



Centrifugation

X and S Series centrifuges

Revolving around performance

X and S Series centrifuges

Performance, power, and versatility



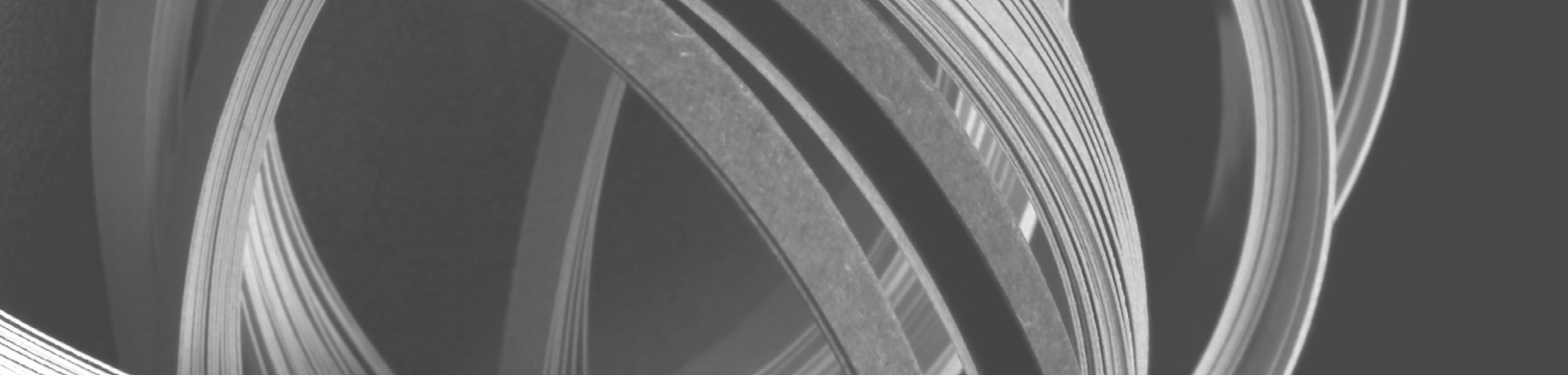
Thermo Scientific™ X and S Series General Purpose Centrifuges are designed to help provide exceptional performance, power, and versatility through innovations to support efficiency across applications.

The refrigerated models feature Thermo Scientific™ GreenCool™ Technology, a next-generation natural refrigerant cooling system for enhanced sustainability.

With fixed-angle rotor RCF (Relative Centrifugal Force) of over 25,000 x g, and swinging bucket rotor RCF of over 7,000 x g, even the toughest separations can be completed.

Scientists working across biopharmaceutical, academic research, and clinical diagnostic applications can choose between ventilated or refrigerated 1.6 L (4 x 400 mL) and 4 L (4 x 1,000 mL) floor-standing and tabletop models.





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Greener by design

Sustainability aspects



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

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

X and S Series Centrifuges with GreenCool technology designed to deliver powerful performance combined with more sustainable innovation. Featuring a next-generation natural refrigerant (R290) cooling system, it reduces environmental impact with a Global Warming Potential (GWP) of 3, while not contributing to depletion of the ozone layer and is compliant with EU and US EPA F-gas regulations. In addition to being **less hazardous**, the centrifuges are more energy efficient. In the United States, we offer a **recycling program**, where materials can then reenter the manufacturing stream. Furthermore, they are **manufactured in a certified zero-waste facility***** using **100% renewable electricity** in Osterode am Harz, Germany.

**Global
Warming
Potential = 3***

**Up to 15%
lower energy
consumption****

**Made in a
certified zero-
waste facility†**

**Recycling
program‡**



Less hazardous



Extended life

* Due to natural refrigerant (R290)

**Comparing maximum power consumption to previous model. Current model X2TR Centrifuge, 120V (1200W) and previous model Thermo Scientific™ Sorvall™ / