



Centrifuges

SL 8 Compact Centrifuge Series

Fits in and stands out

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Small benchtop centrifuges for clinical and research applications

The Thermo Scientific™ SL 8 Compact Centrifuge Series is designed for clinical and research applications and provides exceptional capacity in a compact design. The centrifuges are available as ventilated or refrigerated models.

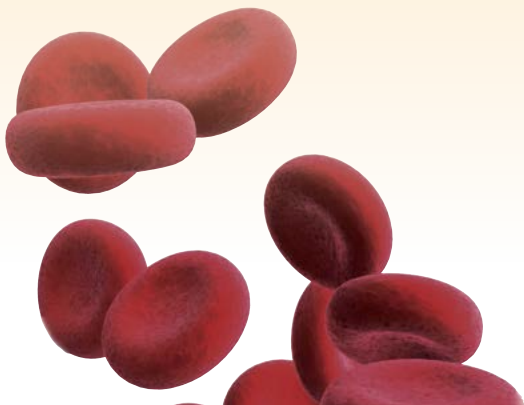


Fits in

- ➔ to **your space**, with its compact footprint. Ergonomic designs enhance flexibility in the lab.
- ➔ to **your applications**, accommodating multi-laboratory settings with 14 rotor options to adapt with evolving clinical and research needs, in both ventilated and refrigerated options.

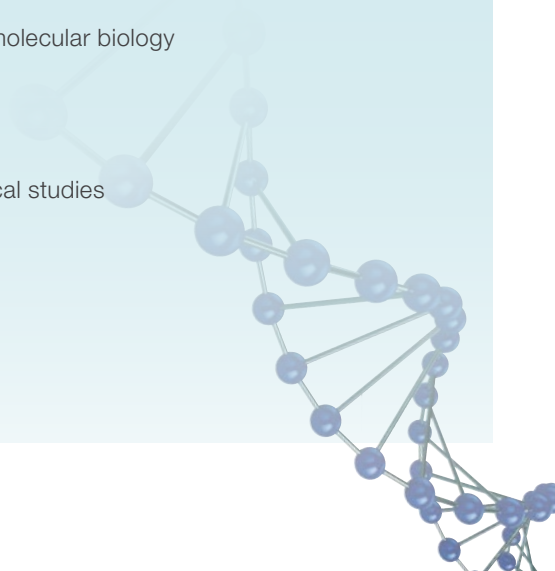
Clinical applications

- Clinical chemistry
- Clinical microbiology
- Hematology
- Immunology
- Clinical studies



Research applications

- Cellular biology
- Microbiology
- Genomics / molecular biology
- Proteomics
- Biochemistry
- Pharmaceutical studies





Stands out

- ➔ designed for **high safety, solid reliability** and **consistent results**.
- ➔ featuring **innovative Thermo Scientific™ technologies**
- ➔ anticipating and addressing your most pressing lab needs – even the ones you don't know you have yet.



Innovative technologies



Thermo Scientific™ Auto-Lock™ Rotor Exchange

Secure push-button application versatility and cleaning convenience



Thermo Scientific™ ClickSeal™ Biocontainment Lids

One-handed, certified¹ sample protection



Maximized swing-out capacity

Process 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

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

¹  Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK or TÜV NORD CERT GmbH, Germany



Simple solutions

Flexible processing

Secure, push-button **Auto-Lock** rotor exchange in as little as 3 seconds delivers:

- Trouble-free rotor installation and removal
 - No tools are required
 - No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications – from conical tubes to blood tubes, and from microtubes to microplates – and the flexibility to evolve with the changing needs of your laboratory

Optimize bench space with **maximized capacity**:

- 48 microtubes, 8 x 50 mL conical tubes or 4 microplates for research needs
- Micro-volume rotor portfolio supports 0.2, 0.25, 0.5, 1.5, 2.0, 5.0 mL microtubes and spin columns
- Clinical processing up to 24 x 5/7 mL blood tubes per run

Micro-volume rotor portfolio

Reliable quality

Safe operation

- Biocontainment sealing options, including certified¹ **ClickSeal** lids for glove-friendly, one-handed operation
- Manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability
- Low noise levels, including just 52 dBA at performance of 17,850 rpm/30,279 x g in refrigerated units, to ensure a peaceful laboratory
- Conforms to the latest clinical and safety standards, such as UL, CE and IVD²

