ThermoFisher SCIENTIFIC

Centrifugation

LYNX 4000 and 6000 Superspeed Centrifuges

Greener with every spin

thermo scientific

Superspeed centrifugation

Exceptional performance, application versatility and enhanced sustainability

Thermo Scientific™ LYNX 4000 and 6000 Superspeed Centrifuges with GreenCool Technology bring outstanding power and enhanced sustainability to research and bioprocessing laboratories. They are equipped with a natural refrigerant (CO_2) cooling system, reducing environmental impact without compromising performance. Their lighter weight and reduced noise levels help improve the laboratory environment, while enhanced ergonomics and quick setup of traceable runs help ensure consistent and reliable results. Additionally, increased energy efficiency lowers overall operating costs.

The result? Productivity, safety, and reliability redefined—empowering laboratories to achieve more while embracing a greener future with reduced operational costs.

- Thermo Scientific™ Auto-ID™ Instant Rotor Identification
- Thermo Scientific™ Fiberlite™ Carbon Fiber Rotors
- Thermo Scientific™ Auto-Lock™ Rotor Exchange
- Automatic Door Opening
- Versatility: Suitable for a wide range of applications
- Thermo Scientific™ Accumulated Centrifugal Effect (ACE™) Function
- GreenCool Technology (both models) and Smart Vacuum System (6000 model)
- Thermo Scientific™ Centri-Touch™ Interface
- Full GMP/GLP traceability and compliance with optional Thermo Scientific™ Centri-Log™ Plus Data Management Software
- Thermo Scientific™ Centri-Vue™ Application

Contents

Greener by design™

Sustainability aspects

We leverage the power of innovation to positively contribute to a healthier world, which includes reducing the environmental impact of our products and packaging—from design to end of life. By incorporating environmental sustainability principles into each design step, we can better understand and reduce the environmental impact of our products early in the design process, helping to ultimately deliver on our commitment to achieve net-zero emissions by 2050 while helping customers advance their sustainability goals.

Greener by design: We integrate Design for Sustainability into our product development to reduce environmental footprint without compromising quality. Our strategy targets five areas: less hazardous, less waste, more energy efficient, responsibly packaged, and extended life.

LYNX centrifuge series with GreenCool technology delivers powerful performance combined with more sustainable innovation. Featuring a next-generation natural refrigerant (CO_2) cooling system, it reduces environmental impact with a Global Warming Potential (GWP) of 1, while not contributing to depletion of the ozone layer and is compliant with EU and US EPA F-gas regulations. In addition to being **less hazardous**, the centrifuges are **more energy efficient**. Furthermore, they are **manufactured in a certified zero-waste facility*** using 100% renewable energy** in Osterode am Harz, Germany.

Global Warming Potential = 1*

Up to 13% lower energy consumption**

Made in a certified zero-waste facility***

Higher speeds at 4° C****

Less hazardous

More energy efficient

* Due to natural refrigerant (CO_2)
** Energy use measured for a 1-hour run at maximum spin speed and compared to previous model. Previous 3-phase model: 4800W; new models with GreenCool technology: 4200W
*** Zero waste defined as less than 10% of non-hazardous waste sent to landfill, incineration or waste-to-energy
**** Compared to previous models

GreenCool Technology

Performance, efficiency and enhanced sustainability

Better for the environment

Lower Global Warming Potential

The refrigeration system uses carbon dioxide (CO_2), a natural gas with a Global Warming Potential (GWP) of 1. It does not deplete the ozone layer, ensuring a more sustainable choice.

Energy efficiency

Lower energy consumption in cooling system

GreenCool technology enhances cooling efficiency, reducing the overall energy consumption of LYNX superspeed centrifuges by up to 13% at maximum speed[1], minimizing environmental impact, and lowering operating costs.

Reduced power demand at startup

With a startup current of just 8A, compared to 140A in older models, LYNX centrifuges are now more accessible for a wider range of users. Manufacturing facilities, in particular, benefit from lower power demands, reducing the risk of electrical issues and simplifying installation.

Smart Vacuum System – active only when needed

The LYNX 6000 centrifuge features a Smart Vacuum System that can be activated only when required, reducing unnecessary energy consumption and operational expenses.

Green Mode

To manage energy efficiency in high-use environments, LYNX superspeed centrifuges have a Green Mode setting, which puts a centrifuge in sleep mode (idle) when not in use for more than two hours.

Improved performance

Superior deep cooling performance

LYNX centrifuges with GreenCool technology maintain stable cooling at lower temperatures than the legacy platform, ensuring the integrity of temperature-sensitive samples.

Higher maximum speeds at 4°C

Higher speeds and lower temperatures typically conflict—but with GreenCool Technology, LYNX centrifuges can now achieve greater speeds at 4°C with select high-speed rotors[2], delivering enhanced performance for more efficient separations.

Enhanced convenience

Lighter weight for easier handling

Thanks to the GreenCool technology, LYNX centrifuges are on average 35 kg (77 lbs) lighter than previous models, making relocation, laboratory cleaning, and maintenance simpler (new LYNX 4000: 256 kg / 564 lbs; new LYNX 6000: 266 kg / 586 lbs).

Quieter operation for a better lab environment

LYNX centrifuges with GreenCool technology operate up to 2 dB(A) quieter at maximum speed[3], reducing noise levels by 37%. This significant reduction minimizes noise disturbances, and the variable speed-adapted compressor prevents sudden noise spikes, ensuring a smoother and more pleasant user experience.

1) 3-phase models

2) A27-6/8x50 and T29-8x50 fixed-angle rotors

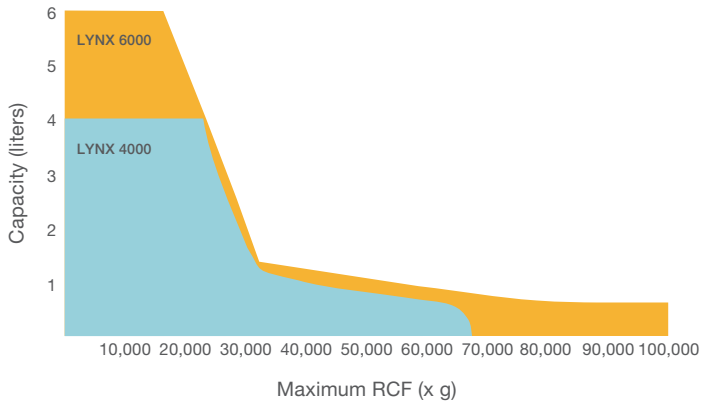
3) LYNX 6000 model with T29-8x50 rotor

Models

Designed for powerful and reliable performance

With a long history of application expertise, we build innovative centrifuges that help improve your productivity

LYNX superspeed centrifuges are available in two models to meet your needs: the LYNX 4000 Centrifuge, with a 4L capacity and performance up to 68,905 × g, and the LYNX 6000 Centrifuge, with a 6L capacity and performance up to 100,695 × g.



Goal:	Leverage innovative features for precise, reproducible results with enhanced convenience	Maximize the volume and speed capabilities of the LYNX platform for a broader range of applications.
Centrifuge	**LYNX 4000 Superspeed Centrifuge** Combines innovation and everyday efficiency, handling up to 4 x 1000 mL or various tubes, bottles, and plates. Reaching 68,905 x g, it meets your core laboratory needs while offering the flexibility for expanding applications.	**LYNX 6000 Superspeed Centrifuge** Delivers RCF up to 100,605 x g, supporting 6 x 1000 mL or various tubes, bottles, and plates. Featuring a broad rotor portfolio for high performance and continuous flow/zonal capability, it also includes Smart Vacuum technology for energy efficiency and an optional HEPA filter for enhanced biosafety. Ideal for diverse and advanced research and bioproduction applications.
		
Rotors	Up to 16 rotor options	Up to 19 rotor options including continuous flow/zonal rotor options
Maximum capacity	Fixed angle rotor: 4 L (4 x 1,000) | 10,500 rpm, 20,584 x g Swinging bucket rotor: 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	Fixed angle rotor: 6 L (6 x 1,000) | 9,000 rpm, 17,568 x g Swinging bucket rotor: 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 (rpm)	24,000 rpm	29,000 rpm
Maximum RCF (x *g*)	68,905 x g (with A27-8x50 rotor)	100,605 x g (with T29-8x50 rotor)

Features and benefits

Auto-Lock rotor exchange

Secure, push-button rotor exchange in less than 3 seconds helps improve safety and ensures the rotor is automatically and securely locked during a run. The rotor locks itself to the centrifuge, eliminating the need for hand-tightening. This technology allows for quick rotor changes and application flexibility, meeting the evolving needs of your laboratory.

- Trouble-free rotor installation and removal
- No tools required

Auto-ID instant rotor identification

The Auto-ID instant rotor identification technology automatically and instantly identifies a rotor the moment it is placed into the centrifuge chamber. This technology adjusts the parameters to the rotor's standard settings, saving time and enhancing ease of use. Additionally, instant rotor identification helps eliminate the risk to over-speed a rotor by preventing the accidental entry of an incorrect rotor code or a speed that is too high for the inserted rotor.

Auto-ID instant rotor identification helps improve safety, save time, and protect the integrity of your samples

1. Place rotor into the centrifuge chamber
2. Rotor is immediately detected and its parameters are loaded
3. Confirm settings and begin run

Centri-Touch interface

The touchscreen interface, featuring a bright, highly visible, and durable display, simplifies run setup and provides onboard training and access controls, including user login with password protection.

Centri-Vue Application

Thermo Scientific™ Centri-Vue™ Application provides real-time run monitoring and basic remote control.

Automatic Door Opening

Compact, non-bolt-down design, automatic door opening, and an integrated surface workspace help optimize everyday centrifuge use.

Fiberlite Carbon Fiber Rotors

- Lightweight carbon fiber and innovative construction allow unique rotor designs not possible with metal
- Corrosion and fatigue resistance helps secure the rotor's structural integrity for unparalleled durability
- Backed by a 15-year warranty[4]

Ergonomics

Experience 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 speed handles, further enhanced with lightweight Fiberlite rotors
- The 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
- Quiet performance (<57 dBA with fixed angle rotors, <61 dBA with swinging bucket rotors) helps provide a safe and reduced-stress environment
- Centrifuge door opens fully and automatically—even with full hands—by using the door-open bar mounted on front of the centrifuge
- Auto-Lock rotor exchange with Auto-ID instant rotor identification helps simplify run set-up and eliminate the worry of overspeeding or rotor accidents

Lightweight rotors with speed handles

Foot space for rotor placement ergonomics

Holder for rotor lid or tools

4) Subject to Thermo Fisher Scientific's standard limited warranty. See thermofisher.com or your sales representative for details.

