



NEW! Thermo Scientific SL 16
and SL 40 Centrifuge Series

*Unmatched capacity, ergonomics and
value for routine processing needs*

Thermo Scientific SL Series

Global Leader in Quality and Reliability

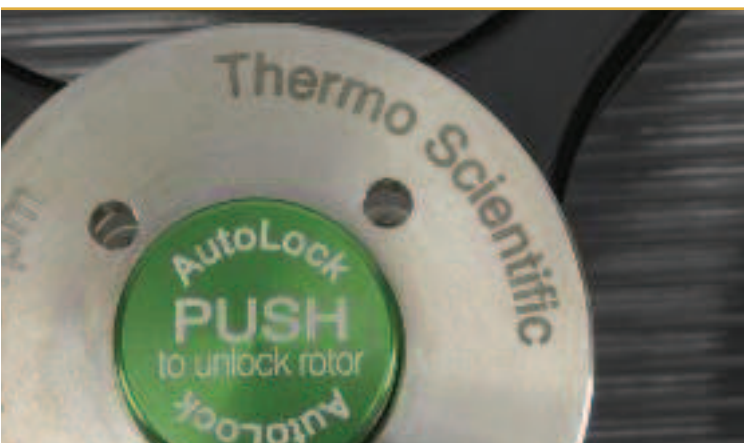
For more than 100 years, Thermo Scientific centrifuges have delivered outstanding performance and reliability in the lab. From basic benchtop instruments to advanced floor models, we take pride in manufacturing centrifuges that offer exceptional quality for consistent results year after year.

Thermo Scientific SL 16 and SL 40 Centrifuge Series

Introducing the new Thermo Scientific SL general purpose centrifuge series, including the 4x400 ml SL 16 and 4x750 ml SL 40 centrifuges. Our centrifuge series provides industry-leading capacity and ergonomics at an exceptional value for everyday sample preparation, including clinical protocols, cell culture applications, microplate processing and a variety of separation needs.

Unparalleled productivity and throughput: Process from 4 to 40 x 50 ml conical tubes or from 32 to 196 blood tubes with our extensive selection of biocontainment rotor solutions, all requiring minimum bench space.

Exceptional ergonomics: With our patented innovations, achieve safe, simple and comfortable daily operation at a working height of only 31 cm/ 12.4 in.



Breakthrough Thermo Scientific Technologies

Auto-Lock® III Rotor System

Secure locking system delivers:

- > Installation and exchange of rotors with just the push of a button for quick switch between applications
- > Easy chamber access enables cleaning convenience, reducing contamination risk and leading to improved research and a healthier working environment

ClickSeal® Bucket Sealing System

Innovative biocontainment solution provides:

- > Simple operation eliminating screw caps and complicated clips
- > Glove-friendly, one-handed open/close capability
- > Biocontainment certification by CAMR* in Porton Down, UK
- > Polyetherimide (PEI) sealing covers with high chemical resistance and excellent thermal properties

* CAMR is now incorporated within the UK Health Protection Agency (HPA)

SMARTSpin® Technology

- > Advanced rotor management system optimizes acceleration, braking and residual load imbalance for each rotor and bucket option, maximizing safety and improving separation particularly in pelleting applications



Exceptional Capacity Boosts Productivity

- >> Our SL 16 and SL 40 centrifuge series are available in both ventilated and refrigerated units, ideal for a range of routine applications and temperature-sensitive sample processing with control between -10°C and +40°C.

Motorized Lid Latch

- > One finger downward motion for easiest closing and locking - even on tall benches
- > Optional automatic lid opening at end of run

Compact, Comfortable Design

- > Exceptional capability in compact dimensions maximizes workspace
- > Ergonomic height and curved design ensure comfortable loading and unloading of samples and cleaning of the unit

Industry-Leading Energy Efficiency

- > Up to 40% energy consumption savings* on industry standard protocols, such as standard blood separation or conical tubes processing
- > Extended tubes capacity significantly reduces the number of runs in high throughput labs
- > Power saving option optimizes energy usage

* Based on internal benchmark data

Intuitive Controls Simplify Operation

➤➤ The SL centrifuge series features easy-to-use controls with detailed information on a wide range of operating parameters and processing status.



Dedicated Program Keys

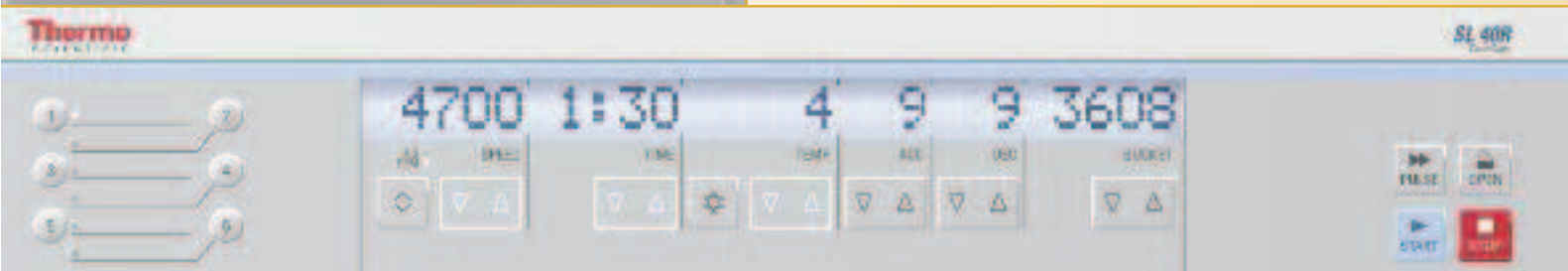
Immediate storage and access to your most frequently used programs with unique writing area for naming programs

