

# Fits in. **Stands out.**





## Introducing the NEW! Thermo Scientific<sup>™</sup> Sorvall<sup>™</sup> ST 8 and 8R small benchtop centrifuges

# Fits in.

to your space, with its compact footprint.

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to your applications, accommodating multi-laboratory settings with the flexibility to adapt with evolving clinical and research needs, in both ventilated and refrigerated options.

#### Sorvall ST 8

- 580 mL capacity (4 x 145 mL)
- Simplified routine operating interface
- Performance drive
- 4-program memory
- 13 optional rotor systems

### Sorvall ST 8R

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- 580 mL capacity (4 x 145 mL)
- Simplified routine operating interface
- High performance flexible shaft drive
- 99-program memory
- 15 optional rotor systems
- Powerful refrigeration system with pre-temperature function





#### Auto-Lock<sup>™</sup> Rotor Exchange

Secure push-button application versatility and cleaning convenience

75005702

termo

### ClickSeal<sup>™</sup> Biocontainment Lids One-handed, certified<sup>1</sup> sample protection

# **Stands out.**

- designed for solid reliability and consistent results.
- ▶ featuring innovative Thermo Scientific<sup>™</sup> technologies:
- anticipating and addressing your most pressing lab needs even the ones you don't know you have yet.





#### **Maximized Swing-Out Capacity**

Process up to  $8 \times 50$  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

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

# Fits in. Stands out.



# Simple solutions. **Flexible processing.**

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

- Trouble-free rotor installation and removal
  - 1 No tools are required
  - 2 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:

- 8 x 50 mL swinging bucket rotor capacity or 4 microplates for research needs
- Micro-volume rotor portfolio supports 0.2, 0.25, 0.5, 1.5, 2 and 5 mL microtubes
- Clinical processing up to 24 x 5/7 mL blood tubes per run



# Reliable quality. **Safe operation.**

- Biocontainment sealing options, including certified<sup>1</sup>
  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 (with Sorvall ST 8R centrifuge), to ensure a peaceful laboratory
- Conforms to the latest clinical and safety standards, such as UL, CE and IVD<sup>2</sup>
  - Biocontainment certification by the Public Health England, Porton Down, UK
  - <sup>2</sup> See full list of standards & certifications on page 14



#### **Micro-volume Solution Rotors**

Accommodates up to 30 spin columns, such as DNA and RNA mini-preps, including open lid designs



# 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

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## Fits in. clinical applications.

# Stands out.

Outstanding capacity in a compact design with a smart, 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
- Fast acceleration and deceleration times for quicker spins



#### **Expanded Programming Options**

- 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), ideal for controlled environments

## Rotors for Clinical Applications

Thermo Scientific Rotor	Description	Stand-out Features	VENTILATED	rmance REFRIGERATED
TX-150 Swinging Bucket Rotor				
*	Designed for a broad range of high-speed, high-capacity swing-out processing needs capacity of 24 x 5/7 mL blood tubes per ru flexibility with a wide range of adapters.	, with a protection with ClickSeal	4,500 rpm 3,260 x g	4,500 rpm 3,260 x g
M10 Swinging Bucket Rotor				
	Centrifuge 4 microplates or 2 midi-deepwe ideally suited for quick spins. Spin up to 4 s microplates with optional certified' ClickSe biocontainment lids.	standard carriers, complemented by	4,400 rpm 2,576 x g	4,400 rpm 2,576 x g
8 x 50 mL Individually Sealed Fixe	ed Angle Rotor		_	
	Designed for high-risk sample processing f range of clinical and research tubes.	or a 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 accelera optimize blood separation applications.		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
Biocontainment certification I	by the Public Health England, Porton Down, UK		AT.	H
Dedicated Rotor	rs for Routine Clinical Process	ing	I() NOR	
	200 <b>8</b>			
<b>*</b>				
TX-100S Clinical Swi	nging Bucket Rotor with Sealed Carriers	TX-100 Clinical Swinging Bucket F	Rotor with Carriers	
Spin 8 tub	pes with biocontainment sealing	Capacity of 16 tubes p	er run	
Ventilat 4,500 r 3,260 :	rpm 4,500 rpm	4,500 rpm 4	efrigerated 1,500 rpm 3,260 x g	