Features and benefits

Biocontainment security

Thermo Scientific™ ClickSeal™ Biocontainment Lids are designed to help provide a secure and quick solution for containment of biohazardous samples.

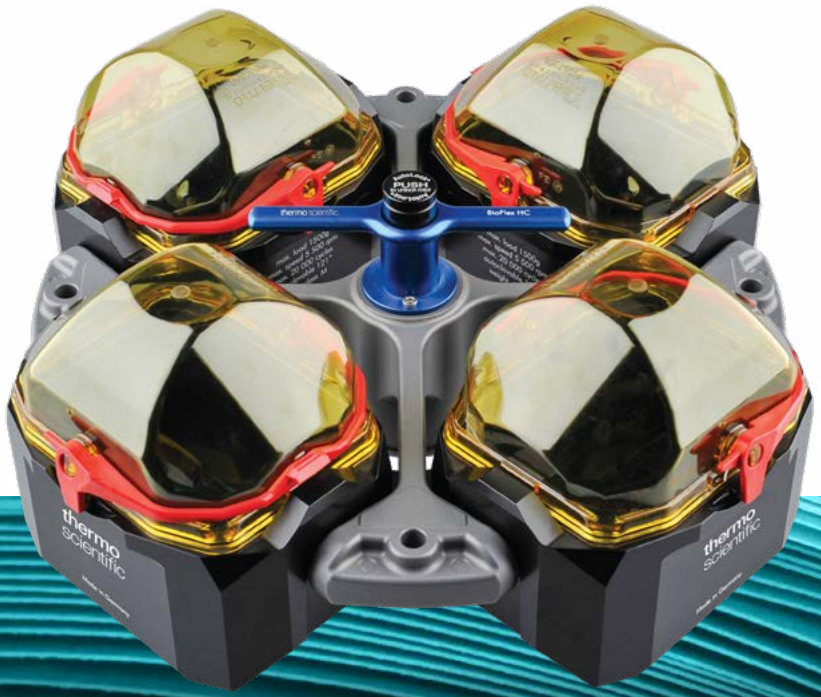
- Superspeed rotors certified by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK or TÜV NORD CERT GmbH, Germany are noted by 
- In case of tube or bottle failure, a volume of fluid is contained in a special curved containment annulus at the top of most fixed angle rotors
- LYNX 6000 centrifuges with HEPA filters provide an additional level of safety in case of tube or bottle failure

Smart Vacuum system

The LYNX 6000 centrifuge features a Smart Vacuum System, which removes up to 80% of the air inside the centrifuge chamber. This reduction in air friction on the spinning rotor lowers the power needed to spin and cool the rotor, thus saving energy and reducing operational costs. Please specify when the vacuum should be used. Possible options are: ‘High Speed Only‘ or ‘Smart Energy Optimized‘.

Secure investment

- Outstanding imbalance-tolerant drive helps improve system reliability and longevity
- Robust design supported by a 1-year unit warranty, 3-year drive warranty, 5-year refrigeration warranty, and comprehensive 15-year Fiberlite carbon fiber rotor warranty[5]
- Protect your investment with our complete portfolio of customized, integrated, and innovative services and support solutions



5) Subject to Thermo Fisher Scientific’s standard limited warranty. See thermofisher.com or your sales representative for details.


Door Open
thermo scientific
thermoscientific
LYNX 6000
Centrifuge

Data management and connectivity

Touchscreen interface

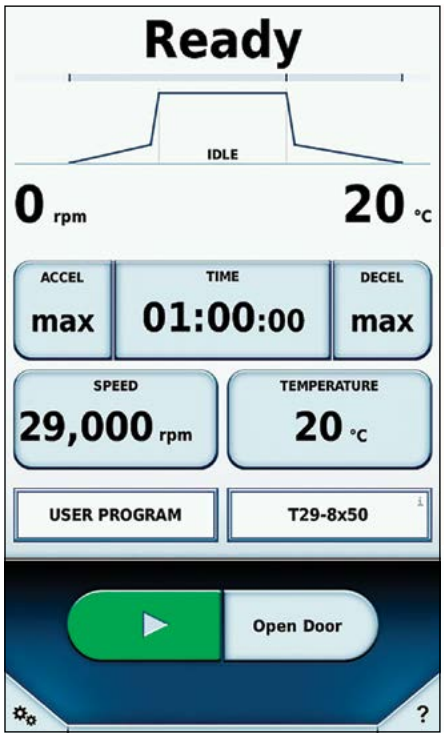
Simple and quick run setup with a glove-friendly, large, bright, interactive touchscreen for all centrifuge functions and durable for use run after year after year.