Accessible Programming

Easily adjust speed, time and temperature, even during the run

Easy to Read and Use

- > Highly visible, backlit display for clear reading of parameters from across the lab
- > Multilingual instructions, including English, German, French, Spanish and Italian, on programming, run conditions, alerts and service messages
- > Glove- and detergent-friendly panel



Program Keys

Speed Control:

Immediate toggle between RCF and speed control up to 25,830 x g or 15200 rpm

Temp

(refrigerated unit)

Control temperatures between -10°C and +40°C

Pre-Temp:

(refrigerated unit)

Achieve 4°C from ambient 23°C in 15 minutes *

**with Thermo Scientific
BIOLiner rotor*

Accel/Decel:

Choice of 9 acceleration and 10 deceleration rates

Bucket:

Quickly adjust rotor parameters for accurate RCF calculation

Pulse:

Ideal for short runs

Open:

Motorized latch with optional automatic opening



Thermo Scientific Benchtop Centrifuges

Providing outstanding performance, unique safety features and a broad array of rotors and accessories, Thermo Scientific benchtop centrifuge solutions deliver the capabilities to accelerate your preparation process.

For micro-volume protocols, our Thermo Scientific MicroCL 17 and 21 microcentrifuges provide power, versatility and convenience, from the intuitive controls to the simple ClickSeal biocontainment lid.

The Thermo Scientific CL10 centrifuge is the perfect solution for your low-speed clinical applications, enabling reliable separations quickly and safely in a compact footprint.

Thermo Scientific Cell Culture Excellence

Essential products for the cell culture laboratory



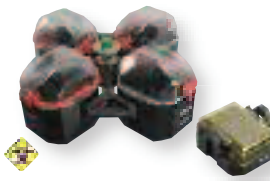
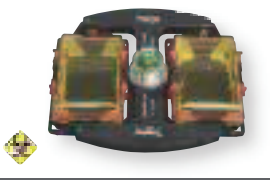
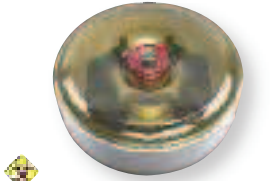


Our comprehensive portfolio includes advanced tools designed to help you achieve excellence at every stage of your cell culture process – from growth and passage to culture and experimentation through characterization, analysis and storage.

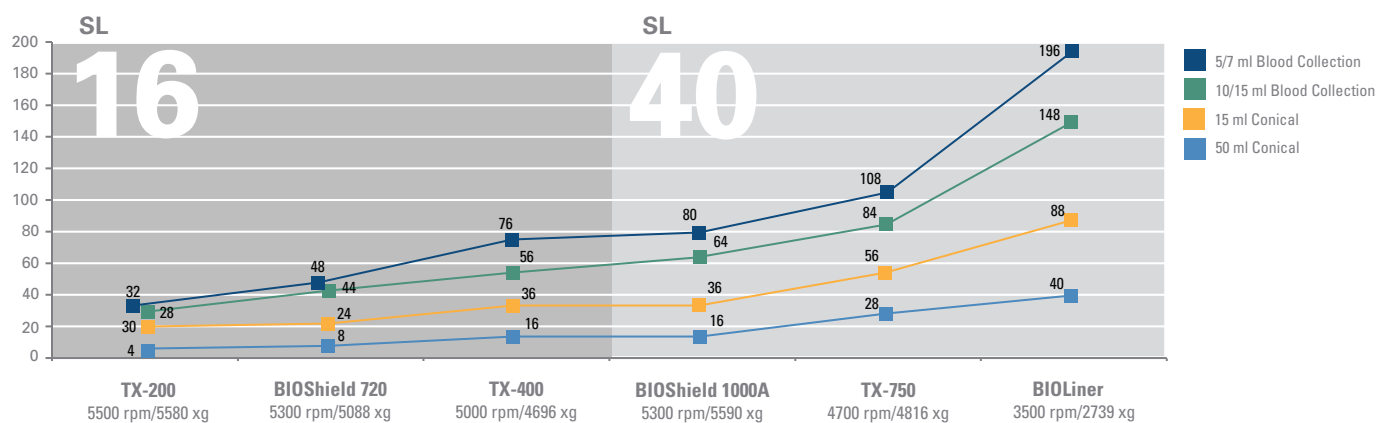
To learn about our full array of cell culture products and services, go to: www.thermo.com/cellculture





Incredible Capacity and Productivity

Our SL 16 and SL 40 centrifuge series feature a wide range of rotors to meet your daily, routine processing requirements.

