



Clinical centrifuges

Clinical centrifuge solutions

Exceptional performance and precision

Improving lives starts with trusted equipment

Thermo Scientific™ Clinical Centrifuges are designed to revolutionize your laboratory experience. As a trusted provider of laboratory equipment, we understand the critical role that centrifuges play in clinical settings. Our centrifuges are designed with precision, reliability, and ease of use in mind, helping empower healthcare professionals to achieve accurate results and focus on what matters most – patient care.

Benefits of our clinical centrifuges:

- Precise and reliable separation
- Efficient sample processing
- Space-conscious design
- User-friendly interface
- Enhanced safety features
- Versatile compatibility
- Energy efficiency
- Low maintenance requirements



Contents

Centrifuge selection	4
Microcentrifuge	6
Medifuge centrifuge	8
Small benchtop / floor centrifuges	10
Compact general purpose centrifuges	12
High-capacity general purpose centrifuges	14

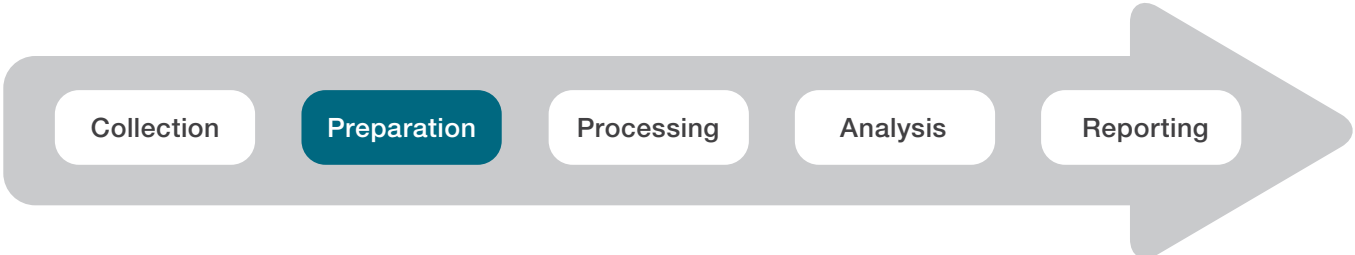


Centrifuge selection

Based on application

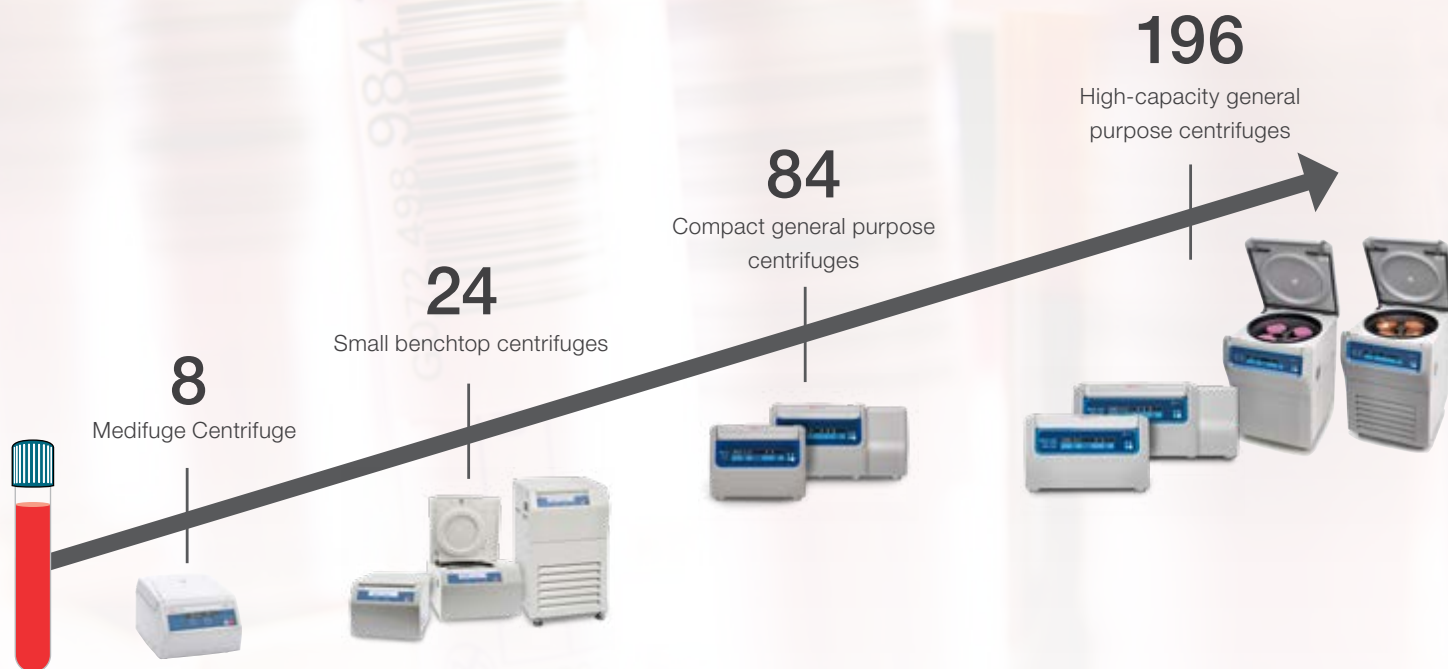
Discover our range of Thermo Scientific centrifuge solutions for sample preparation across most common clinical applications.