¹  Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK or TÜV NORD CERT GmbH, Germany

² See full list of standards & certifications on page 14





Sample-ready User-friendly

- One-touch operation with pre-saved protocols
- Highly visible backlit display for easy reading of parameters across the lab
- Optional indicators at end of run, including automatic lid opening, full flashing display and adjustable audible signal
- Glove- and detergent-friendly
- Multilingual instructions—English, Dutch, French, German, Italian, Russian and Spanish—on programming, run conditions, alerts and service messages



Clinical applications

Outstanding capacity in a compact design
with a smart and simple interface










- Runs up to 24 x 5/7 mL blood tubes at a time in swinging bucket configuration
- Auto-Lock rotor exchange simplifies cleaning
- Conforms to the latest clinical and safety standards
- Platelet-poor plasma separation in only one minute



Expanded programming options

- Store up to 99 pre-saved protocols
- Alphanumeric program naming, of up to 12 characters, promotes correct program selection every time
- Program-only mode limits the control of the centrifuge to the set program and the control quadrant (Start, Stop, Pulse and Open), well suited for controlled environments

Rotors for clinical applications

Thermo Scientific™ Rotor	Description	Stand-out features	Performance	
			Ventilated	Refrigerated
TX-150 Swinging Bucket Rotor				
	Designed for a broad range of high-speed, high-capacity swing-out processing needs, with a capacity of 24 x 5/7 mL blood tubes per run and flexibility with a wide range of adapters.	Certified ¹ sample protection with ClickSeal biocontainment lids.	4,500 rpm 3,260 x g	4,500 rpm 3,260 x g
TX-100S/TX-100 Rotors				
	Dedicated for routine clinical samples processing.	Capacity of 16 tubes per run or spin 8 tubes with biocontainment sealing option.	4,500 rpm 3,260 x g	4,500 rpm 3,260 x g
HIGHConic III Rotor				
	High g-force fixed angle rotor for efficient sample separations.	Perform platelet poor plasma tests in as little as 1 minute.	8,700 rpm 10,155 x g	9,500 rpm 12,108 x g
8 x 50 mL Individually Sealed Fixed Angle Rotor				
	Designed for high-risk sample processing for a range of clinical and research tubes.	Individual sealed canisters for high-risk samples.	n/a	5,600 rpm 5,014 x g
CLINIConic Fixed Angle Rotor				
	Spin 30 blood tubes or 15 mL conicals in a fixed angle configuration with fast acceleration to optimize blood separation applications.	Auto-Lock rotor exchange for ultimate ease-of-use.	4,400 rpm 3,030 x g	4,400 rpm 3,030 x g
Hematocrit Rotor				
	Achieve red blood cell capillary separations.	Result reading chart provided.	13,300 rpm 16,810 x g	13,300 rpm 16,810 x g
M10 Swinging Bucket Rotor				
	Centrifuge 4 microplates or 2 midi-deepwell plates, ideally suited for quick spins. Spin up to 4 standard microplates with optional certified ¹ ClickSeal biocontainment lids.	Transportable microplate carriers, complemented by Auto-Lock rotor exchange.	4,400 rpm 2,576 x g	4,400 rpm 2,576 x g

 Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK or TÜV NORD CERT GmbH, Germany



Research applications

Innovative design supports multiple users and applications to stay one step ahead of your evolving research needs



- 8 x 50 mL cell culture tubes, 4 microplates, 48 microtubes, or 30 spin columns for research needs
- Auto-Lock rotor exchange for application flexibility — go from 50 mL tube to microplates to microtubes effortlessly



30,279 x g Performance

High-speed microliter performance at up to 30,279 x g enables

- quicker spins
- improved separations
- access to a wider range of applications while maintaining full swing-out rotor flexibility, combined with quick, safe Auto-Lock rotor exchange.



