

Centrifugation

# Thermo Scientific LYNX 4000 and 6000 Superspeed Centrifuges

## Greener with every spin

Thermo Scientific™ LYNX 4000 and 6000 Superspeed Centrifuges feature a next-generation natural refrigerant cooling system. Thermo Scientific™ GreenCool Technology operates with carbon dioxide (CO<sub>2</sub>) as refrigerant, which has a Global Warming Potential (GWP) of 1, lower than other refrigerants, while not contributing to depletion of the ozone layer and is compliant with EU and US EPA F-gas regulations.

Besides being less hazardous, the centrifuges are more energy efficient with up to 13% lower energy consumption compared to previous models. Additionally, they are manufactured in a certified zero-waste facility using 100% renewable energy in Osterode am Harz, Germany.

### LYNX 4000 Superspeed Centrifuge

Up to 4L capacity and performance up to 68,905 x g

### LYNX 6000 Superspeed Centrifuge

Up to 6L capacity and performance up to 100,605 x g

#### Thermo Scientific™ features

**High speed and versatility:** Supports a wide range of applications with multiple rotor and adapter options.

**Auto-Lock™ Rotor Exchange:** Change rotors quickly and securely in seconds.

**Auto-ID™ Instant Rotor Identification:** Automatically detects and sets rotor parameters.

**Centri-Vue™ Application:** Monitor remotely via mobile devices.

**GMP/GLP and 21 CFR Part 11 compliance:** Traceability with optional Centri-Log™ Plus software.

**GreenCool Technology:** Natural refrigerant cooling system.

**Smart Vacuum System:** Activated as needed for further energy efficiency (6000 model).

**Fiberlite™ Carbon Fiber Rotors:** Corrosion-resistant, durable, and lightweight.

**HEPA Filtration (optional):** Enhanced biosafety in regulated environments (6000 model).

GREEN  
COOL  
TECHNOLOGY



GLOBAL  
WARMING  
POTENTIAL\*

1

LOWER  
ENERGY  
CONSUMPTION\*\*

-13%

MADE IN A  
CERTIFIED  
**ZERO-  
WASTE**  
FACILITY\*\*\*

LESS  
WEIGHT

-35 kg

LOWER  
NOISE  
LEVEL\*\*\*\*

-37%

\* Due to natural refrigerant (CO<sub>2</sub>)

\*\* Energy use measured for a 1-hour run at maximum speed and compared to previous model. New: 4200W vs Previous: 4800W

