning<sup>2</sup> 41.7 dB (A)

Power consumption:

- During ramp up<sup>4</sup> 0.19 kW
- On, ready to scan<sup>1</sup> 0.20 kW
- Scanning<sup>2</sup> 0.21 kW
- Freeze mode<sup>5</sup> 0.20 kW
- Screen saver mode<sup>6</sup> 0.20 kW
- Stand-by<sup>7</sup> 0.14 kW

Power-on time<sup>8</sup>

Virus protection on:  
1 minute 59.92 seconds  
Virus protection off:  
1 minute 42.98 seconds

Power-off time<sup>9</sup>

22.28 seconds

## Technical specifications

Interface for heat recovery No

Possible type of cooling Air

Complete switch-off is possible Yes

Device is adjustable for the user in terms of height Yes

Uniform operating symbols for device families Yes

## Electromagnetic fields

Measures/techniques to minimize the exposure to electromagnetic fields

- complies to EN 55011/CSPR11
- power filtering
- electromagnetic shielding
- cable shielding
- grounded metallic components

<sup>1</sup> Device is in operation but no patient examination takes place.

<sup>2</sup> Average value for energy consumption during examination of patients

<sup>3</sup> Within examination room

<sup>4</sup> From off-mode to operating state

<sup>5</sup> Freeze mode: Transmission is off, image is displayed

<sup>6</sup> Screensaver mode: System is on, transmission is off, screen is blank

<sup>7</sup> Standby mode condition where the equipment is connected to the main power source, depends and provides the following functions: reactivation function, or reactivation function and only an indication of enabled reactivation function, and/or information or status display.

<sup>8</sup> From off-mode to ready to scan

<sup>9</sup> From operating state to off-mode

<sup>10</sup> Recommended exchange interval



## Replacement parts and consumables

Item	Life cycle <sup>10</sup>
Lithium batteries	1.5 years
Battery pack	6 months

Other consumables are described in the "ACUSON NX2 Diagnostic Ultrasound System Instructions for Use"

## Disposal/substance information

End-of-life concept	Yes
Recycling information	Yes
List of hazardous substances (not contained in the device)	No

## Cleaning

Incompatible cleaning processes:

- |   |  |
|---|--|
| • Total device                                  | Do not use spray cleaners  |
| • Restrictions for particular device components | Do not use aerosol cleaners on monitor   |
| • Total device                                  | Do not use chlorinated or aromatic solvents, acidic or basic solutions, isopropyl alcohol or strong cleaners such as ammoniated products. Isopropyl alcohol can be used on the trackball assembly.   |
| • Restrictions for particular device components | Do not use abrasive cleaners, organic solvents such as benzene, isopropyl alcohol, or phenol-based substances, cleaners, or disinfectants containing organic solvents to clean or disinfect transducers. Do not use an abrasive sponge or brush. Do not sterilize transducers using hot steam, cold gas, or ethylene oxide (EO) methods. |

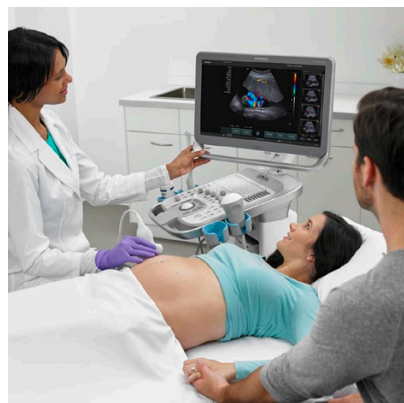
Suitability of the device for sterile areas	No
Size of the surface to be cleaned <sup>2</sup>	1.8 m <sup>2</sup>

Please refer to the dedicated operator manuals for system and components for a detailed list of approved and not approved cleaning substances and further instructions.

## Further ecologically relevant information

Elements of instructions are:

- |  |     |
|--|-----|
| • Recommendations for saving energy                  | Yes |
| • Recommendations for efficient cleaning             | Yes |
| • Recommendations for appropriate use of consumables | Yes |



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ACUSON NX2 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.

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**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