Thermo Scientific centrifuges	Clinical chemistry/hematology	Pathology	Clinical microbiology		Molecular biology	Hematology	Clinical immunology		Pediatrics
	RBC/coagulation studies	Urinalysis and platelet poor plasma	TB Sputum	<i>Chlamydia trachomatis</i>	DNA/RNA isolation	Hematocrit	Leucocytes	ELISA/RIA	Blood analysis
 Microcentrifuges					•	•			
 Medifuge centrifuge	•	•		•					
 Small benchtop centrifuges	•	•	•	•	•	•	•	•	•
 Compact general purpose centrifuges	•	•	•	•	•		•	•	•
 High-capacity general purpose centrifuges	•	•	•	•	•		•	•	•



Centrifuge selection

Based on the capacity of 5/7 mL blood tubes per run



Blood banking centrifuges



Thermo Scientific™ Cryofuge™ and Sorvall™ BP 8 and 16 Centrifuges

Thermo Scientific Large Capacity Centrifuges provide medium to high throughput processing with a variety of swinging bucket rotors, so you can use your validated protocols to process a range of products in blood bags or tubes. Our products are certified in accordance with the (EU) 2017/745 Medical Device Regulation.

For regular- to medium-throughput blood processing needs, the Sorvall BP 8 / Cryofuge 8 centrifuge provides 6 x 550mL or 8 x 550mL blood bag capacity, utilizing the same bucket system. The Sorvall BP 16 / Cryofuge 16 centrifuge is designed for high-throughput blood processing with its 12 x 550mL capacity and is upgradeable to 16 x 550mL blood bags with the same bucket selections. Our large capacity centrifuges offer flexibility to meet your needs with a range of buckets and adapters to spin several types of tubes.

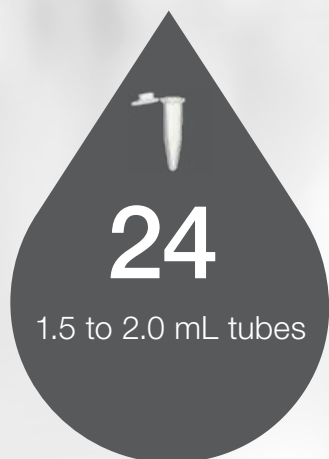
Microcentrifuges

Thermo Scientific™ Pico™/Fresco™, MicroCL and Sorvall™ Legend centrifuge series

Thermo Scientific 17 / 21 Microcentrifuges provide performance, versatility and convenience in a compact, easy-to-use format.

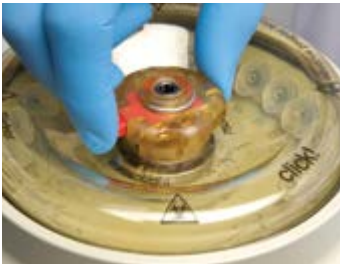
Small footprint with outstanding features, suited for molecular diagnostic and pediatric tests

- Two speed options, and both ventilated and refrigerated models available.
17 model: performance up to 17,000 x g with fast acceleration and deceleration.
21 model: performance up to 21,100 x g in as little as 12 seconds.
- Spin up to 24 micro or pediatric tubes in a single run with the standard rotor.
- Certified¹ Thermo Scientific™ ClickSeal™ Biocontainment Lids with transparent design for added safety.
- Easy operation with intuitive controls and fast one-click centrifuge lid closure.
- Refrigerated versions offer cooling from room temperature to set temperature in just 9 minutes.
- Lightweight rotors for fast acceleration.
- High performance engineered polymer rotors are designed for outstanding chemical resistance to help minimize corrosion from aggressive reagents.
- Quiet performance (<56 dBA ventilated and <50 dBA refrigerated) promotes a safe and reduced stress environment.