## Fits in. research applications.

# Stands out.

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

- 8 x 50 mL swinging bucket rotor capacity, 4 microplates, or 30 filtration columns for research needs
- Auto-Lock rotor exchange for application flexibility – go from 50 mL tube to microplates to microtubes effortlessly



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#### 30,279 x g Performance

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

• quicker spins

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- 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    Perform VENTILATED      TX-150 Swinging Bucket Rotor	4,500 rpm 3,260 x g
Image: Second state of the second s	3,260 x g 4,400 rpm
Image: Specific s	3,260 x g 4,400 rpm
Centrifuge 4 standard microplates or Transportable microplate 4,400 rpm	
quick spins. Spin up to 4 standard      microplates with optional certified!      ClickSeal biocontainment lids Non-shielded      design for quick access to microplates.	
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' sealed conditions.    New transparent lid enables viewing for added safety and convenience, and Auto-Lock rotor exchange enhances ease-of-use.    8,700 rpm 10,155 x g	9,500 rpm 12,108 x g
CLINIConic Fixed Angle Rotor	
Spin 30 x 15 mL round or conical tubes and ensure fast acceleration and throughput for cell culture applications.    Support conical tubes in a fixed angle rotor with the flexbility of Auto-Lock rotor exchange.    4,400 rpm 3,030 x g	4,400 rpm 3,030 x g
MicroClick 18 x 5 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 Solution Rotors	
MicroClick 24 x 2    Fixed Angle Rotor      Capable of supporting micro-volume protocols, such as nucleic acid preparation, Coose from the complete micro-volume rotor portfolio.    With Auto-Lock rotor exchange, switch from swing-out to a microtube rotor in as little as 3 seconds, coupled with security of certified <sup>1</sup> ClickSeal    16,000 rpm 24,328 x g	17,850 rpm 30,279 x g
MicroClick 30 x 2 Fixed Angle Rotor  biocontainment lids.  14,000 rpm 21,694 x g    Additionally, the MicroClick 30 x 2, is designed with an extended neck to accommodate  14,000 rpm 21,694 x g	14,000 rpm 21,694 x g
Image: Second state sta	15,000 rpm 17,860 x g

Ex Po	Stands out. Extensive Rotor Portfolio for Application Flexibility			Rotors –	g	MT	-12 Swingin	g
I	۲	Bucket Rotor	(515)	Bucket Roto	ř	B	ucket Rotor	
1	U	2 3 4	5 Rotor Capacity	6 Max Tube	7 Max Speed	Max RCF	8 Max Speed	Max RCF
	Cat. No.	Description	(places x volume, mL)	Dimensions (0 x L, mm)	(rpm)	(x g)	(rpm)	(x g)
Ve	rsatile Sv	winging Bucket Rotors			VENTI	LATED	REFRIGERATED	
	75005701	TX-150 Swinging Bucket Rotor, 90°, Rmax 144 mm (order buckets separately)	4 x 145	50 x 100	4,500	3,260	4,500	3,260
	75005703	50 mL Conical Buckets	8 x 50	29.5 x 120	4,500	3,260	4,500	3,260
	75005702	(unsealed, no adapter needed) (set of 4) Round Buckets (set of 4)	4 x 145	50 x 100	4,500	3,260	4,500	3,260
	75005702	ClickSeal Biocontainment Lids for Round Buckets (set of 4)	4 × 140	50 X 100	4,000	0,200	4,000	0,200
~	75005724	Replacement O-rings for Lids (set of 4)						
	Adapters f	or 50 mL Conical Buckets (sets of 2)						
	75005808	15 mL Conical Tube	8 x 15	17 x 123				
	Adapters f	or Round Buckets (sets of 4)						
	no adapter							
	needed	145 mL Bottle (75005734)	4 x 145	50 x 100				
1	75005735	100 mL Round Bottom Open-Top Tube	4 x 100	45 x 117				
2	75005736			29.5 x 120				
		25 mL Universal Flat/Skirted Tube	4 x 25	25 x 120				
		15 mL Conical Tube	8 x 15	17 x 122				
		11 mL IVF Tube	8 x 11	17 x 122				
	75005738	14 mL Urine Tube	16 x 14	18 x 124				
	75005738	12 mL Blood Collection Tube (Greiner™)	16 x 12	16 x 100				
	75005738	10 mL Blood Collection or 15 mL Corex™/Kimble™ Tube	16 x 15	17 x 117				
	75005739	5/7mL mL Blood Collection Tube	24 x 5/7	13 x 116				
	75005740	3/5 mL Blood Collection Tube	28 x 3/5	12 x 124				
8	75005743 Rotor Pack	1.5/2 mL Microtube	40 x 2	11 x 65				
	75005760	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				
	75005761	High Capacity Cell Culture Package, INCLUDES: TX-150 Rotor (75005701), Conical Buckets (75005703), Adapters for 15 mL Conical Tubes (75005808)	8 x 50	18 x 124				
	75005762	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 (75005738)	24 x 5/7	18 x 124				
	75005706	M10 Swinging Bucket Rotor, 90°, Rmax 119 mm (order buckets separately)		n/a	4,400	2,576	4,400	2,576
	75005723	Unsealed Buckets (set of 2)	4 Standard or 2 Midi-Deepwell	Height < 33 mm				
*	75005721	Sealed Buckets (set of 2) R <sub>max</sub> 109mm	4 Standard or 2 Midi-Deepwel	Height < 33 mm				
<b>*</b>	75005600	MT-12 Swinging Bucket Rotor, 90°, R <sub>max</sub> 87 mm	12 x 2	11 x 50	13,000	16,438	13,000	16,438

