



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	30306805
LYNX 4000 Superspeed Centrifuge, 220(380)-240(415) V, 50/60 Hz, 16 A, 3-phase	30306803
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	30306806
LYNX 6000 Superspeed Centrifuge, 220-240 V, 50/60 Hz, 30 A, Single-phase	30306804

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