1. Certified by the National Institute for Health Protection, Porton Down, UK or TÜV NORD CERT GmbH, Germany

	Molecular biology	Hematology	Pediatrics
	DNA/RNA isolation	Hematocrit	Blood analysis
	Sample capacity (required adapter)		
Thermo Scientific™ Rotor	1.5/2 mL microtubes	Capillaries (1.75 x 75 mm max)	600 µL blood collection tubes (11 x 45 mm)
24x1.5/2.0 mL rotor	24 (Direct fit)		24 (Direct fit)
Hematocrit rotor	24 (Direct fit)		



Transparent ClickSeal biocontainment lids



Fast one-click centrifuge lid closure



Large, bright and easy-to-read display



Up to 21,100 x g



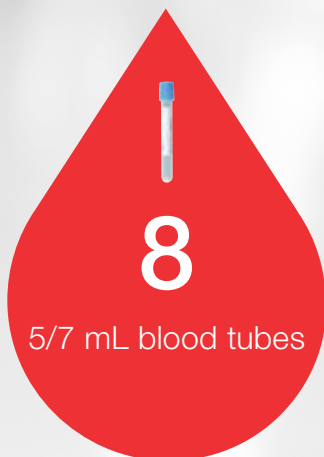
Certifications: UL, CE, RoHS, CSA, IVD, FDA class 1

Standards: IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1, EN ISO 13485.



Clinical centrifuge

Thermo Scientific™ Medifuge™ Clinical Centrifuge Series



The Medifuge small benchtop centrifuge fits in with its compact dimensions and stands out with the unique Thermo Scientific™ DualSpin™ Rotor, which features a 2-in-1 hybrid design. Easily change between fixed angle and swinging buckets using the same rotor. Four customizable programs allow you to quickly run routine protocols. Three selectable deceleration profiles, including brake-off option, are designed to optimize separation.

Optimize your workflow with the Medifuge small benchtop centrifuge

- Unique DualSpin rotor features hybrid design with interchangeable fixed angle and swinging buckets. It can accommodate 1.4 mL to 15 mL tubes with two spacer options.
- Large, brightly-lit display is easy to read, and fast one-click lid closure simplifies operation.
- Three selectable deceleration profiles including brake-off option are designed to optimize separation.
- Designed with the environment in mind: generates up to 62% less waste at end of life than prior models and 33% less waste than comparable alternatives.¹
- Compact design and quiet operation for use in clinical settings where space and noise considerations are important.
- Quiet operation at noise level less than 56 dBA.

Each Medifuge centrifuge comes as a package, including:

- Medifuge small benchtop centrifuge, DualSpin rotor body, fixed angle buckets (set of 8), swinging buckets (set of 8), green/short spacers (set of 8), and yellow/long spacers (set of 8).

1. Thermo Fisher Scientific Green Fact Sheet, November 2023: <https://assets.thermofisher.com/TFS-Assets/LPD/Flyers/medifuge-green-fact-sheet.pdf>

Application	Detail	Tube type	Volume	Diameter	Length	Fixed angle			Swinging bucket	
						Direct fit	Green spacer	Yellow spacer	Direct fit	Green spacer
BD™ Tubes										
Clinical chemistry/hematology	Blood analysis	BD CPT tube	4.0 mL	13 mm	100 mm	8			8	
		BD CPT tube	8.0 mL	16 mm	125 mm	8				
Pathology	Urinalysis	BD urine tube	4.0 mL	13 mm	75 mm			8		8
		BD urine tube	8.0 mL	16 mm	100 mm	8			8	
Clinical chemistry/hematology	Blood analysis	BD Vacutainer™ blood tube	2.0–4.5 mL	13 mm	75 mm			8		8
		BD Vacutainer blood tube	3.5–7.0 mL	13 mm	100 mm	8			8	
		BD Vacutainer blood tube	7.5–10.0 mL	16 mm	100 mm	8			8	
Greiner™ VACUETTE™ Tubes										
Clinical chemistry/hematology	Blood analysis	Greiner VACUETTE tube	2.0–4.0 mL	13 mm	75 mm			8		8
		Greiner VACUETTE tube	5.0–6.0 mL	13 mm	100 mm	8			8	
		Greiner VACUETTE tube	8.0–9.0 mL	16 mm	100 mm	8			8	
Sarstedt™ Monovette™ Tubes										
Clinical chemistry/hematology	Blood analysis	Sarstedt S-Monovette blood tube	1.2–1.4 mL	8 mm	66 mm			8		8
		Sarstedt S-Monovette blood tube	2.6–4.3 mL	13 mm	65 mm			8		8
		Sarstedt S-Monovette blood tube	2.7–3.0 mL	11 mm	66 mm			8		8
		Sarstedt S-Monovette blood tube	2.7–4.3 mL	13 mm	75 mm			8		8
		Sarstedt S-Monovette blood tube	4.0–5.0 mL	15 mm	75 mm			8		8
		Sarstedt S-Monovette blood tube	4.5–5.0 mL	11 mm	92 mm	8			8	
		Sarstedt S-Monovette blood tube	4.9 mL	13 mm	90 mm	8			8	
		Sarstedt S-Monovette blood tube	7.5–8.2 mL	15 mm	92 mm		8		8	
		Sarstedt S-Monovette blood tube	9.0–10.0 mL	16 mm	92 mm		8		8	
Pathology	Urinalysis	Sarstedt V-Monovette urine tube	4.0 mL	13 mm	75 mm			8		8
		Sarstedt V-Monovette urine tube (round base)	6.0 mL	13 mm	100 mm	8			8	
		Sarstedt V-Monovette urine tube (round base)	9.5 mL	15 mm	100 mm	8				
		Sarstedt V-Monovette urine tube (conical base)	9.5 mL	15 mm	100 mm				8	
		Sarstedt V-Monovette urine tube (round base)	10.0 mL	15 mm	100 mm				8	
		Sarstedt V-Monovette urine tube (conical base)	10.0 mL	15 mm	100 mm	8				
Other tubes										
Clinical chemistry/hematology & pathology	Blood analysis / urinalysis	Blood/Urine tube	4.0–7.0 mL	16 mm	75 mm			8		8
Clinical microbiology	<i>Chlamydia trachomatis</i>	Shell vials	4.0 mL	15 mm	47 mm	8				8



Large, brightly-lit display



Fast one-click centrifuge lid closure



DualSpin rotor with fixed angle buckets



DualSpin rotor with swinging buckets

Certifications: UL, CE, RoHS, CSA, IVD, FDA class 1

Standards: IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1, EN ISO 13485.



Small bench centrifuges

Thermo Scientific™ Sorvall™ ST8, Megafuge™ 8 and SL8 Centrifuges



Meet clinical and research protocol needs with the Thermo Scientific small benchtop centrifuge series, designed for effective and efficient processing of clinical samples, including platelet-poor plasma tests. Ventilated and refrigerated models are available, as well as a floor-standing option (Sorvall ST8FR centrifuge). These centrifuges provide exceptional capacity in a compact design with a smart, simple interface and the flexibility to support numerous applications.

Innovative technologies:

- Secure, push-button Auto-Lock rotor exchange in as little as three seconds delivers trouble-free rotor installation and removal and clear chamber access for cleaning convenience.
- Biocontainment sealing options, including certified¹ ClickSeal biocontainment lids, offer glove-friendly, one-handed operation.
- Maximized swing-out capacity up to 8 x 50 mL conical tubes, 24 x 5/7 mL blood tubes, microplates and microtubes, all in one versatile centrifuge.
- Fixed angle flexibility to spin 50 mL conical tubes at over 12,000 x g or a wide range of microtubes at speeds up to 30,279 x g.
- Run platelet-poor plasma tests in 1 minute with the Thermo Scientific™ HIGHConic™ rotor.

User-friendly performance:

- Low noise levels, including just 52 dBA at performance of 17,850 rpm/30,279 x g (with Sorvall ST8R centrifuge).
- One-touch operation with pre-saved protocols.
- Highly visible backlit display offers easy reading of parameters across the lab.
- Glove- and detergent-friendly user interface.
- Multilingual instructions offered in English, Dutch, French, German, Italian, Russian and Spanish on programming, run conditions, alerts and service messages.