Rotors for research applications

Thermo Scientific rotor	Description	Stand-out features	Performance		
			Ventilated	Refrigerated	
TX-150 Swinging Bucket Rotor					
	Designed for a broad range of swing-out processing needs at high speed and high capacity with the flexibility of a wide range of adapters.	Dedicated bucket available for 8 conical tubes capacity or round buckets with certified ¹ ClickSeal biocontainment lids.	4,500 rpm 3,260 x g	4,500 rpm 3,260 x g	
M10 Swinging Bucket Rotor					
	Centrifuge 4 standard microplates or 2 deepwell plates. Spin up to 4 standard microplates with optional certified ¹ ClickSeal biocontainment lids. Non-shielded design for quick access to microplates.	Transportable microplate carriers, complemented by Auto-Lock rotor exchange.	4,400 rpm 2,576 x g	4,400 rpm 2,576 x g	
MT-12 Swinging Bucket Rotor					
	Design capable of spinning up to 12 x 1.5/2 mL microtubes and filtration columns, ideal for small-volume research applications.	Individual swinging bucket rotors for centralized pellets within tubes.	13,000 rpm 16,438 x g	13,000 rpm 16,438 x g	
HIGHConic III Fixed Angle Rotor					
	Process 6 x 50 mL tubes in fixed angle configuration and at RCF above 10,000 x g in certified ¹ sealed conditions.	45 degree fixed angle rotor ideal for cell pelleting using 50 mL or 15 mL conical tubes	8,700 rpm 10,155 x g	9,500 rpm 12,108 x g	
MicroClick 18 x 5 Fixed Angle Rotor					
	18-place capacity for 5.0 mL microtubes for high throughput and over 22,000 x g to reduce run times.	Lightweight and ergonomic ClickSeal biocontainment lid allows sample viewing.	n/a	14,000 rpm 22,351 x g	
Micro-Volume Fixed Angle Rotors					
	MicroClick 24 x 2	Capable of supporting micro-volume protocols, such as nucleic acid preparation, PCR reaction set-up and filtration columns, choose from the complete micro-volume rotor portfolio.	Run 24 x 2 mL samples at 30,279 x g.	16,000 rpm 24,328 x g	17,850 rpm 30,279 x g
	MicroClick 30 x 2		High-rim design of the MicroClick 30 x 2 rotor supports spin columns with open caps.	14,000 rpm 21,694 x g	14,000 rpm 21,694 x g
	Microliter 48 x 2	Maximize throughput with 48-place microliter rotor.	11,800 rpm 15,256 x g	12,900 rpm 18,233 x g	
	8 x 8 PCR Strip	Process up to 8 PCR strips with certified ¹ sample protection.	15,000 rpm 17,860 x g	15,000 rpm 17,860 x g	