### Clinical Swinging Bucket Rotors

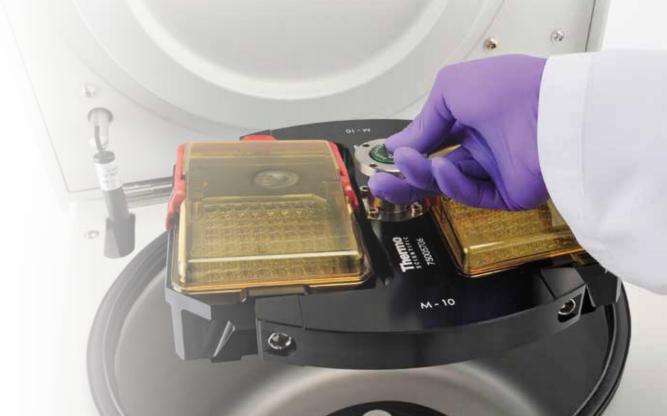


TX-100S Clinical Swinging Bucket Rotor



TX-100 Clinical Swinging Bucket Rotor

	Cat. No.	Description	Rotor Capacity (places x volume, mL)	Max Tube Dimensions (O x L, mm)	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)
Cli	Clinical Swinging Bucket Rotors			VENTI	LATED	REFRIG	ERATED	
*	75005704	TX-100S Clinical Swinging Bucket Rotor with Sealed Carriers, 90°, Rmax 144 mm	8 x 15	17 x 106	4,500	3,260	4,500	3,260
	75005705	TX-100 Clinical Swinging Bucket Rotor with Carriers, 90°, Rmax 144 mm	16 x 15	17 x 121	4,500	3,260	4,500	3,260
	Adapters f	or TX-100S Clinical Rotor and TX-100 Clinical Rotor (e	ach)					
	11203666	13.5 mL Urine Tube	16/8 x 13.5	16 x 82				
	11172596	5/7 mL BD Hemogard <sup>™</sup> / BD Vacutainer <sup>™</sup> Tube	16/8 x 5/7	13 x 106				
	11172595	5 mL BD Hemogard Tube	16/8 x 5	13 x 75				
	11172287	3 mL Blood Collection Tube	16/8 x 3	11 x 70				
	11172288	1.5/2 mL Microtube	16/8 x 1.5/2	10 x 41				