Swinging Bucket Rotors		SL 16	SL 40
	TX-200 and TX-400 <i>Maximum flexibility</i> Designed for a broad range of laboratory throughput needs, with a capacity range of 32 to 76 blood tubes and up to 16 conical tubes in a single run, for the highest configuration flexibility on the market.	✓	
	TX-750 <i>Outstanding versatility</i> Delivers maximum flexibility at 4700 rpm and features a choice of round or rectangular buckets with multiple adapters as well as microplate carriers.		✓
	BIOLiner® <i>Exceptional capacity</i> Significantly improves productivity – process over 40% more 50 ml conical tubes or 100% more blood tubes with biocontainment sealing per run than with competitive models. Certified sealed microplate carriers expand application options.		✓
	M-20 <i>Compact processing</i> Centrifuges up to 6 microplates in certified sealed conditions with transportable carriers and the versatility of Auto-Lock rotor installation.	✓	
	BIOShield® 720 and BIOShield 1000A <i>Excellent performance</i> Runs frequently used tubes above 7000 x g with the confidence and simplicity of a single, certified biosafety lid.	✓ BIOShield 720	✓ BIOShield 1000A

Swinging Bucket Rotors Capacity



Fixed Angle Rotors		SL 16	SL 40
	<p>Fiberlite™ F15-6x100</p> <p>Durable design for general purpose pelleting of organelles, density gradients and various protocols requiring angle centrifugation of disposable conical tubes up to 18,516 x g.</p>	✓	✓
	<p>HIGHConic® II</p> <p>Process 6 x 94 ml tubes at up to 10178 x g in certified sealed conditions.</p>	✓	✓
	<p>CLINIConic®</p> <p>Spin 30 x 15 ml round or conical tubes up to 5000 x g and ensure acceleration and throughput for cell culture and blood separation applications.</p>	✓	
	<p>8x50 Sealed</p> <p>Ideal for TB sputum applications and other high risk samples, centrifuge 8 conical tubes up to 6700 rpm in individually sealed vessels, which can be prepared remotely, with rapid acceleration and processing times.</p>	✓	
	<p>Micro-Volume Rotors</p> <p><i>Fiberlite F21-48x2, Microliter 30x2, Microliter 48x2</i></p> <p>Perfect blend of capabilities to support micro-volume protocols, such as nucleic acid or protein lysate preparation and PCR reaction set-up. With relative centrifugal forces up to 25700 x g and Auto-Lock rotor exchange, transform your general purpose unit into a microcentrifuge in less than 3 seconds!</p> <p><i>*Microliter 30x2 and Microliter 48x2 only</i></p>	✓ 30x2	✓ F21-48x2 48x2

Thermo Scientific Fiberlite Rotors

Setting New Performance Standards for Benchtop Processing

Our carbon fiber rotors maximize the performance of the SL centrifuge series with versatility, speed and robust, corrosion-free design.

Industry-Leading Performance

Increase performance, with higher G-force and faster speeds, at benchtop value.

Exceptional Security and Value for Improved Safety

- Resistance to corrosion protects against misuse and damage
- Safe, continuous operation for lifetime use of rotor
- Lightweight for easy handling and loading within the laboratory




Biocontainment certified by CAMR, HPA, Porton Down, UK.



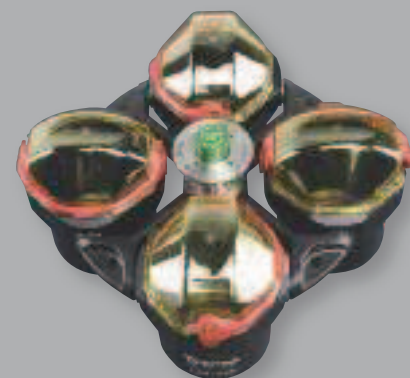
TX-200
Swinging Bucket Rotor¹

Thermo Scientific Rotors and Adapters

Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	SL 16/16R		SL 40/40R		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
TX-200 Swinging Bucket Rotor							75003658
Round Buckets (set of 4), 90°, R_{max} 165 mm	4 x 180 ml		5500	5580	n/a	n/a	75003659
 ClickSeal Biocontainment Lids for Round Buckets (set of 4)							75003660
Replacement O-rings for Lids (set of 4)							75003687
Adapters for Round Buckets (sets of 4)							
180 ml Polypropylene Screw Cap Bottle (75003800, pkg of 12)	4 x 180 ml	56.5 x 123					No adapter needed
1 100 ml Round Bottom Open-Top Tube	4 x 100 ml	48 x 122					75003801
2 50 ml DIN Round Bottom Tube	4 x 50 ml	35 x 126					75003802
3 50 ml Round Bottom Tube	4 x 50 ml	32 x 126					75003815
4 50 ml Conical Tube	4 x 50 ml	29.5 x 126					75003803
5 25 ml Universal Tube	4 x 25 ml	25.5 x 118					75003804
6 25 ml DIN Round/Flat Bottom Tube	8 x 25 ml	25 x 118					75003805
7 20 ml Round Bottom Tube	12 x 25 ml	22 x 125					75003806
8 15 ml Conical Tube	20 x 15 ml	16.5 x 121					75003771
9 15 ml Blood Collection Tube	16 x 15 ml	17 x 121					75003809
10 14 ml Conical Urine Tube	8 x 14 ml	17 x 114					75003807
11 10 ml Blood Collection or 15 ml Corex®/Kimble® Tube	28 x 10/15 ml	17 x 121					75003808
12 5/7 ml Blood Collection Tube	32 x 5/7 ml	13 x 122					75003785
13 5/7 ml Round Bottom Open-Top Tube	36 x 5/7 ml	13 x 118					75003810
14 3/5 ml RIA or Round Bottom Tube (without cap)	48 x 3/5 ml	12 x 124					75003811
15 1.5/2 ml Conical Microtube	48 x 2 ml	11 x 45					75003812