Extensive rotor portfolio

For application flexibility



TX-150 Rotor



M10 Microplate Rotor

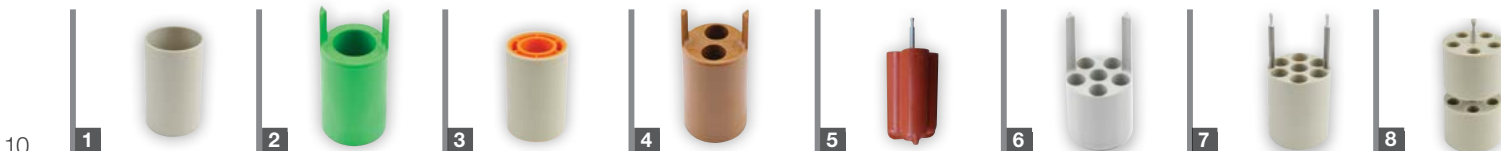


MT-12 Rotor

Versatile swinging bucket rotors

Description	Rotor capacity (places x volume, mL)	Max tube dimensions (Ø x L, mm)	Ventilated		Refrigerated		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
TX-150 Swinging Bucket Rotor, 90°, R_{max} 144 mm (order buckets separately)	4 x 145	50 x 110	4,500	3,260	4,500	3,260	75005701
50 mL Conical buckets (unsealed, no adapter needed) (set of 4)	8 x 50	29.5 x 120					75005703
Round buckets (set of 4)	4 x 145	50 x 100					75005702
ClickSeal biocontainment lids for round buckets (set of 4)							75005707
Replacement O-Rings for lids (set of 4)							75005724
Adapters for Conical Buckets (sets of 2)							
50 mL Conical tube	8 x 50	29.5 x 120					Direct fit
15 mL Conical tube	8 x 15	17 x 123					75005808
Adapters for Round Buckets (sets of 4)							
145 mL Bottle (75005734)	4 x 145	50 x 100					Direct fit
1 100 mL Round Bottom Open-Top Tube	4 x 100	45 x 117					75005735
1 50 mL round bottom tube ²	4 x 50	35 x 115					75005735
2 50 mL Conical or Skirted Tube	4 x 50	29.5 x 120					75005736
3 30 mL Sterilin™ Universal Container	4 x 30	25 x 120					75005744
4 15 mL Conical tube	8 x 15	17 x 122					75005737
4 11 mL IVF Tube	8 x 11	17 x 122					75005737
5 13 mL Urine tube	16 x 13	17 x 110					75003504
5 12 mL Blood collection tube (Greiner™)	16 x 12	17 x 110					75003504
5 10 mL Blood Collection or 15 mL Corex™/Kimble™ Tube	16 x 15	17 x 110					75003504
6 5/7mL mL Blood collection tube	24 x 5/7	13 x 110					75005739
7 3/5 mL Blood collection tube	28 x 3/5	13 x 110					75005740
7 3/5 mL Cryotube	28 x 3/5	13 x 110					75005740
8 1.5/2 mL Microtube (or Microtainer™ tube)	40 x 2	11 x 65					75005743
Rotor Packages							
Cell Culture Package INCLUDES: TX-150 Rotor (75005701), Round Buckets (75005702), Adapters for 50 mL conical tubes (75005736)	4 x 50	29.5 x 120					75005760
High Capacity Cell Culture Package INCLUDES: TX-150 Rotor (75005701), Conical Buckets (75005703), Adapters for 15 mL conical tubes (75005808, 4 pks)	8 x 50	18 x 124					75005761
Clinical Rotor Package INCLUDES: TX-150 Rotor (75005701), Round Buckets (75005702), ClickSeal biocontainment lids (75005707), Adapters for blood collection tubes: 5/7 mL (75005739) and 10 mL (75003504)	24 x 5/7	18 x 124					75005762
M10 Microplate Rotor, 90°, R_{max} 119 mm (order buckets separately)		n/a	4,400	2,576	4,400	2,576	75005706
Unsealed Buckets (set of 2)	4 Standard or 2 Deepwell	Height < 33 mm					75005723
Sealed Buckets (set of 2) R _{max} 109mm							75005721
MT-12 Swinging Bucket Rotor, 90°, R_{max} 87 mm	12 x 2	11 x 50	13,000	16,438	13,000	16,438	75005600
Replacement ClickSeal Biocontainment Lid (each)							75005730
Replacement Sealings (set of 2 with grease)							75005726