1. Certified by the National Institute for Health Protection, Porton Down, UK or TÜV NORD CERT GmbH, Germany

Thermo Scientific rotor	Clinical chemistry/hematology		Pathology	Clinical microbiology		Molecular biology	Hematology	Clinical immunology		Pediatrics	
	Blood analysis		Urinalysis	TB Sputum	<i>Chlamydia trachomatis</i>	DNA/RNA Isolation	Hematocrit	Leucocytes	ELISA/RIA	Blood analysis	
	Sample capacity (required adapter)										
Tube type	5/7 mL blood collection tubes (13 x 75/100 mm)	10 mL blood collection tubes (16 x 100 mm)	15 mL blood collection tubes (16 x 125 mm)	14 mL urine or 15 mL conical tubes	50 mL conical tubes, individually sealed	Shell vials (15 x 47 mm)	1.5/2 mL microtubes	Capillaries (1.75 x 75 mm max)	50 mL conical tubes	Standard microplates	600 µL blood collection tubes (11 x 45 mm)
TX-150 rotor	24 (75005739)	16 (75003504)		16 (75005738)		16⁴ (75003504)	40 (75005743)		4 (75005736) 8 (75005703)		40 (75005743)
TX-100/ TX-100S rotor	16/8 (11172596) 16/8 (11172595)	16/8 (Direct fit)		16/8 (11203666)		16/8 (75008818)	16/8 (11172288)				16/8 (11172288)
8x50 sealed rotor	8 (75005805)	8 (75005804)			8 (Direct fit)	8³ (75005804)					16 (75005806)
CLINIConic™ rotor	30 (11172595) 30 (11172596)	30 (75003702)	30 (Direct fit)	30 (Direct fit)		16/8 (75008818)					
HIGHConic™ III rotor	6 (75005805)	6 (75005804)	6 (75005803)	6 (75005808)		6⁴ (75005803)	12 (75005807)		6 (Direct fit)		12 (75005807)
M-10 rotor										4 (2x2) (Direct fit)	
MicroClick 48x2 rotor							48 (Direct fit)				48 (Direct fit)
MicroClick 30x2 rotor							30 (Direct fit)				30 (Direct fit)
MicroClick 24x2 rotor							24 (Direct fit)				24 (Direct fit)
Hematocrit rotor								24 (Direct fit)			



Auto-Lock rotor exchange



ClickSeal biocontainment lids



User-friendly controls



Floor model option

Certifications: UL, CE, RoHS, CSA, IVD, FDA class 1

Standards: IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1, EN ISO 13485.



Compact general purpose

Thermo Scientific™ Sorvall™ ST1 Plus, Megafuge™ ST1 Plus and SL1 Plus Centrifuges



Thermo Scientific ST1/SL1 (ventilated) and ST1R/SL1R (refrigerated) Plus Centrifuges come standard with an easy-to-use keypad and high contrast LCD display. Quickly and securely swap between 14 unique rotor options with the tool-less Auto-Lock rotor exchange. This compact centrifuge has a capacity up to 1.6 L and can spin up to 84 x 5/7 mL blood tubes and 16 x 50 mL conical tubes. The centrifuge series is available as IVD certified and FDA class 1 device listed.

Easy to use:

- Intuitive controls help simplify operation and provide detailed information on a wide range of operating parameters.
- Motorized lid latch enables one finger downward motion for easy closing and locking of centrifuge lid, even on tall benches.

Auto-Lock III rotor system:

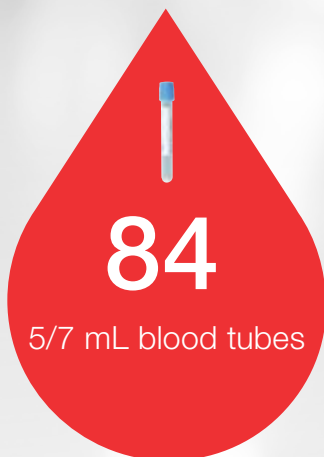
- Secure locking system allows easy push-button installation and exchange of rotors.
- System helps save time when switching between applications.
- Easy access to rotor chamber offers quick cleaning and supports centrifuge maintenance.

