ThermoFisher SCIENTIFIC

Centrifugation

Five reasons

To use Sorvall LYNX Centrifuge Series for your superspeed centrifugation requirements

thermo scientific

5 Performance simplified at every turn

“Thermo Scientific Sorvall LYNX 4000 Superspeed is highly reliable and the use of light-weighted carbon fiber rotors makes an exceptional experience in our routine protocols on handling bacteria culture and protein purification.”

Dr. Jimmy Lai, Laboratory Manager,
Centre for Immunology & Infection (C2i),
Hong Kong

In today’s busy laboratories, safe and efficient sample processing is essential to getting answers faster.

Superspeed centrifuges are critical instruments in both basic research and bioprocessing applications. The Thermo Scientific™ Sorvall™ LYNX Superspeed Centrifuge Series features powerful technologies with breakthrough simplicity.

Here are 5 reasons why you can rely on these models for your superspeed centrifugation needs.

1 Performance

2 Safety

3 Ergonomics

4 Connectivity

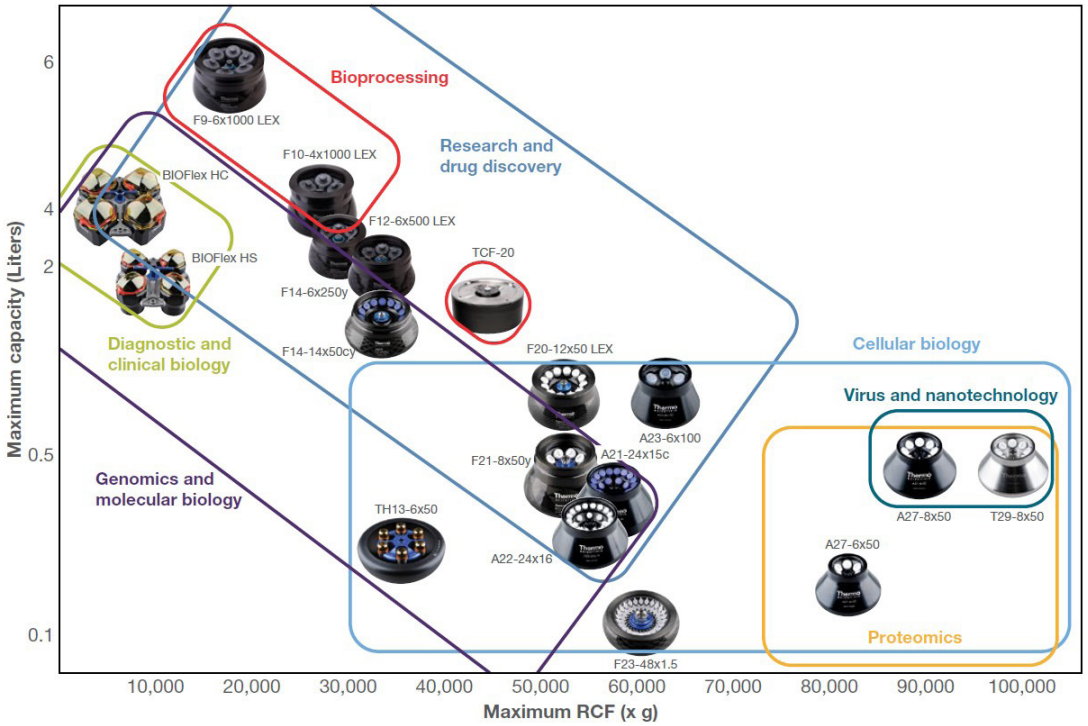
5 Sustainability

1 Performance

Exceptional performance to meet evolving application needs, from academic research to production facilities, with up to 100,605 x g, and up to 6 L capacity.

Versatile, high-throughput sample processing from 6 x 1 L bottles, to 40 x 50 mL conical tubes, to 24 microplates per run. Help save time and ensure sample integrity with fast acceleration and deceleration rates, combined with smooth runs at all speeds.

Lightweight carbon fiber rotors provides outstanding RCF performance for enhanced productivity—up to 24,471 x g with the 6 x 500 mL (3 L volume) and up to 17,568 x g with the 6 x 1000 mL (6 L volume)



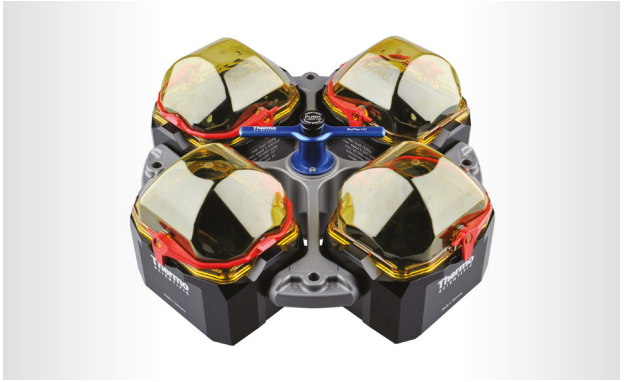
2 Safety

Rotor safety - securing and identifying the rotors

In only 3 seconds, with just the push of a button, Thermo Scientific™ Auto-Lock™ Rotor Exchange allows you to install and remove rotors on LYNX superspeed centrifuges. With Auto-Lock rotor exchange, you can have the confidence that your rotor is safely and securely locked in place, and have the flexibility to change rotors and applications quickly.