² Used together with adapter 75007542





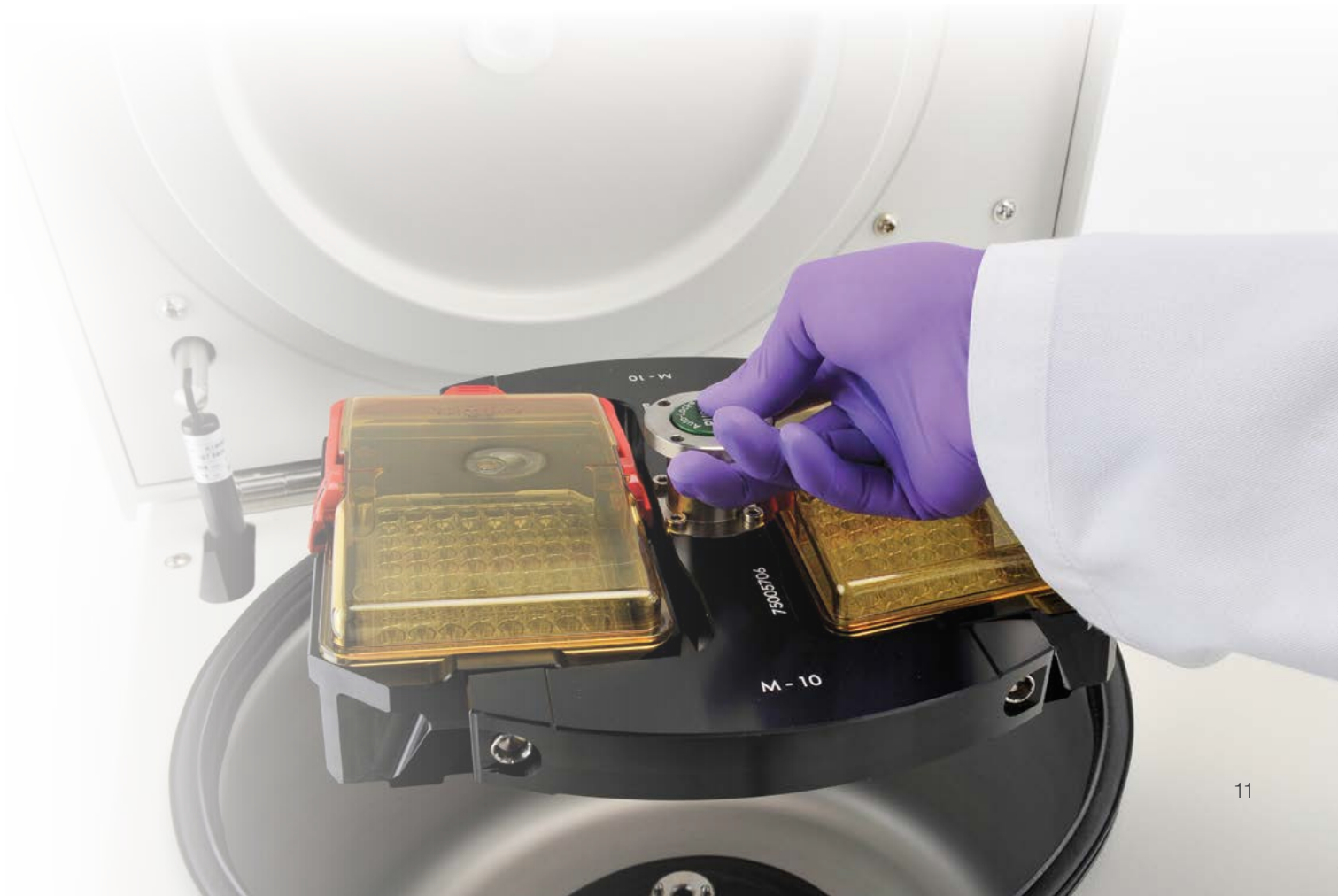
TX-100S Rotor with Sealed Carriers



TX-100 Rotor

Clinical swinging bucket rotors

Description	Rotor capacity (places x volume, mL)	Max tube dimensions (Ø x L, mm)	Ventilated		Refrigerated		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
TX-100S Clinical Swinging Bucket Rotor with Sealed Carriers, 90°, R_{max} 144 mm ⚠	8 x 15	17 x 106	4,500	3,260	4,500	3,260	75005704
TX-100 Clinical Swinging Bucket Rotor with Carriers, 90°, R_{max} 144 mm	16 x 15	17 x 121	4,500	3,260	4,500	3,260	75005705
Adapters for TX-100/TX-100S Clinical Rotors (each)							
13 mL Urine tube (TX-100 only)	16/8 x 13	17 x 110					Direct fit
10mL Blood collection tube	16/8 x 10	16 x 100					Direct fit
Sterilin Urine tube (TX-100 only)	16/8 x 13	16 x 110					75008817
Sarstedt Blood tube (TX-100 only)	16/8 x 10	16 x 75					75008818
5/7 mL BD Hemogard™/BD Vacutainer™ Tube	16/8 x 5/7	13 x 110					11172596
5 mL BD Hemogard tube	16/8 x 5	13 x 75					11172595
1.5/2 mL Microtube (or Microtainer™ tube)	16/8 x 1.5/2	10 x 41					11172288