ClickSeal biocontainment lids:

- Biocontainment sealing options¹ for glove-friendly, one-handed open/close capability are ergonomically designed for both right and left-handed operations.
- Audible and visual closure cues enhance safety and security.

Thermo Scientific™ SMARTSpin™ Technology:

- Imbalance technology optimizes safety and helps maximize acceleration, braking and residual load imbalance for each rotor and bucket option.
- Technology optimizes safety and improves separations.



1. Certified by the National Institute for Health Protection, Porton Down, UK or TÜV NORD CERT GmbH, Germany

Thermo Scientific rotor	Clinical chemistry/hematology		Pathology	Clinical microbiology		Molecular biology	Clinical immunology		Pediatrics		
	Blood analysis		Urinalysis	TB Sputum	<i>Chlamydia trachomatis</i>	DNA/RNA isolation	Leucocytes	ELISA/RIA	Blood analysis		
	Sample capacity (required adapter)										
Tube type	5/7 mL blood collection tubes (13 x 75/100 mm)	10 mL blood collection tubes (16 x 100 mm)	15 mL blood collection tubes (16 x 125 mm)	14 mL urine or 15 mL conical tubes	15 mL conical tubes	50 mL conical tubes, individually sealed	Shell vials (15 x 47 mm)	1.5/2 mL microtubes	50 mL conical tubes	Standard microplates	600 µL blood collection tubes (11 x 45 mm)
TX-400 rotor	76 (75003680) 64 (75003825)	56 (75003681)	16 (75003794)	28 (75003798)			40 ³ (75003704)	136 (75003700)	16 (75003683)		136 (75003700)
BIOShield 720 rotor	48 (75003821)	48 (75003701)		24 (75003678)			48 (75003701)	160 (75003823)	8 (75003677)		160 (75003823)
TX-200 rotor	32 (75003785)	28 (75003808)		8 (75003807)			28 (75003808)	48 (75003812)	4 (75003803)		48 (75003812)
M-20 rotor										6 (2x3) (Direct fit)	
8 x 50 sealed rotor					8 (75005808)	8 (Direct fit)					
Microliter 48x2 rotor								48 (Direct fit)			48 (Direct fit)
MicroClick 30x2 rotor								30 (Direct fit)			30 (Direct fit)
H-Flex™ rotor	84 (75003306)	66 (75003305)		36 (75003304)					16 (75003303)	10 (2x5) (75003307)	

Space-saving design:

- Compact dimensions optimize work area and ergonomic height and curved design help ensure easy sample loading and unloading and simplified cleaning.

Energy efficient:

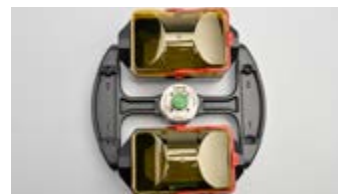
- System offers up to 40% energy consumption savings on industry standard protocols, such as standard blood separation or conical tubes processing.



Auto-Lock rotor exchange



ClickSeal biocontainment lids



H-Flex rotor for up to 84x 5/7 mL blood tubes



BIOShield 720 rotor for up to 160x 1.5/2mL microtubes

Certifications²: UL, CE, RoHS, CSA, IVD, FDA class 1

Standards: IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1, EN ISO 13485.



2. Cat. No. 75009230, 75009271, 75009270, 75009000, 75009030, 75009031, 75009240, 75009383, 75009381, 75009380

High-capacity general purpose

Thermo Scientific™ Sorvall™ ST4 Plus, Megafuge ST4 Plus and SL4 Plus Centrifuges



The Thermo Scientific General Purpose ST4/ST4R/ST4F/ST4FR Plus and SL4/SL4R/SL4F/SL4FR Centrifuges come standard with an easy-to-use keypad and high contrast LCD display. This high-capacity (up to 4L) and versatile unit offers consistent performance and is excellent for routine applications. The centrifuge series is available as IVD certified and FDA class 1 device listed.

Easy to use:

- Intuitive controls simplify operation and provide detailed information on a wide range of operating parameters.
- Modern industrial design supports continuous improvement in rotor loading ergonomics, user safety and current needed certifications.
- Motorized lid latch enables one finger downward motion for easy closing and locking of centrifuge lid, even on tall benches.