- Create up to 120 programs with alphanumeric naming for easy access
- In-use training with onboard tutorial videos and a quick-start manual
- Integrated rotor calculator for simplifying protocol modifications and transfers
- Operator and run logging and reporting via USB port
- Highly visible backlit display of set and actual run conditions, which is enlarged during the run for clear visibility — even from across the lab
- Multilingual instructions, including English, German, French, Spanish, Chinese, Japanese, Portuguese, and more on programming, run conditions, alerts, and service messages
- User access control with optional password protection is well-suited for a multi-user environment. In total, 120 users can be created.
- Designed to support GMP/GLP compliance with data logging and easy-to-use Thermo Scientific™ Centri-Log™ Plus Data Management Software

Glove-friendly touchscreen interface

Run logs are downloadable with USB or Ethernet connections

Simple, quick run setup and monitoring



Status information

Run parameters

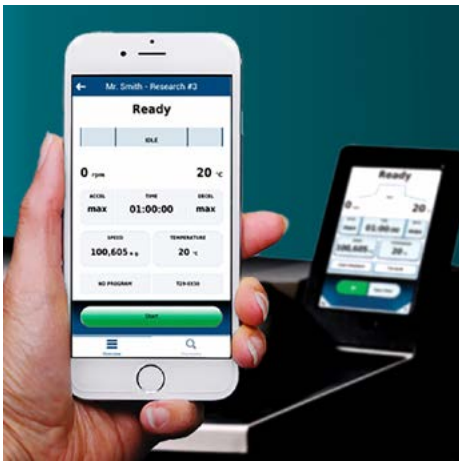
Control and configuration

Easily set current parameters and monitor centrifuge status

Connection simplified

Our Centri-Vue application provides real-time connection with your LYNX superspeed centrifuges. From your mobile device, check your run status or if a centrifuge is available without even leaving your office or lab desk.

- Determine status at a glance of 1 or up to 100 centrifuges
- Monitor your run
  - Replicate instrument main screen on your smart device
  - Know when your run is complete
  - Check for diagnostic errors affecting your run
- Establish secure centrifuge connection for remote start or stop control

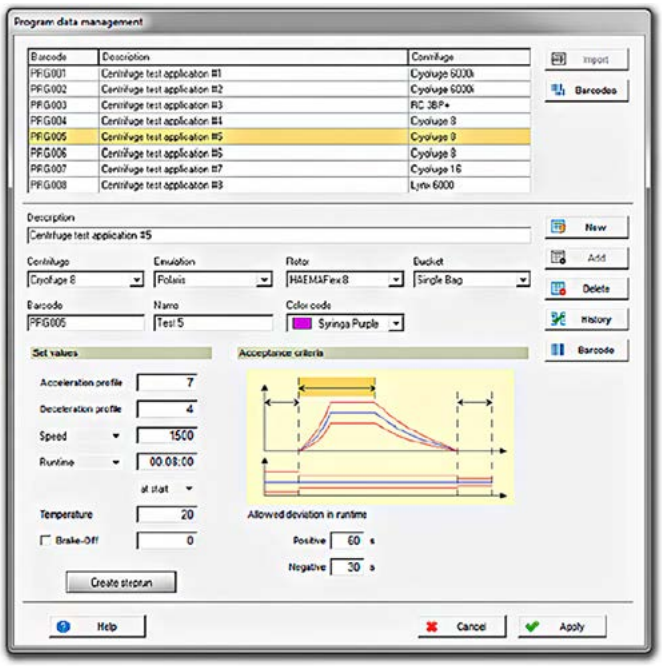


Download the Centri-Vue application for instant remote monitoring and control, available for both iOS™ and Android™ devices.

Data management simplified

Centri-Log Plus Data Management Software is a protocol-tracking solution to enable life cycle management of processed samples, equipment optimization, and compliance with standard operating procedures. Connect and track unlimited units of centrifuges on the same network. The software provides three logging models and optional external monitoring and control. Run logs can be downloaded via USB port or real-time via Ethernet.

- Improve traceability with documentation of processes, including continual monitoring of speed, time, and temperature with alarm messages in case of protocol deviation
- Supports compliance with 21 CFR Part 11, including secure, computer-generated, time-stamped audit trails to record entries and actions performed in the system
- Ability to check run parameters against procedures in the database
- Connection to central database through customized export file
- Communication with third-party software, e.g. LIMS or SCADA, via an ASCII export file



Description	Cat. No.
Centri-Log Plus Software	75007742
Sample Tracking Kit (contains barcode scanner, holder, and cable)	75007740
Network Access Kit	75007741

Extensive rotor portfolio

- **Swinging bucket rotors:** Versatility and expanded capacity at high RCF with dozens of adapters for research flexibility
- **Fixed angle rotors:** Complete portfolio for commonly used 50 mL, 50 mL conical, 250 mL, 500 mL and 1 L tubes and bottles with specialty rotor options to address specific protocol requirements
  - Dedicated conical tube rotors, which allow samples to be run in inexpensive, disposable conical tubes at more than 60,000 x g
  - High-speed microtube rotor
  - Titanium rotor for RCFs up to 100,605 x g
- **Fiberlite carbon fiber rotors:** Simply lighter, more secure investment
- **Continuous flow/zonal rotors:** Scale-up flexibility from superspeed applications to harvesting and clarification

Popular rotors

Thermo Scientific™ Fiberlite™ F9-6x1000 LEX Rotor (only for LYNX 6000 model)

The next generation of high-capacity Fiberlite rotors, the Fiberlite LEX rotor series, further advances carbon fiber design and is available in 6 Liter capacity.

The LEX series features:

- **Excellent ergonomics:** Lightweight with improved ergonomics for everyday ease of handling
- **Exceptional performance:** Achieve outstanding RCF performance for enhanced productivity—up to 17,568 x g with the Fiberlite F9-6x1000 LEX fixed angle rotor
- **Enhanced safety:** From lightweight design and lifting handles, to biocontainment technology and certifications, these rotors provide multiple levels of laboratory and operator protection to help enhance safety without compromising functionality or convenience
- **Various sample containers:** 6 x 1 L bottles with the versatility of tube adapters from 1.5 mL microtubes to 500 mL bottles

Thermo Scientific™ BIOFlex™ HC Swinging Bucket Rotor

Spin more than 35 tube styles with dozens of adapters for research flexibility

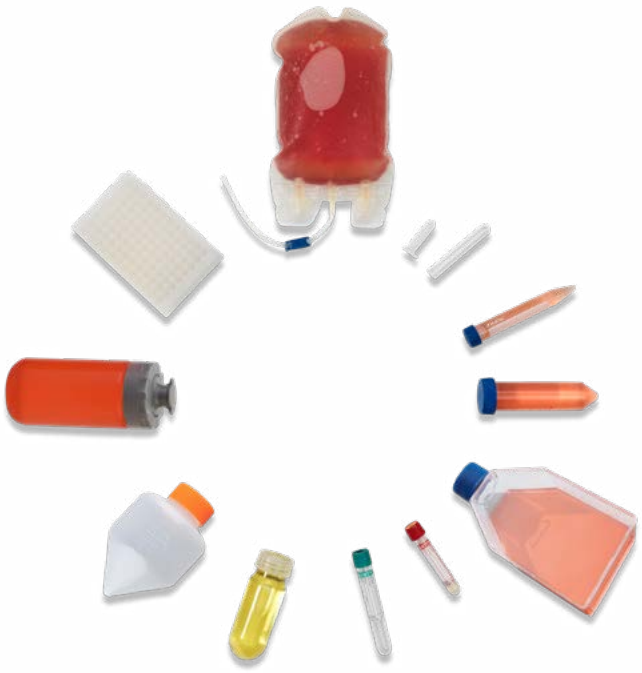
- Thermo Scientific BIOFlex HC rotor supports up to 40 x 50 mL conical tubes, 96 x 15 mL conical tubes, 24 microplates, and over 35 other tube styles with dozens of adapters for research flexibility
- Optional ClickSeal biocontainment lids

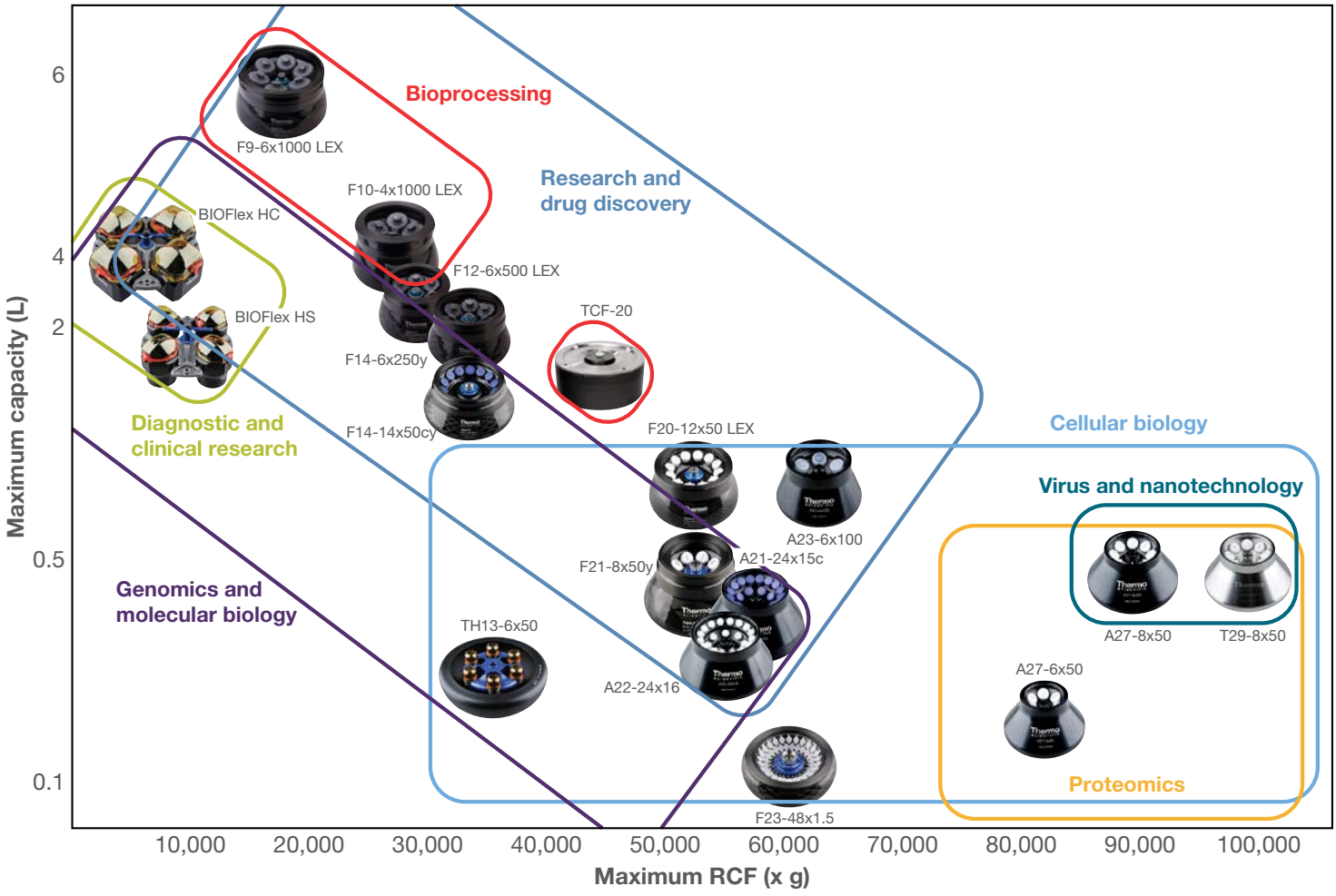
Application flexibility

The extensive rotor portfolio for the LYNX superspeed centrifuge series supports labware from microplates to microtubes, to 1 L bottles — providing applications flexibility for years to come, even as your lab's research focus evolves.