HIGHConic III Rotor



8 x 50 mL Rotor



CLINIConic Rotor



MicroClick 18 x 5 Rotor

Fixed angle rotors

Description	Rotor capacity (places x volume, mL)	Max tube dimensions (Ø x L, mm)	Ventilated		Refrigerated		Cat. No.
			Max speed (rpm)	Max RCF (x g)	Max speed (rpm)	Max RCF (x g)	
HIGHConic III Rotor, 45°, R_{max} 120 mm ⚠	6 x 50	30 x 121	8,700	10,155	9,500	12,108	75005709
Replacement lid (each)							75005731
Replacement sealings (set of 2 with grease)							75003058
Adapters for HIGHConic III Rotor (set of 2)							
50 mL Round Bottom Tube and 50 mL Conical Bottom Tube	6 x 50	30 x 115					Direct fit
38 mL Round bottom tube	6 x 38	25.5 x 110					75005802
16 mL Round bottom tube	6 x 16	18 x 123					75005803
15 mL Conical tube	6 x 15	17 x 123					75005808
12 mL Round bottom tube	6 x 12	16 x 95					75005804
6.5 mL Round bottom tube	6 x 6.5	13.5 x 114					75005805
5 mL Conical microtube	6 x 5	17 x 100					75005770
3.5 mL Round bottom tube	12 x 3.5	11 x 100					75005806
1.5/2 mL Microtube	12 x 2	11 x 40					75005807
8 x 50 mL Individually Sealed Rotor 25°, R_{max} 143 mm ⚠	8 x 50 Sealed	30 x 121	n/a	n/a	5,600	5,014	75003694
Replacement biocontainment lids (set of 2)							75003011
Replacement O-ring kit							75003789
Adapters for 8 x 50 mL Individually Sealed Rotor (set of 2)							
50 mL Round bottom tube	6 x 50	30 x 115					Direct fit
38 mL Round bottom tube	6 x 38	25.5 x 110					75005802
16 mL Round bottom tube	6 x 16	18 x 123					75005803
15 mL Conical tube	6 x 15	17 x 123					75005808
12 mL Round bottom tube	6 x 12	16 x 95					75005804
6.5 mL Round bottom tube	6 x 6.5	13.5 x 114					75005805
5 mL Conical microtube	6 x 5	17 x 100					75005770
3.5 mL Round bottom tube	12 x 3.5	11 x 100					75005806
1.5/2 mL Microtube	12 x 2	11 x 40					75005807
CLINIConic Rotor, 37°, R_{max} 140 mm	30 x 15	16.5 x 131	4,400	3,030	4,400	3,030	75003623
Adapters for CLINIConic Rotor (each)							
15 mL Round/conical bottom tube	30 x 15	16.5 x 131					Direct fit
10 mL Round bottom tube	30 x 10	16.5 x 95					75008817
5/7 mL BD Hemogard/ BD Vacutainer tube	30 x 5/7	13 x 106					11172596
5 mL BD Hemogard tube	30 x 5	13 x 75					11172595
MicroClick 18 x 5 Rotor, R_{max} 102 mm	18 x 5	17 x 62	n/a	n/a	14,000	22,351	75005765
Sealing set							75005726
Rubber seal grease							76003500
Adapters for MicroClick 18 x 5 (set of 2) ⚠							
1.5/2 mL Microtube	18 x 1.5/2	11 x 45					75005756



Microliter 48 x 2 Rotor

MicroClick 30 x 2 Rotor

MicroClick 24 x 2 Rotor

8 x 8 PCR Strip Rotor

Hematocrit Rotor

Fixed angle rotors

Description	Rotor capacity (places x volume, mL)	Max tube dimensions (Ø x L, mm)	Ventilated		Refrigerated		Cat. No.
			Max speed (rpm)	Max RCF (x g)	Max speed (rpm)	Max RCF (x g)	
Microliter 48 x 2 Rotor, 45°, R_{max} 98 mm ⚠	48 x 1.5/2	11 x 45	11,800	15,256	12,900	18,233	75003602
Replacement biocontainment lid (each)							70904727
Replacement O-Ring for lid (each)							75003349
MicroClick 30 x 2 Rotor, 45°, R_{max} 99 mm ⚠	30 x 1.5/2	11 x 45	14,000	21,694	14,000	21,694	75005719
Replacement ClickSeal biocontainment lid (each)							75005730
Replacement O-Ring for lid (each)							75005726
MicroClick 24 x 2 Rotor, 45°, R_{max} 85 mm ⚠	24 x 1.5/2	11 x 45	16,000	24,328	17,850	30,279	75005715
Replacement ClickSeal biocontainment lid (each)							75005725
Replacement O-Ring for lid (each)							75003405
Adapters for Microliter 48 x 2, MicroClick 30 x 2 and MicroClick 24 x 2 Rotors (sets of 30)							
0.2 mL PCR tube	48/30/24 x 0.2	6.5 x 20					75005752
0.5 mL Microtube	48/30/24 x 0.5	8 x 44					75005753
0.25 mL Microtube	48/30/24 x 0.25	6 x 46					75005754
8 x 8 PCR Strip Rotor, 45°, R_{max} 71 mm	8 x 8 PCR strips	n/a	15,000	17,860	15,000	17,860	75005720
Replacement ClickSeal biocontainment lid (each)							75005730
Replacement O-Ring for lid (each)							75005726
Hematocrit Rotor, 90°, R_{max} 85 mm, includes linear scale	24 Capillaries	n/a	13,300	16,810	13,300	16,810	75005733
Capillaries (pack of 100)							76000923
Sealing kit							75000964
Replacement linear scale reading graph							76000938



