

Unleash the power of green



Thermo Scientific™ Centrifuges with GreenCool Technology

GreenCool



Less hazardous - GreenCool Technology leverages CO₂ as refrigerant with a Global Warming Potential of 1* and 0 Ozone Depleting Potential.



More energy efficient - Save up to 15%** of energy compared to previous models.

Greener by design™

Global Warming Potential From **1,397** to **1**

Thermo Scientific™ Cryofuge™, BIOS and LYNX Centrifuges are manufactured in a **certified zero-waste facility***** using **100% renewable energy** in Osterode am Harz, Germany.



DID YOU KNOW?

Measured by their Global Warming Potential, F-gases can be up to

24,300

times more potent than CO₂¹

The Earth's average temperature has risen by about

1.3°C

compared to pre-industrial era (1850-1900)²

Global sea levels have risen about

10 cm

in the past 30 years³



Cryofuge Blood Banking Centrifuges

Thermo Scientific™ Cryofuge™ Centrifuges with GreenCool Technology provide powerful productivity, convenience and enhanced sustainability for blood processing facilities.



- Large capacity and productivity**—Up to 16 x 550 mL blood bags, neutralization of 125 g loading imbalance, application flexibility
- Quick programming and run setup**—Intuitive touchscreen, instant rotor recognition and automatic adjustment of parameters to the rotor's standard settings
- Excellent ergonomics**—Lid storage, ergonomic working height, castors, adjustable feet, automatic door opening
- Reproducible and trackable results**—Onboard run logging of user and run conditions, remote monitoring app, optional software
- Compliant**—EU 2017/745 Medical Device Regulation

MORE SUSTAINABLE AND CONVENIENT



Global Warming Potential 1*
14% less energy consumption**
60 kg lighter weight
50% quieter operation****



BIOS Bioprocessing Centrifuges

Thermo Scientific™ BIOS A and 16 Centrifuges with GreenCool Technology provide high throughput, reliability and enhanced sustainability for bioprocessing facilities.

- Designed for bioprocessing needs**—Choose between 10L capacity at higher speeds of BIOS A or larger capacity of up to 16L and application versatility of BIOS 16 centrifuge
- Quick programming and run setup**—Intuitive touchscreen, instant rotor recognition and automatic adjustment of parameters to the rotor's standard settings
- Excellent ergonomics**—Lid storage, ergonomic working height, castors, adjustable feet, automatic door opening
- Reproducible and trackable results**—Onboard run logging of user and run conditions, remote monitoring app, optional software
- Certified**—Compliant with latest global standards; cleanroom compatibility ISO Class 6



MORE SUSTAINABLE AND CONVENIENT



Global Warming Potential 1*
Up to 15% less energy consumption**
60 kg lighter weight
50% quieter operation****



LYNX Superspeed Centrifuges

Thermo Scientific™ LYNX Superspeed Centrifuges with GreenCool Technology combine innovative features for reproducible results with enhanced sustainability for research laboratories and bioprocessing facilities.



- Powerful performance**—Up to 100,605 x g with fixed angle rotors, high-capacity swinging bucket rotor option with up to 10,025 x g
- Application flexibility**—Variety of supported labware and support for even continuous flow/zonal applications
- Quick programming and run setup**—Intuitive touchscreen, instant rotor recognition, and tool-free rotor exchange with push-button security
- Reproducible and trackable results**—Onboard run logging, remote monitoring app, optional data management software for regulatory compliance
- Excellent ergonomics**—Automatic door opening, lightweight carbon fiber rotors, rotor speed handles, centrifuge foot space for better placement, and more



MORE SUSTAINABLE AND CONVENIENT



Global Warming Potential 1*
13% less energy consumption**
35 kg lighter weight
37% quieter operation****



References:

- 1) Greenhouse Gas Protocol, Retrieved March 10, 2025, from <https://ghgprotocol.org/sites/default/files/2024-08/Global-Warming-Potential-Values%20%2BAugust%202024%29.pdf>
- 2) Copernicus Climate Change Service (C3S), Retrieved March 10, 2025, from <https://climate.copernicus.eu/climate-indicators/temperature>
- 3) Copernicus Climate Change Service (C3S), Retrieved March 10, 2025, from <https://climate.copernicus.eu/climate-indicators/sea-level>

* Due to natural refrigerant (CO₂)

** Energy use measured for a 1-hour run at maximum speed and compared to previous model. New Cryofuge model: 4600W vs Previous Sorvall BP/ Cryofuge: 5400W; New BIOS A model: 5400W vs Previous Sorvall BIOS A model: 6400W; New BIOS 16 model: 4600W vs. Previous Sorvall BIOS 16 model: 5400W.

*** Zero waste defined as less than 10% of non-hazardous waste sent to landfill, incineration or waste-to-energy

**** Measured at maximum speed compared to previous model.

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