Thermo Scientific™ Rotors are available for a wide range of processing needs:

- Cellular biology
- Diagnostic and clinical research
- Genomics and molecular biology
- Proteomics
- Virus and nanotechnology
- Research and drug discovery
- Bioprocessing





Rotor specifications

Superspeed rotors						LYNX 6000 Superspeed Centrifuge			LYNX 4000 Superspeed Centrifuge				
Category	Cat. No.	Rotor		Max. capacity		Max. speed (rpm)	Max. RCF (x g)	K factor	Max. speed (rpm)	Max. RCF (x g)	K factor	Rmax (mm)	Sample containment
Swinging bucket rotors	75003000	BIOFlex HC		4 x 1000 mL 40 x 50 mL conical 24 microplates		5,500	7,068	5,522	5,500	7,068	5,522	209	☣
	75003002	BIOFlex HS		4 x 400 mL 4 x 250 mL conical		7,000	10,025	4,889	7,000	10,025	4,869	183	☣
	75003010	TH13-6x50		6 x 50 mL round 6 x 50 mL conical 6 x 15 mL conical		13,100	30,314	1,503	13,100	30,314	1,503	157	☣
Fixed angle high capacity rotors	096-061075	Fiberlite F9-6x1000 LEX		6 x 1000 mL		9,000	17,568	2,886	n.A.			194	☣
	096-041075	Fiberlite F10-4x1000 LEX		4 x 1000 mL		10,500	20,584	2,767	10,500	20,584	2,767	167	☣
	096-062375	Fiberlite F12-6x500 LEX		6 x 500 mL		12,000	24,471	1,388	12,000	24,471	1,388	152	☣
	096-062075	Fiberlite F14-6x250y		6 x 250 mL		14,000	30,240	1,699	14,000	30,240	1,699	138	☣
Fixed angle high speed conical rotors	096-145075	Fiberlite F14-14x50cy		14 x 50 mL conical		14,000	33,746	798	13,000	29,097	925	154	☣
	75003004	A21-24x15c		24 x 15 mL conical	Outer row	21,500	63,049	379	19,500	51,865	461	122	☣
					Inner row	21,500	63,049	558	19,500	51,865	679	122	
Fixed angle high speed rotors	096-124375	Fiberlite F20-12x50 LEX		12 x 50 mL		20,000	51,428	455	18,000	41,657	562	115	☣
	096-084275	Fiberlite F21-8x50y		8 x 50 mL		20,000	47,850	744	18,000	38,759	919	107	☣
	75003005	A22-24x16		24 x 16 mL	Outer row	22,000	60,063	377	22,000	60,063	377	111	☣
					Inner row	22,000	60,063	547	22,000	60,063	547	111	
	75003006	A23-6x100		6 x 100 mL		23,500	62,976	503	21,000	50,290	630	97	☣
Fixed angle highest RCF performance rotors	096-484075	Fiberlite F23-48x1.5		48 x 1.5 mL		23,000	57,368	199	18,500	37,116	307	97	
	75003007	A27-6x50		6 x 50 mL		27,000	79,057	485	24,000	62,465	613	97	☣
	75003008	A27-8x50		8 x 50 mL		27,000*	87,207	408	24,000	68,905	517	107	☣
	75003009	T29-8x50		8 x 50 mL		29,000*	100,605	354	24,000	68,905	517	107	☣
Continuous flow/zonal rotors	75003012 #	TCF-20 Continuous flow		1350 mL		20,000	42,931	620				96	☣
	75003013 #	TCF-20 Zonal		1350 mL		20,000	42,931	620				96	☣

☣ Biocontainment certification by the Public Health England, Porton Down, UK or TÜV NORD CERT GmbH, Germany.

Continuous flow kit 75007637 is needed to order separately for rotor operation.