¹ Buckets and lids sold separately

² 120 V ventilated centrifuge



TX-400
Swinging Bucket Rotor¹

Thermo Scientific Rotors and Adapters

Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	SL 16/16R		SL 40/40R		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
TX-400 Swinging Bucket Rotor							75003629
Round Buckets (set of 4), 90°, R_{max} 168 mm	4 x 400 ml		5000	4696	n/a	n/a	75003655
ClickSeal Biocontainment Lids for Round Buckets (set of 4)							75003656
Replacement O-rings for Lids (set of 4)							75003657
Adapters for Round Buckets (sets of 4)							
400 ml Polypropylene Bio-Bottle (75007585, pkg of 12)	4 x 400 ml	80 x 125					No adapter needed
16 250 ml Thermo Scientific Nalgene Oak Ridge Bottle	4 x 250 ml	62 x 125					75003788
16 200 ml Thermo Scientific Nunc Conical Bottle	4 x 200 ml	62 x 125					75003788
							+ Nunc no. 377585
16 225 ml and 175 ml BD Falcon™ Conical Bottle	4 x 175 ml	62 x 125					75003788
							+ BD no. 352090
17 100 ml Round Bottom Open-Top Tube	4 x 100 ml	45 x 117					75003708
18 50 ml DIN Round Bottom Tube	12 x 50 ml	34.5 x 105					75003707
19 50 ml Round Bottom Tube	16 x 50 ml	28.5 x 114					75003799
20 50 ml Conical Tube	16 x 50 ml	29.5 x 116					75003683
21 30/25 ml DIN Round/Flat Bottom Tube	20 x 30 ml	25.5 x 108					75003703
22 25 ml Universal Tube	12 x 25 ml	25 x 110					75003706
23 15 ml Conical Tube	36 x 15 ml	16.5 x 121					75003682
24 15 ml Blood Collection Tube (17 x 125 mm)	16 x 15 ml	15.5 x 131					75003794
25 15 ml Round Bottom Tube (Sarstedt®)	40 x 15 ml	17 x 105					75003704
26 14 ml Conical Urine Tube	28 x 14 ml	17 x 112					75003798
27 10 ml Blood Collection or 15 ml Corex/Kimble Tube	56 x 10/15 ml	15 x 113					75003681
28 5/7 ml Blood Collection Tube	76 x 5/7 ml	12 x 110					75003680
29 3 ml RIA or Round Bottom Tube (without cap)	76 x 3/5 ml	11 x 110					75003793
30 1.5/2 ml Conical Microtube	136 x 2 ml	11 x 45					75003700