SL 8 Centrifuges



Product specifications

Specifications		SL 8	SL 8R
Swing Bucket Rotors	Max Capacity	4 x 145 mL (with TX-150 rotor)	4 x 145 mL (with TX-150 rotor)
	Max Speed	4,500 rpm (with TX-150 rotor)	4,500 rpm (with TX-150 rotor)
	Min Speed	300 rpm (with TX-150 rotor)	300 rpm (with TX-150 rotor)
	Max RCF	3,260 x g (with TX-150 rotor)	3,260 x g (with TX-150 rotor)
Fixed Angle Rotors	Max Capacity	6 x 50 mL (with HIGHConic rotor)	6 x 50 mL (with HIGHConic rotor)
	Max Speed	16,000 rpm (with MicroClick 24 rotor)	17,850 rpm (with MicroClick 24 rotor)
	Min Speed	300 rpm (with MicroClick 24 rotor)	300 rpm (with MicroClick 24 rotor)
	Max RCF	24,328 x g (with MicroClick 24 rotor)	30,279 x g (with MicroClick 24 rotor)
Control System		Microprocessor	
Drive System		Direct, brushless induction drive	
Rotor Locking System		Auto-Lock rotor exchange	
Imbalance Detection System		Continuous vibration measurement, with rotor mass correction	
Programs		4 direct program buttons	3 direct program buttons, 96 additional programs accessible via folder
Pulse (Short) Run		Yes	
Acceleration/Deceleration Rates		2/2 (standard and soft)	
Centrifuge Chamber		Brushed stainless steel	
Timer Range		10 second to 99h 59min, continuous	
Temperature Range		n/a	-10°C to 40°C
Pre-Cooling Function		n/a	Yes, with direct button
Refrigeration System		n/a	CFC free
Sound Level		<58 dBA (with TX-150 rotor) <61 dBA (with MicroClick 24 rotor)	<56 dBA with all rotors <52 dBA (with MicroClick 24 rotor)
Other Features		Certified ¹ ClickSeal biocontainment lids Multilingual selection : English, Dutch, French, German, Italian, Russian and Spanish	
Max Power Consumption		310 W	750 W
Dimensions	Height (lid open)	67 cm (26.8 in)	70 cm (27.5 in)
	Height (lid closed)	31 cm (12.2 in)	32 cm (12.6 in)
	Width	37 cm (14.6 in)	46 cm (18.1 in)
	Depth	48 cm (18.9 in)	67 cm (26.4 in)
Weight		35 kg (77 lb)	71 kg (156 lb)
Standards & Certifications	Standards	IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1	
	Certifications	UL Listed, CE marked, IVD compliant, Certified biocontainment ¹	

Ordering information

Product	Cat. No.
SL 8 centrifuge, ventilated, 120 V, 60 Hz	75007220
SL 8 centrifuge, ventilated, 230 V, 50/60 Hz	75007221
SL 8R centrifuge, refrigerated, 120 V, 60 Hz	75007223
SL 8R centrifuge, refrigerated, 230 V, 50/60 Hz	75007224

¹ Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK or TÜV NORD CERT GmbH, Germany

The Project was defined for JQC, Regulation 862.2050 – Clinical Centrifuges





Learn more at thermofisher.com/centrifuges

Laboratory centrifuges contain fluorinated greenhouse gases in hermetically sealed equipment.

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.

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