Rotor adapters

Thermo Scientific BIOFlex HC swinging bucket rotor

	Description	Rotor capacity (places x volume, mL)	Max tube dimensions (Ø x L, mm)	Cat. No.
Rotor				
	BIOFlex HC Swinging Bucket Rotor	4 x 1,000		75003000
	ClickSeal Biocontainment Lids for BIOFlex HC Buckets (set of 4)			75007309
	BIOLink Adapter for BIOFlex HC Buckets (set of 4)			75007304
Adapters for BIOFlex HC Rotor (sets of 4)				
1	1,000 mL Polypropylene Wide-Mouth Bio-Bottle (75007300)	4 x 1,000	126 x140	75007301
2	750 mL Polypropylene Wide-Mouth Bio-Bottle / BioLink adapter	4 x 750	98 x 133	75007304
3	500 mL Oak Ridge Bottle	4 x 500	70 x 160	75004253
4	500 mL Corning™ Conical Bottle	4 x 500	98 x 133	75007302 + Corning 431124
5	250 mL Wide-Mouth Conical Bottle	4 x 250	62 x 145	75005392
5	250 mL Corning Conical Bottle or 200 mL Nunc Bottle or 175 mL Nalgene Conical Bottle	4 x 250	62 x 145	75005392
6	250 mL Nalgene Oak Ridge Bottle	8 x 250	62 x 130	75007305
6	225 mL BD Falcon™ Conical Bottle	8 x 225	62 x 130	75007305 + BD 352090
6	200 mL Nunc Conical Bottle	8 x 200	62.5 x 139	75007305 + Nunc 377585
6	175 mL Nalgene Wide-Mouth Conical Bottle	8 x 175	62 x 130	75007305 + Nalgene DS3126-0175
7	50 mL Conical Tissue Culture Tube	40 x 50	30 x 120	75003674
8	50 mL Double Biocontainment Vessel for 50 mL Conical Tube	20 x 50	29.5 x 120	75004255
9	50 mL Nalgene Oak Ridge Tube	48 x 50	29.5 x 120	75004252
10	15 mL Conical Tissue Culture Tube	96 x 15	17.5 x 121	75007306
11	10 mL Blood Collection Tube or Corex™/Kimble™ Tube	148 x 10	17 x 110	75003672
12	5/7 mL Blood Collection Tube (BD Vacutainer™)	196 x 5/7	14 x 110	75003671
13	4.5/6 mL Blood Collection Tube (Greiner™)	164 x 4.5/6	14 x 110	75003709
14	Microplate Carriers	4 x 6 Standard or 4 x 2 Deep-Well	86 x 128	75007303
15	Small Blood Bag/Cell Culture Bags	4 x 2 Bags		75003829
Adapters for BIOFlex HC Rotor (sets of 4)*				
16	100 mL Round Bottom Open-Top Tube	8 x 100	62.5 x 139	75003713
17	50 mL Conical or Skirted Tube	20 x 50	29.5 x 120	75003824
18	25 mL Universal Conical or Skirted Tube	28 x 25	29.5 x 120	75003716
19	16 mL Nalgene Round Bottom Tube	48 x 16	18 x 134	75003718
20	15 mL Blood Collection Tube	32 x 15	17 x 125	75003719
21	5 mL RIA or Round Bottom Tube (without cap)	148 x 5	13 x 116	75003724
22	1.5/2.0 mL Conical or Round Bottom Microtube	192 x 1.5/2.0	11 x 50	75003733
23	T-75 Nunc Easy Flask	4 x T-75		75008383
24	T-25 Nunc Easy Flask	8 x T-25		75008384

Biocontainment certification by the Public Health England, Porton Down, UK.

*All adapters from no. 16 to 24 must be used with a Thermo Scientific™ BIOLink™ Adapter (Cat. No. 75007304)

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Rotor adapters

Thermo Scientific BIOFlex HS swinging bucket rotor

Cat. No.		Description	Rotor capacity (places x volume, mL)	Max tube dimensions (Ø x L, mm)
Rotor				
75003002		BIOFlex HS Swinging Bucket Rotor	4 x 400	
75003656		ClickSeal Biocontainment Lids for BIOFlex HS Buckets (set of 4)		
Adapters for BIOFlex HS Rotor (sets of 4)				
No adapter needed	**25**	400 mL Polypropylene Bio-Bottle (75007585)	4 x 400	80 x 125
75004258	**26**	250 mL Nalgene Wide-Mouth Conical Bottle	4 x 250	62 x 135
75004257	**27**	250 mL Oak Ridge Bottle	4 x 250	62 x 135
75004257	**27**	225 mL BD Falcon Conical Bottle	4 x 225	62 x 130
75004258	**26**	200 mL Nunc PPCO Conical Bottle	4 x 200	62 x 125
75004258	**26**	175 mL Nalgene Wide Mouth Conical Bottle	4 x 175	62 x 125
75003708	**28**	100 mL Round Bottom Open-Top Tube	4 x 100	45 x 117
75003707	**29**	50 mL DIN Round Bottom Tube	12 x 50	34.5 x 105
75005393	**30**	50 mL Conical Tissue Culture Tube	12 x 50	29.5 x 116
75003683	**31**	50 mL Conical Tissue Culture Tube	16 x 50	29.5 x 116
75003799	**32**	50 mL Nalgene Oak Ridge Tube	16 x 50	28.5 x 114
75003703	**33**	30 mL DIN Round/Flat Bottom Tube	20 x 30	25.5 x 108
75003706	**34**	20/25 mL Universal Round Bottom Tube	12 x 20	25 x 110
75003798	**35**	16 mL Nalgene Round Bottom Tube	28 x 16	18 x 112
75005394	**36**	15 mL Conical Tissue Culture Tube	36 x 15	17 x 121
75003704	**37**	15 mL Round Bottom Tube (Sarstedt™)	40 x 15	17 x 105
75003794	**38**	15 mL Blood Collection Tube (17 x 125 mm)	16 x 15	15.5 x 131
75003681	**39**	10/15 mL Corex/Kimble Tube or 10 mL Blood Collection Tube (BD Vacutainer/Vacuette™)	56 x 10/15	17 x 113
75003680	**40**	5/7 mL Blood Collection Tube (BD Vacutainer)	76 x 5/7	13 x 110
75003825	**41**	4.5/6 mL Blood Collection Tube (Greiner)	64 x 4.5/6	13 x 110
75003793	**42**	3/5 mL RIA or Round Bottom Tube (without cap)	76 x 3/5	11 x 110
75003700	**43**	1.5/2 mL Conical or Round Bottom Microtube	136 x 1.5/2	11 x 45

Biocontainment certification by the Public Health England, Porton Down, UK.