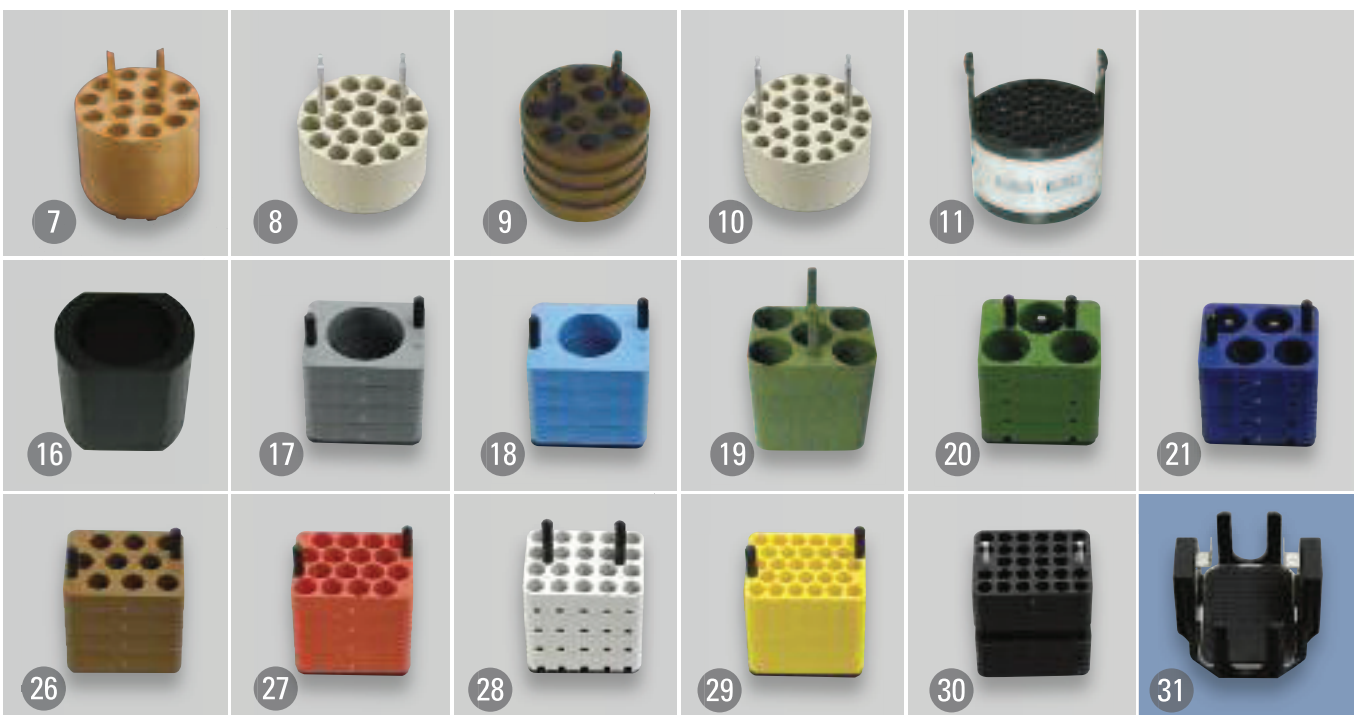


TX-750 Swinging Bucket Rotor¹


Thermo Scientific Rotors and Adapters

Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	SL 16/16R		SL 40/40R		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
TX-750 High Versatility Swinging Bucket Rotor*							75003607
Round Buckets (set of 4), 90°, R_{max} 195 mm	4 x 750 ml		n/a	n/a	4700	4816	75003608
ClickSeal Biocontainment Lids for Round Buckets (set of 4)							75003609
Replacement O-rings for Lids (set of 4)							75003610
Adapters for Round Buckets (sets of 4 unless otherwise noted)							
750 ml Polypropylene Bio-Bottle (75003699, pkg of 12)	4 x 750 ml	98 x 133					No adapter needed
500 ml Corning® Conical Bottle	4 x 500 ml	98 x 133					Corning no. 431124
250 ml Corning Conical Bottle	4 x 250 ml	62.5 x 139					75003792
① 250 ml Nalgene® Oak Ridge Bottle	4 x 250 ml	62.5 x 139					75003710
① 225 ml and 175 ml BD Falcon Conical Bottle	4 x 225 ml	62.5 x 139					75003710 +BD no. 352090
① 200 ml Nunc™ Conical Bottle	4 x 200 ml	62.5 x 139					75003710 + Nunc no. 377585
① 175 ml Nalgene Bottle	4 x 175 ml	62.5 x 139					75003710 + Nalgene no. DS3126-0175
② 100 ml Round Bottom Open-Top Tube	8 x 100 ml	45 x 123					75003713
③ 50 ml Conical Tube (includes sealing vessel)	12 x 50 ml	29.5 x 120					75003714
④ 50 ml Conical Tube	28 x 50 ml	29.5 x 120					75003638
⑤ 50 ml Round Bottom Tube	28 x 50 ml	29.5 x 120					75003715
⑥ 25 ml Universal Conical or Skirted Tube	28 x 25 ml	25.5 x 120					75003716
⑦ 15 ml Conical Tube	56 x 15 ml	17 x 122					75003639
⑧ 15 ml Blood Collection Tube (17 x 125 mm)	32 x 15 ml	17 x 134					(inner circle only) 75003719
⑨ 14 ml Conical Urine Tube	48 x 14 ml	18 x 124					75003718
⑧ 10 ml Blood Collection or 15 ml Corex/Kimble Tube	84 x 10/15 ml	17 x 117					75003719
⑩ 5/7 ml Blood Collection Tube	108 x 5/7 ml	13 x 116					75003723
⑪ 5 ml RIA or Round Bottom Tube (without cap)	148 x 5 ml	13 x 111					75003724
⑪ 5/7 ml Round Bottom Tube (without cap) with Decanting Aid	148 x 5/7 ml	13 x 111					75003732
⑫ 1.5/2 ml Conical Microtube	192 x 2 ml	11 x 50					75003733
⑬ T-75 Nunc Easy Flask (set of 2)	4 x T-75	-					75008383
⑭ T-25 Nunc Easy Flask (set of 2)	8 x T-25	-					75008384

¹ Buckets and lids sold separately



Thermo Scientific Rotors and Adapters

Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	SL 16/16R		SL 40/40R		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
TX-750 High Versatility Swinging Bucket Rotor (continued)							
15 Rectangular Buckets (set of 4), 90°, R _{max} 195 mm	4 x 250 ml		n/a	n/a	4500	4415	75003614
					4700 ³	4816 ³	
					4300 ⁴	4031 ⁴	
 ClickSeal Biocontainment Lids for Rectangular Buckets (set of 4)							75003615
Replacement O-rings for Lids (set of 4)							75003616
Adapters for Rectangular Buckets (sets of 4)							
16 250 ml Flat Bottom Bottle	4 x 250 ml	63 x 130					75003737
17 150 ml Round Bottom Open-Top Tube	4 x 150 ml	56 x 124					75003738
18 100 ml Round Bottom Open-Top Tube	4 x 100 ml	46 x 124					75003742
19 50 ml Conical Tube	20 x 50 ml	30 x 121					75003685
20 50 ml Round Bottom Tube	12 x 50 ml	35 x 121					75003749
21 45 ml Flat/Round Tube	16 x 45 ml	30 x 121					75003750
22 25 ml Universal Tube	16 x 25 ml	26 x 121					75003755
23 25 ml DIN Round Bottom Tube	24 x 25 ml	26 x 121					75003756
24 15 ml Conical Tube	48 x 15 ml	17 x 120					75003684
25 14 ml Flanged Round Bottom Tube	36 x 14 ml	18 x 121					75003758
26 15 ml Conical Urine Tube	36 x 15 ml	17 x 124					75003759
27 10 ml Blood Collection or 15 ml DIN Tube	64 x 10/15 ml	17 x 118					75003767
28 5/7 ml Blood Collection Tube	80 x 5/7 ml	14 x 118					75003768
29 5/7 ml Round Bottom Tube	112 x 5/7 ml	13 x 119					75003769
30 1.5/2 ml Conical Microtube	224 x 2 ml	11 x 50					75003770
31 Carriers for Microplates and T-75 Horizontal Flasks, includes plate trays and neoprene pad, 90° R _{max} 155 mm	4 x 4 Standard or 4 x 1 Deepwell	H _{max} : 60 mm	n/a	n/a	4700	3828	(set of 2) 75003795 (set of 4) 75003617