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

\*\*\*\* 2db(A) quieter at maximum speed compared to previous model

Specifications	LYNX 4000 Superspeed Centrifuge		LYNX 6000 Superspeed Centrifuge	
Maximum capacity	<b>Fixed angle rotor:</b> 4 L (4 x 1,000) 10,500 rpm, 20,584 x g	<b>Swinging bucket rotor:</b> 4 L (4 x 1,000) 24 microplates, 40 x 50 mL or 96 x 15 mL conical tubes 5,500 rpm, 7,068 x g	<b>Fixed angle rotor:</b> 6 L (6 x 1,000) 9,000 rpm, 17,568 x g	<b>Swinging bucket rotor:</b> 4 L (4 x 1,000) 24 microplates, 40 x 50 mL or 96 x 15 mL conical tubes 5,500 rpm, 7,068 x g
Maximum speed	24,000 rpm		29,000 rpm	
Maximum RCF	68,905 x g (with A27-8x50 and T29-8x50 rotors)		100,605 x g (with T29-8x50 rotor)	
Rotor locking system	Auto-Lock		Auto-Lock	
Rotor identification	Auto-ID instant, automatic		Auto-ID instant, automatic	
Drive system	High torque brushless		High torque brushless	
Imbalance tolerance	5% of opposing loads <sup>1</sup>		5% of opposing loads <sup>1</sup>	
Partial vacuum system	No vacuum		Smart Vacuum	
HEPA filter	Not available		Optional	
Green technology	GreenCool Technology, Green Mode		GreenCool Technology, Green Mode, Smart Vacuum	
Control	Touchscreen interface		Touchscreen interface	
Accel/decel profiles	9 accel, 10 decel, brake-off option		9 accel, 10 decel, brake-off option	
Speed range	Minimum 500 rpm, maximum 24,000 rpm		Minimum 500 rpm, maximum 29,000 rpm	
Speed control accuracy	±25 rpm		±25 rpm	
Run time	99 hrs 59 min 59 sec, HOLD (with “at-start” and “at-speed” options)		99 hrs 59 min 59 sec, HOLD (with “at-start” and “at-speed” options)	
Step-runs	30 profile/speed/time triplets, up to 3 steps each		30 profile/speed/time triplets, up to 3 steps each	
Pre-cooling function	Yes		Yes	
Temperature set range	–10 to +40°C		–20 to +40°C	
Temperature accuracy	±2°C		±2°C	
ACE integrator (w2t)	Yes		Yes	
Continuous flow	No		Yes	
Other functions	Multilingual selection, rotor calculator, onboard training videos, user logging, user lock-out, automatic door opening, rotor speed handle		Multilingual selection, rotor calculator, onboard training videos, user logging, user lock-out, automatic door opening, rotor speed handle	
Instrument bolt down	Not required, optional seismic bolt down		Not required, optional seismic bolt down	
Dimensions (H x D x W)	930 x 805 x 700 mm/ 36.6 x 31.7 x 27.6 in.		930 x 805 x 700 mm/ 36.6 x 31.7 x 27.6 in.	
Work height of top deck	860 mm/ 33.9 in.		860 mm/ 33.9 in.	
Weight	256 kg / 564 lb		266 kg / 586 lb	
Heat output	<2.5 kW		<1.7 kW	
Noise	<58 dBA (fixed angle rotors), <61 dBA (swinging bucket rotors)		<57 dBA (fixed angle rotors), <61 dBA (swinging bucket rotors)	
Certification	cULus <sup>2</sup> , CE, IEC 61010-1, IEC 61010-2-020 and IEC 61010-2-011, RoHS, WEEE		cULus <sup>2</sup> , CE, IEC 61010-1, IEC 61010-2-020 and IEC 61010-2-011, RoHS, WEEE	
Cleanroom compatibility	ISO Class 6 according to DIN EN ISO 14644-1		ISO Class 6 according to DIN EN ISO 14644-1	
Warranty	1 yr unit, 3 yrs drive, 5 yrs refrigeration		1 yr unit, 3 yrs drive, 5 yrs refrigeration	

1) Fiberlite F9-6x1000 rotor imbalance is 25 g; BIOFlex HC rotor imbalance is 20 g (opposing loads).

2) Applies to Cat. No. 75008590 and 75008580 only.

## Ordering information

Centrifuge	Cat. No.
LYNX 4000 Superspeed Centrifuge, 200–240 V, 50/60 Hz, 30 A, Single-phase	75008580
LYNX 4000 Superspeed Centrifuge, 220(380)-240(415) V, 50/60 Hz, 16 A, 3-phase	75008581
LYNX 6000 Superspeed Centrifuge, 200-208 / 220-240 V, 50/60 Hz, 30 A, Single-phase (North America and Japan only)	75008590
LYNX 6000 Superspeed Centrifuge, 220(380)-240(415) V, 50/60 Hz, 16 A, 3-phase	75008591
LYNX 6000 Superspeed Centrifuge, 220-240 V, 50/60 Hz, 30 A, Single-phase	75008592

Learn more at [thermofisher.com/lynx](https://thermofisher.com/lynx)

**thermo** scientific

**For Laboratory Use. It is the customer's responsibility to ensure that the performance of the product is suitable for customers'**

**specific uses or applications.** © 2025 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. Specifications, terms, and pricing are subject to change. **FLY-10186995 0325**