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Labware selection

Compatible labware for each rotor is indicated with a check mark. Please see photos (referenced by letter) below. (Labware not shown to scale.)

Cat. No.	Rotor	1,000 mL (A)	500 mL (B)	500 mL conical (C)	250 mL (D)	250 mL conical (E)	175 mL conical (F)	100 mL (G)	80 mL	50 mL	50 mL conical (H)	30 mL (I)	16 mL (J)	15 mL conical (K)	12 mL	10 mL (L)	7 mL	5 mL	4 mL microtubes (M)	3 mL	2.0 microtubes	1.5 microtubes	1.0 CAB tube	Microplates (N)	Tissue culture flask (O)	Filtration kits	Blood tubes (P)	Blood bags — small
Swinging bucket rotors																												
75003000	BIOFlex HC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
75003002	BIOFlex HS				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	
75003010	TH13-6x50									✓	✓	✓		✓															
Fixed angle high capacity rotors																												
096-061075	Fiberlite F9-6x1000 LEX	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓		✓			✓		✓	✓					✓	
096-041075	Fiberlite F10-4x1000 LEX	✓	✓		✓	✓		✓		✓	✓	✓	✓	✓		✓			✓		✓	✓					✓	
096-062375	Fiberlite F12-6x500 LEX		✓		✓	✓		✓		✓	✓	✓	✓	✓		✓											✓	
096-062075	Fiberlite F14-6x250y				✓			✓		✓	✓	✓	✓	✓	✓	✓											✓	
Fixed angle high speed conical rotors																												
096-145075	Fiberlite F14-14x50cy									✓	✓	✓	✓	✓		✓										✓	✓	
75003004	A21-24x15c													✓												✓		
Fixed angle high speed rotors																												
096-124375	Fiberlite F20-12x50 LEX									✓		✓	✓	✓		✓											✓	
096-084275	Fiberlite F21-8x50y									✓		✓	✓	✓		✓											✓	
75003005	A22-24x16												✓				✓	✓		✓	✓							
75003006	A23-6x100							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					✓	
Fixed angle high RCF performance rotors																												
096-484075	Fiberlite F23-48x1.5																					✓						
75003007	A27-6x50									✓		✓	✓		✓	✓	✓		✓	✓	✓		✓				✓	
75003008	A27-8x50									✓		✓	✓	✓	✓	✓	✓		✓	✓	✓		✓				✓	
75003009	T29-8x50									✓		✓	✓	✓	✓	✓	✓		✓	✓	✓		✓				✓	

A. 1,000 mL

B. 500 mL

C. 500 mL conical

D. 250 mL

E. 250 mL conical

F. 175 mL conical

G. 100 mL

H. 50 mL conical

I. 30 mL

J. 16 mL

K. 15 mL conical

L. 10 mL

M. 4 mL

N. Microplates

O. Tissue culture flask

P. Blood tubes

Product specifications

Specifications	LYNX 4000 Superspeed Centrifuge		LYNX 6000 Superspeed Centrifuge	
Maximum capacity	**Fixed angle rotor:** 4 L (4 x 1,000) 10,500 rpm, 20,584 x g	**Swinging bucket rotor:** 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	**Fixed angle rotor:** 6 L (6 x 1,000) 9,000 rpm, 17,568 x g	**Swinging bucket rotor:** 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[6]		5% of opposing loads[6]	
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[7], CE, IEC 61010-1, IEC 61010-2-020 and IEC 61010-2-011, RoHS, WEEE		cULus[7], CE, IEC 61010-1, IEC 61010-2-020 and IEC 61010-2-011, RoHS, WEEE	
Cleanroom compatibility	Class ISO 6 according to DIN EN ISO 14644-1		Class ISO 6 according to DIN EN ISO 14644-1	
Warranty[8]	1 yr unit, 3 yrs drive, 5 yrs refrigeration		1 yr unit, 3 yrs drive, 5 yrs refrigeration	

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

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

8) Subject to Thermo Fisher Scientific standard limited warranty. See thermofisher.com or your sales representative for details.

Ordering information

Product		Cat. No.
Centrifuges		
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, Single-phase		75008592
Power plugs for single phase units[9]		
IEC60309 32A-6h 3 pin blue, 200–250 V		20190357
NEMA 6-30P 30A-6h, 200–250 V		20190358
IEC60309 32A-6h 5 pin red, 230–400 V		20190359
3x AWG10 NEMA L6-30P/CEE		20190364
Power plugs for 3-phase units[9]		
IEC60309 16A-6h 5 pin rot (3P+N+PE), 380-415V		20190367
IEC60309 32A-6h 5 pin rot (3P+N+PE), 380-415V		20190369
Accessories		
HEPA Filter (for use with Cat. No. 75008590, 75008591 and 75008592 only)		75000011

9) Centrifuges will include power plug most common for country of order. Please indicate alternate power plug requirements at time of order.

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