³ 230 V refrigerated centrifuge

⁴ 120 V ventilated and refrigerated centrifuge



BIOLiner¹ (top) and M-20 Microplate (right) Rotors

Thermo Scientific Rotors and Adapters

Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	SL 16/16R		SL 40/40R		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
BIOLiner High Capacity Rotor							75003667
BIOLiner Buckets (set of 4), 90°, R_{max} 200 mm	4 x 750 ml		n/a	n/a	3500	2739	75003668
ClickSeal Biocontainment Lids for BIOLiner Buckets (set of 4)							75003669
Replacement O-rings for Lids							75003688
Adapters for BIOLiner Buckets (sets of 4)							
1 750 ml Flat Bottom Bottle with all round adapters listed for TX-750 round bucket	4 x 750 ml	98 x 124					75003692
1 500 ml Corning Conical Bottle	4 x 500 ml	98 x 124					75003692 + Corning no. 431124
2 250 ml Corning Conical Bottle ⁵	4 x 250 ml	62 x 145					75003691
3 250 ml Nalgene Oak Ridge Bottle	8 x 250 ml	62 x 130					75003675
3 225 ml and 175 ml BD Falcon Conical Bottle	8 x 225 ml	62 x 130					75003675 + BD no. 352090
3 200 ml Nunc Conical Bottle	8 x 175 ml	62 x 130					75003675 + Nunc no. 377585
4 50 ml Conical Tube	40 x 50 ml	30 x 120					75003674
5 15 ml Conical Tube	88 x 15 ml	17.5 x 121					75003673
6 10 ml Blood Collection Tube	148 x 10 ml	17 x 110					75003672
7 5/7 ml Blood Collection Tube	196 x 5/7 ml	14 x 110					75003671
Microplate Carriers for BIOLiner Rotor (set of 4), 90°, R_{max} 179 mm	4 x 4 Standard or 4 x 1 Deepwell	H_{max}: 60 mm	n/a	n/a	3500	2451	(set of 2) 75003796 (set of 4) 75003670
ClickSeal Biocontainment Lids for BIOLiner Microplate Carriers (set of 4)							75003689
Replacement O-rings for Microplate Carrier Lids (set of 4)							75003626
M-20 Microplate Rotor, 90°, R_{max} 127 mm, includes 2 buckets and 2 adapters	2 x 3 Standard or 2 x 1 Deepwell	H_{max}: 65 mm	4000	2272	n/a	n/a	75003624
Sealed Carriers, includes trays and lids (set of 2)		H _{max} : 45 mm					75003625
Replacement Sealing Lids (set of 2)							75002011
Replacement O-rings (set of 4 with grease)							75002012

¹ Buckets and lids sold separately

⁵ In open buckets only



BIOShield 720 (top) and BIOShield 1000A (right) Swinging Bucket Rotors

Thermo Scientific Rotors and Adapters

Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	SL 16/16R		SL 40/40R		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
BIOShield 720 High Speed Swinging Bucket Rotor, 90°, R_{max} 162 mm	4 x 180 ml		5300	5088	n/a	n/a	75003621
Adapters for BIOShield 720 Rotor (sets of 4)							
180 ml Polypropylene Screw Cap Bottle (75003800, pkg of 12)	4 x 180 ml	56 x 123					75003693
8 150 ml Round Bottom Open-Top Tube	4 x 150 ml	50 x 122					75003813
9 100 ml Round Bottom Open-Top Tube	4 x 100 ml	44 x 120					75003814
10 50 ml Conical Tube	8 x 50 ml	34.5 x 116					75003677
11 50 ml DIN Round Bottom Tube	8 x 50 ml	34 x 109					75003816
12 25 ml Universal Tube	16 x 25 ml	22.5 x 105					75003818
13 25 ml DIN Round Bottom Tube	20 x 25 ml	25 x 107					75003817
14 15 ml Conical Tube	24 x 15 ml	17 x 120					75003678
15 15 ml Sarstedt Tube	44 x 15 ml	17 x 103					75003820
16 10 ml Blood Collection Tube	48 x 10 ml	17 x 105					75003701
17 5/7ml Blood Collection Tube	48 x 5/7 ml	13 x 106					75003821
18 5/7ml Round Bottom Open-Top Tube	80 x 5/7 ml	13 x 104					75003822
19 1.5/2ml Conical Microtube	160 x 2 ml	11 x 45					75003823
BIOShield 1000A High Speed Swinging Bucket Rotor, 90°, R_{max} 178 mm	4 x 250 ml		n/a	n/a	5300	5590	75003603
Adapters for BIOShield 1000A Rotor (sets of 4)							
20 250 ml Nalgene Flat Bottom Bottle	4 x 250 ml	62.5 x 124					75003737
21 150 ml Round Bottom Open-Top Tube	4 x 150 ml	56.5 x 119					75003738
22 100 ml Round Bottom Open-Top Tube	4 x 100 ml	45.5 x 120					75003742
23 50 ml Conical Tube	16 x 50 ml	29.5 x 117					75003643
24 50 ml Round Bottom Tube	12 x 50 ml	35 x 113					75003749
25 45 ml Flat/Round Tube	16 x 45 ml	30 x 113					75003750
26 25 ml Universal Tube	16 x 25 ml	26 x 113					75003755
27 25 ml DIN Round Bottom Tube	24 x 25 ml	25.5 x 113					75003756
28 15 ml Conical Tube	36 x 15 ml	17 x 121					75003642
29 14 ml Flanged Round Bottom Tube	36 x 14 ml	18 x 113					75003758
30 15 ml Conical Urine Tube	36 x 15 ml	17 x 115					75003759
31 10 ml Blood Collection or 15 ml DIN Tube	64 x 10/15 ml	17 x 109					75003767
32 5/7 ml Blood Collection Tube	80 x 5/7 ml	14 x 109					75003768
33 5/7 ml Round Bottom Tube	112 x 5/7 ml	13 x 110					75003769
34 1.5/2 ml Conical Microtube	224 x 2 ml	11 x 50					75003770