Thermo Scientific™ Auto-ID™ Rotor Identification allows immediate identification of a rotor when the rotor is installed in the centrifuge chamber, with rotor specifications automatically loaded into the centrifuge parameters:

- Shortens run set-up time by eliminating the need to find and set rotor codes
- Helps eliminate over-speed risk, reduce error messages, and improve centrifuge, sample, and operator safety



Sample protection

Get one-handed, certified sample protection with Thermo Scientific™ ClickSeal™ Biocontainment Lids:

- Biocontainment sealing options for glove-friendly, one-handed open/close capability
- Ergonomically designed for both right- and left-handed operations
- Simple operation for all laboratory users, eliminating multi-turn screw caps and complicated high pressure clips
- Biocontainment certification by Public Health England, Porton Down, UK or TÜV NORD CERT GmbH, Germany

3 Ergonomics

Touchscreen interface
Simple and quick run set-up with a glove-friendly, large, bright, interactive touchscreen for all centrifuge functions and durable for use run after run, year after year.

Easy door opening
Centrifuge door opens fully and automatically–even with full hands–by using the door-open bar mounted on front of the centrifuge.

<59dBA

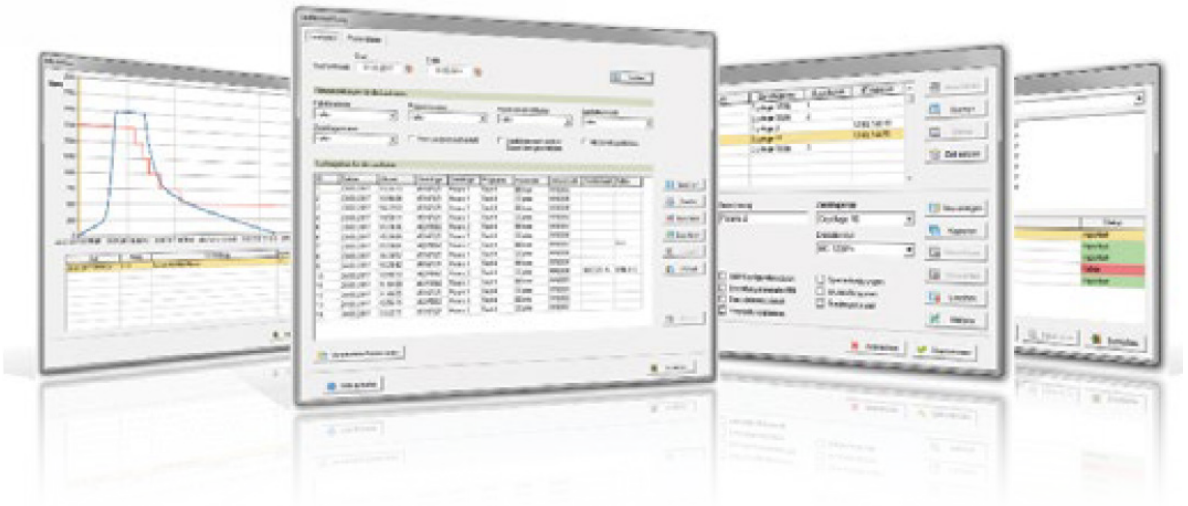
Quiet operation
Quiet performance with fixed angle rotors and <61 dBA with swinging bucket rotors helps provide a safe and reduced stress environment.

- Lightweight Thermo Scientific™ Fiberlite™ Carbon Fiber Rotors—up to 60% less weight than metal rotors, improves ergonomics and productivity
- Effortless loading and unloading with optimal working height of 860 mm, an integrated surface work space, and front design with foot space allowing a closer position to the centrifuge.
- Easier and safer lifting and carrying of rotors with new speed handles, further enhanced with lightweight Fiberlite rotors
- Latest global safety standards without the need to bolt down the instrument to the floor, helping greatly simplify installation and flexibility to relocate within a facility

4 Connectivity

Thermo Scientific™ Centri-Log™ Plus Data Management Software is a protocol-tracking solution to enable lifecycle management of processed samples, equipment optimization, and compliance with standard operating procedures.