Auto-Lock III rotor system:

- Secure locking system allows easy push-button installation and exchange of rotors.
- System helps save time when switching between applications.
- Easy access to rotor chamber offers quick cleaning and supports centrifuge maintenance.

ClickSeal biocontainment lids:

- Biocontainment sealing options¹ for glove-friendly, one-handed open/close capability are ergonomically designed for both right and left-handed operations.
- Audible and visual closure cues enhance safety and security.

SMARTSpin technology:

- Advanced rotor management system maximizes acceleration, braking and residual load imbalance for each rotor and bucket option.
- Technology optimizes safety and improves separations.

1. Certified by the National Institute for Health Protection, Porton Down, UK or TÜV NORD CERT GmbH, Germany

		Clinical chemistry/hematology			Pathology	Clinical microbiology		Molecular biology	Clinical immunology		Pediatrics
		Blood analysis			Urinalysis	TB Sputum	<i>Chlamydia trachomatis</i>	DNA/RNA isolation	Leucocytes	ELISA/RIA	Blood analysis
		Sample capacity (required adapter)									
Thermo Scientific rotor	Tube type	5/7 mL blood collection tubes (13 x 75/100 mm)	10 mL blood collection tubes (15/16 x 100 mm)	15 mL blood collection tubes (16 x 125 mm)	14 mL urine or 15 mL conical tubes	50 mL conical tubes, individually sealed	Shell vials (15 x 47 mm)	1.5/2 mL microtubes	50 mL conical tubes	Standard microplates	600 µL blood collection tubes (11 x 45 mm)
TX-1000 rotor		196 (75003671)	100 (75003697)	76/92² (75003672)	96 (75007306)	20 (75004255)	148 (75003672)		40 (75003674)	24 (4x6) (75007303)	
		164 (75003709)	148 (75003672)								
TX-750 rotor		108 (75003723)	84 (75003719)	32 (75003719)	48 (75003718)	12 (75003714)	84 (75003719)	192 (75003733)	28 (75003638)	16 (4x4) (75003617)	192 (75003733)
		80 (75003768)	64 (75003767)		36 (75003759)		64 (75003767)	224 (75003770)	20 (75003685)		224 (75003770)
BIOShield™ 1000A rotor		80 (75003768)	64 (75003767)		36 (75003759)		64 (75003767)	224 (75003770)			224 (75003770)
HIGHPlate™ 6000 rotor										10 (2x5) (Direct fit)	
M-20 rotor										6 (2x3) (Direct fit)	
Microliter 48x2 rotor							48 (Direct fit)				48 (Direct fit)
MicroClick 30x2 rotor							30 (Direct fit)				30 (Direct fit)

Space-saving design:

- Compact dimensions help optimize work area, and ergonomic height and curved design help ensure easy sample loading and unloading and easy cleaning.
- Floor standing model includes lockable casters for easy storage for bench space constrained labs.



Auto-Lock rotor exchange



ClickSeal biocontainment lids

Energy efficient:

- System offers up to 40% energy consumption savings on industry standard protocols, such as standard blood separation or conical tubes processing.



TX-1000 rotor for up to 196x 5/7 mL blood tubes



BIOShield 1000A rotor for up to 224x 1.5/2mL microtubes

Certifications³: UL, CE, RoHS, CSA, IVD, FDA class 1

Standards: IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1, EN ISO 13485.



2. Without lid

3. Cat. No. 75016044, 75016063, 75016043, 75016080, 75016038, 75016060, 75016037, 75016079, 75009504, 75009503, 75009960, 75009961, 75009946, 75009962, 75009519, 75009618, 75009518, 75009511, 75009510, 75009509, 75009980, 75009981, 75009982, 75009983, 75009984, 75009024, 75009985, 75009526, 75009525, 75009624, 75009524, 75009971, 75009973, 75009527, 75009627, 75009512, 75009513, 75009528



Learn more at thermofisher.com/clinicalcentrifuges

The products mentioned in this document are IVD products used for clinical purposes. It is the customer's responsibility to ensure that the performance of the products are suitable for the customers' specific uses or applications.

© 2024 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. BD and BD Vacutainer are trademarks of BD (Becton, Dickinson and Company). Greiner is a trademark of Greiner. Vacuette is a trademark of C.A. Greiner & Söhne. Sarstedt is a trademark of Sarstedt, Walter DBA. Monovette is a trademark of Sarstedt, Inc. **EXT7039 0724**