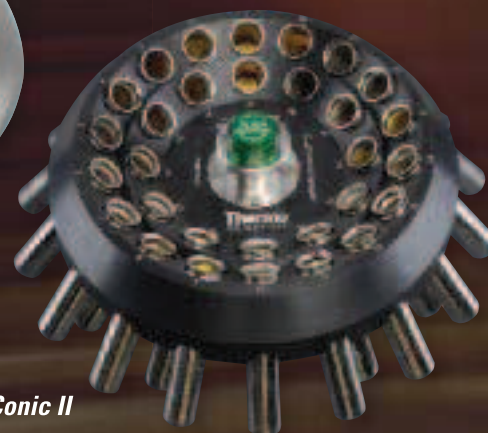
Fixed Angle Rotors



Fiberlite F15-6x100



HIGHConic II



CLINIConic II

Thermo Scientific Rotors and Adapters

Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	SL 16/16R		SL 40/40R		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
Fiberlite F15-6x100 Fixed Angle Rotor, 25°, R_{max} 98 mm	6 x 100 ml	38 x 105	13000	18516	13000	18516	75003698
O-ring Refresher Kit							021-069031
Adapters for F15-6x100 Rotor (sold separately)							
94 ml Nalgene Tube	6 x 94 ml	38 x 105					No adapter needed
50 ml Conical Tube	6 x 50 ml	30 x 121					75003103
15 ml Conical Tube	6 x 15 ml	17 x 123					75003095
50 ml Round Bottom Tube	6 x 50 ml	30 x 117					75003102
38 ml Round Bottom Tube	6 x 38 ml	26 x 110					75003094
16 ml Round Bottom Tube	6 x 16 ml	18 x 123					76002906
12 ml Round Bottom Tube	12 x 12 ml	16 x 95					75003093
6.5 ml Round Bottom Tube	12 x 6.5 ml	13 x 114					75003092
3.5 ml Round Bottom Tube	24 x 3.5 ml	11 x 100					75003091
1.5/2 ml Conical Microtube	24 x 2 ml	11 x 40					76002905
HIGHConic II Aluminum Fixed Angle Rotor, 45°, R_{max} 126 mm	6 x 94 ml	38 x 105	8500	10178	10350	15090	75003620
Replacement Sealing O-rings (set of 2 with grease)							75003058
Adapters for HIGHConic II Rotor (sold separately)							
94 ml Round Bottom Tube	6 x 94 ml	38 x 105					No adapter needed
50 ml Conical Tube	6 x 50 ml	29.5 x 117					75003103
15 ml Conical Tube	6 x 15 ml	17 x 123					75003095
50 ml Round Bottom Tube	6 x 50 ml	29.4 x 117					75003102
38 ml Round Bottom Tube	6 x 38 ml	26 x 110					75003094
16 ml Round Bottom Tube	6 x 16 ml	18 x 123					76002906
12 ml Round Bottom Tube	12 x 12 ml	16 x 95					75003093
6.5 ml Round Bottom Tube	12 x 6.5 ml	13.5 x 114					75003092
3.5 ml Round Bottom Tube	24 x 3.5 ml	11 x 100					75003091
1.5/2 ml Conical Microtube	24 x 2 ml	11 x 40					76002905
CLINIConic Fixed Angle Rotor, 37°, R_{max} 140 mm	30 x 15 ml		5650	4997	n/a	n/a	75003623
Adapters for CLINIConic Rotor							
15 ml Round/Conical Bottom Tube	30 x 15 ml	16.5 x 131					No adapter needed
10 ml Round Bottom Tube	30 x 10 ml	16.5 x 95					75003702
7 ml Round Bottom or Blood Collection Tube (each)	30 x 7 ml	16.5 x 131					11172596
5 ml Round Bottom or Blood Collection Tube (each)	30 x 5 ml	13 x 95					11172595