- Paperless process tracking
- Logical design and intuitive operation
- Unlimited connections with centrifuges in one PC
- Connection to central database via customized export files in both CVS and pdf formats
- Multi-lingual operation, including English, German, French, Italian, Polish, Spanish and Chinese
- Electronic records and signatures possible
- Supports GMP / 21 CFR Part 11 compliance



5 Sustainability

Superspeed centrifuges are critical instruments in both basic research and bioprocessing applications and their continuous use can significantly contribute to the overall energy consumption of the lab. To manage energy and environmental impact in high-use environments, the LYNX superspeed centrifuge offers several key features that contribute to reduced energy use during operation, including the **Green Mode, Smart Vacuum, Fiberlite carbon rotors** and **power factor corrector module**.

Green Mode

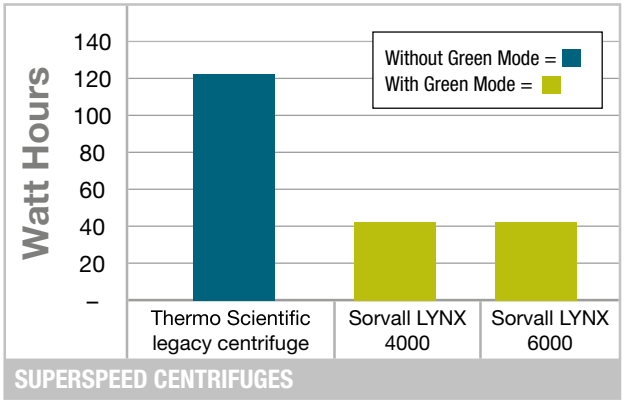
When not in use for more than two hours, a LYNX superspeed centrifuge can be set to sleep with the Green Mode.

A simple touch on the control panel wakes the centrifuge for immediate use. During low-use periods, such as nights and weekends, this can save significant power – up to 64% when compared to our previous generation of Thermo Scientific superspeed centrifuges.

Smart Vacuum

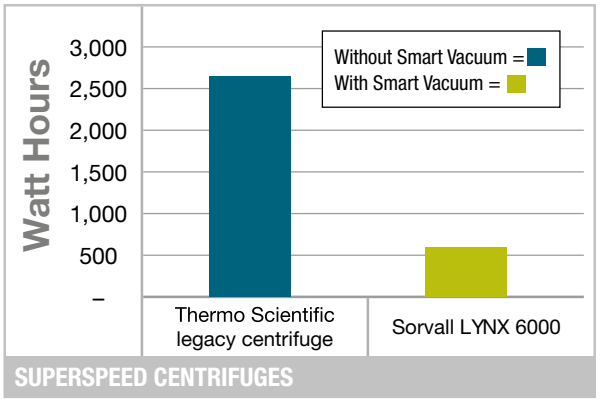
Smart Vacuum, available on the LYNX 6000 centrifuge, removes up to 80% of the air inside the centrifuge chamber. As a result, air friction on the spinning rotor is greatly reduced, as is the power required to spin and cool the rotor by up to 74% when compared to identical run conditions on our previous generation of Thermo Scientific superspeed centrifuges.

Energy use comparison with vs. without Green Mode[1]



[1]Comparison of energy use while centrifuge is idle.

Energy use comparison with vs. without Smart Vacuum[2]



[2]Comparison of 6 x 1000 mL rotors run at 8,500 rpm, 4°C.

Summary
5 reasons

The LYNX superspeed centrifuge series features powerful technologies with breakthrough simplicity, from push-button security and application flexibility of Auto-Lock rotor exchange, to immediate rotor detection and programming of Auto-ID instant rotor identification, and the improved ergonomics and performance of Fiberlite carbon fiber rotors. Achieve high-throughput sample processing up to 6 L capacity and up to 100,605 xg. Supports multiple users and the evolving research needs of a shared laboratory setting, and is designed for reliability for consistent results and maximum uptime.

- **Performance** – Meeting evolving application needs, from academic research to production facilities, with up to 100,605 x g, and 6 L capacity
- **Safety** – Auto-Lock rotor exchange and Auto-ID system for rotor flexibility and security as well as sample protection with one-handed ClickSeal biocontainment lids to eliminate multi-run screw caps and complicated high pressure clips
- **Ergonomics** – Effortless loading and unloading with lightweight Fiberlite rotors, optimal working height and integrated surface work space
- **Connectivity** – Full data management software to support CFR 21 Part 11 compliance
- **Sustainability** – Fiberlite rotors and features like Green Mode and Smart Vacuum help improve energy efficiency

Learn more at **thermofisher.com/floorcentrifuges**