	Cat. No.	Description	Rotor Capacity (places x volume, mL)	Max Tube Dimensions (0 x L, mm)	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)
xe	ed Angle Rotors				VENTILATED		REFRIGERATED	
t	75005709	HIGHConic III Rotor, 45°, R <sub>max</sub> 120 mm	6 x 50	30 x 121	8,700	10,155	9,500	12,108
	75005731	Replacement Lid (each)						
	75003058	Replacement Sealing O-rings (set of 2 with grease)						
	Adapters fo	r HIGHConic III Rotor (set of 6)						
	75005745	38 mL Round Bottom Tube	6 x 38	25.5 x 110				
	75005746	16 mL Round Bottom Tube	6 x 16	18 x 123				
	75005755	15 mL Conical Tube	6 x 15	17 x 123				
	75005747	12 mL Round Bottom Tube	6 x 12	16 x 95				
	75005748	6.5 mL Round Bottom Tube	6 x 6.5	13.5 x 114				
	75005770	5 mL Conical Microtube	6 x 5	17 x 100				
	75005749	3.5 mL Round Bottom Tube	12 x 3.5	11 x 100				
	75005750	1.5/2 mL Microtube	12 x 2	11 x 40				
t	75003694	8 x 50 mL Individually Sealed Rotor 25°, R <sub>max</sub> 143 mm	8 x 50 Sealed	30 x 121	n/a	n/a	5,600	5,014
	75003011	Replacement Biocontainment Lids (set of 2)						
	75003689	Replacement O-ring Kit						
	Adapters fo	r 8 x 50 mL Individually Sealed Rotor (set of 8)						
	75005755	15 mL Conical Tube	8 x 50	17 x 121				
	75005747	10 mL Blood Collection Tube (16 x 100 mm)	8 x 10	16 x 110				
	75005748	7 mL Blood Collection Tube (13 x 100 mm)	8 x 7	13 x 110				
	75005749	3.5 mL Blood Collection Tube	16 x 3.5	11 x 75				
	75003623	CLINIConic Rotor, 37°, R <sub>max</sub> 140 mm	30 x 15	16.5 x 131	4,400	3,030	4,400	3,030
	Adapters fo	r CLINIConic Rotor (each)						
	no adapter needed	15 mL Round/Conical Bottom Tube	30 x 15	16.5 x 131				
	75003702	10 mL Round Bottom Tube	30 x 10	16.5 x 95				
	11172596	5/7 mL BD Hemogard/ BD Vacutainer Tube	30 x 5/7	13 x 106				
	11172595	5 mL BD Hemogard Tube	30 x 5	13 x 75				
t	75005765	MicroClick 18 x 5 Rotor, R <sub>max</sub> 102 mm	18 x 5	17 x 62	n/a	n/a	14,000	22,351
	Adapters fo	r MicroClick 18 x 5 (set of 2)						
	75005756	1.5/2 mL Microtube	18 x 1.5/2	11 x 45				



	Cat. No.	Description	Rotor Capacity (places x volume, mL)	Max Tube Dimensions (0 x L, mm)	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)
Fixe	d Angle	Rotors		VENTI	VENTILATED		REFRIGERATED	
×	75005719	MicroClick 30 x 2 Rotor, 45°, R <sub>max</sub> 99 mm	30 x 1.5/2	11 x 45	14,000	21,694	14,000	21,694
	75005730	Replacement ClickSeal Biocontainment Lid (each)						
	75005726	Replacement O-ring for Lid (each)						
×	75005715	MicroClick 24 x 2 Rotor, 45°, R <sub>max</sub> 85 mm	24 x 1.5/2	11 x 45	16,000	24,328	17,850	30,279
	75005725	Replacement ClickSeal Biocontainment Lid (each)						
	75003405	Replacement O-ring for Lid (each)						
	Adapters for	Adapters for MicroClick 30 x 2 Rotor and MicroClick 24 x 2 Rotor (sets of 30)						
	75005752	0.2 mL PCR Tube	30/24 x 0.2	6.5 x 20				
	75005753	0.5 mL Microtube	30/24 x 0.5	8 x 44				
	75005754	0.25 mL Microtube	30/24 x 0.25	6 x 46				
*	75005720	8 x 8 PCR Strip Rotor, 45°, R <sub>max</sub> 71 mm	8 x 8 PCR strips	8 x 8	15,000	17,860	15,000	17,860
	75005730	Replacement ClickSeal Biocontainment Lid (each)						
	75005726	Replacement O-ring for Lid (each)						
	75005733	Hematocrit Rotor, 90°, R <sub>max</sub> 85 mm, includes Linear Scale	24 Capillaries	n/a	13,300	16,810	13,300	16,810
	76000923	Capillaries (pack of 100)						
	75000964	Sealing Kit						
	76000938	Replacement Linear Scale Reading Graph						