Fiberlite F21-48x2

Microliter 48x2 Sealed Aluminum

8x50 ml Individually Sealed

Microliter 30x2 Sealed Aluminum

Thermo Scientific Rotors and Adapters

Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	SL 16/16R		SL 40/40R		Cat. No.
			Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	
8x50 ml Individually Sealed Fixed Angle Rotor, 45°, R_{max} 143 mm	8 x 50 ml		6700	7177	n/a	n/a	75003694
Replacement O-rings (set of 12)							75003689
Adapters for 8x50 ml Sealed Rotor							
50 ml Conical Tube	8 x 50 ml	29.5 x 116					No adapter needed
Fiberlite F21-48x2 Fixed Angle Rotor, 45°, R_{max} 97 mm	48 x 2 ml	11 x 50	n/a	n/a	15200	25055	75003664
O-ring Refresher Kit							021-489021
Adapters for F21-48x2 Rotor (sets of 24)							
0.2 ml PCR Tube	48 x 0.25 ml	6 x 20					76003750
0.5 ml Microtube	48 x 0.5 ml	8 x 44					76003758
0.25 ml Microtube	48 x 0.25 ml	6 x 46					76003759
Microliter 30x2 Sealed Aluminum Fixed Angle Rotor, 45°, R_{max} 100 mm	30 x 2 ml	11 x 50	15200	25830	n/a	n/a	75003652
Adapters for Microliter 30x2 Rotor (sets of 24)							
0.2 ml PCR Tube	30 x 0.25 ml	6.5 x 20					76003750
0.5 ml Microtube	30 x 0.5 ml	8 x 44					76003758
0.25 ml Microtube	30 x 0.25 ml	6 x 46					76003759
Microliter 48x2 Sealed Aluminum Fixed Angle Rotor, 45°, R_{max} 98 mm	48 x 2 ml	11 x 50	n/a	n/a	15200	25314	75003602
Adapters for Microliter 48x2 Rotor (sets of 24)							
0.2 ml PCR Tube	48 x 0.25 ml	6.5 x 20					76003750
0.5 ml Microtube	48 x 0.5 ml	8 x 44					76003758
0.25 ml Microtube	48 x 0.25 ml	6 x 46					76003759

⁴ 120 V ventilated and refrigerated centrifuge

Specifications and Ordering Information

Thermo Scientific SL 16 and SL 40 Centrifuge Series



Specifications	SL 16/16R	SL 40/40R	
Swinging Bucket Rotors			
Max Capacity	4 x 400 ml (with TX-400 rotor)	4 x 750 ml (with TX-750 and BIOLiner rotors)	
Max Speed	5500 rpm (with TX-200 rotor)	5300 rpm (with BIOShield 1000A rotor)	
Max RCF	5580 x g (with TX-200 rotor)	5590 x g (with BIOShield 1000A rotor)	
Fixed Angle Rotors			
Max Capacity	6 x 100 ml (with F15-6x100 rotor)	6 x 100 ml (with F15-6x100 rotor)	
Max Speed	15200 rpm (with 30x2 ml rotor)	15200 rpm (with 48x2 ml rotor)	
Max RCF	25830 x g (with 30x2 ml rotor)	25314 x g (with 48x2 ml rotor)	
Control System	Microprocessor		
Drive System	Direct, brushless induction low profile motor		
Rotor Locking System	Auto-Lock III		
Imbalance Detection System	SMARTSpin		
Programs	6, direct access		
Temperature Set Range*	-10 °C to +40 °C		
Pre-Cooling Function*	Yes, with direct button		
Refrigeration System*	CFC free		
Pulse (Short) Run	Yes		
Acceleration Rates	9		
Deceleration Rates	10		
Max Timer Range	9h, 99min + continuous		
Sound Level (dBA), with swinging bucket rotor at top speed	< 61/<55* dB (TX-400)	< 61/< 57* (TX-750)	
Other Features	Certified ClickSeal biocontainment system, language selection, motorized lid latch		
Max Power Consumption (W)	120V	850/1200*	1400
	230V	1010/1400*	1700/1950*
Max Heat Output (BTU/h)	120V	2900/4096*	4776
	230V	3447/4776*	5800/6653*
Dimensions			
Height (lid open)	87 cm/ 34.3 in	90 cm/ 35.4 in	
Height (lid closed)	36 cm/ 14.2 in	36 cm/ 14.2 in	
Width	44 cm/ 17.3 in	56.5 cm/ 22.2 in	
	62.3 cm*/ 24.5 in*	74.5 cm*/ 29.3 in*	
Depth	60.5 cm/ 23.8 in	67 cm/ 26.4 in	
Weight	57.5 kg/ 126.8 lb	86 kg/ 189.6 lb	
	91.5 kg*/ 201.7 lb*	116 kg*/ 255.7 lb*	
Technical Standards	IEC 61010-1, IEC 61010-202, IEC 61010-2-101 230 V only: EN 292, EN 61326, EN 55011B		
Certifications	UL listed / CSA certified / CE marked / IVD compliant / Certified Biosafety		
Ordering Information			
SL, ventilated, 120 V, 60 Hz	75004001	75004513	
SL, ventilated, 230 V, 50/60 Hz	75004000	75004512	
SL, refrigerated, 120 V, 60 Hz	75004031	75004528	
SL, refrigerated, 230 V, 50/60 Hz	75004030	75004527	

*Refrigerated models

The quality of the procedures used to design, manufacture, sell and service the SL 16 and SL 40 centrifuge series is certified and maintained in accordance to the **ISO 13485** international standard. Our effort to continuously improve our formalized business processes is certified and regularly audited in conformance with **ISO 9000** family of Quality Standards.



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