## Thermo Scientific Sorvall ST 8 Centrifuge Series





Specifications	Sorvall ST 8	Sorvall ST 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	Micro	processor					
Drive System		ess induction drive					
Rotor Locking System	Auto-Lock	rotor exchange					
Imbalance Detection System		ment, with rotor mass correction					
Programs	4 direct program buttons, with alphanumeric program naming	3 direct program buttons, plus 96 additional programs accessible via folde all with alphanumeric program naming					
Pulse (Short) Run	Yes						
Acceleration / Deceleration Rates	2 (standard and soft)						
Centrifugation Chamber	Brushed stainless steel						
Max Timer Range	99h 59mi	n, 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		Il biocontainment lids ench, 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 61010-2-02	0, IEC 61010-2-101, EN 61326-1					
Certifications	UL Listed / CE marked / IVD co	mpliant / Certified biocontainment <sup>1</sup>					

#### **Ordering Information**

75007200	Sorvall ST 8 centrifuge, ventilated, 120 V, 60 Hz
75007201	Sorvall ST 8 centrifuge, ventilated, 230 V, 50/60 Hz
75007202	Sorvall ST 8 centrifuge, ventilated, 100 V, 50/60 Hz
75007203	Sorvall ST 8R centrifuge, refrigerated, 120 V, 60 Hz
75007204	Sorvall ST 8R centrifuge, refrigerated, 230 V, 50/60 Hz
75007205	Sorvall ST 8R centrifuge, refrigerated, 100 V, 50/60 Hz

 $^{_{1}} \circledast$ Biocontainment certification by the Public Health England, Porton Down, UK

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



# Fits in. **Stands out.**

## Fits in. More centrifuge solutions for your lab

Perfect Fit. It's simple. From 1 Liter bottles, to 15 and 50 mL conical tubes and microplates, the versatile selection of **Thermo Scientific™ Nalgene™ and Nunc™ centrifugation products** work seamlessly with your complete centrifuge and rotor system, bringing together outstanding quality and performance.



### Thermo Scientific Sorvall Benchtop Centrifuges

Accelerate your research with high speeds, rotor versatility and outstanding safety. From intuitive controls, to the certified<sup>1</sup> Thermo Scientific ClickSeal biocontainment rotor lids that "click" in place, Thermo Scientific Sorvall benchtop centrifuges deliver the perfect blend of capabilities to support micro-volume protocols, a wide range of high volume swing-out applications and high speed processing.

### Thermo Scientific<sup>™</sup> Sorvall<sup>™</sup> Legend<sup>™</sup> Micro microcentrifuge series

Select from two available speed options, up to  $17,000 \times g$  for routine laboratory work, or  $21,000 \times g$  for high-end research applications, and our extensive rotor portfolio, including:

- Standard 24-place rotor supports 1.5 to 2.0 mL tubes and spin columns.
- Unique dual row rotor holds 18 x 1.5/2.0 mL or 18 x 0.5 mL tubes, eliminating the need for adapters.

### Thermo Scientific<sup>™</sup> Sorvall<sup>™</sup> Legend<sup>™</sup> general purpose centrifuges

Improve performance and endurance with innovative technologies with 1.6 or 4 Liter capacity in a compact footprint.

- Support multiple users with the flexibility to adapt with evolving clinical and research needs, up to 196 x 5/7 mL blood tubes or 40 x 50 mL conical tubes in one spin.
- Lightweight Thermo Scientific<sup>™</sup> Fiberlite<sup>™</sup> carbon fiber rotors provide outstanding ergonomics and performance.
- 1 🚸 Biocontainment certification by the Public Health England, Porton Down, UK

#### thermoscientific.com/smallbenchcentrifuge

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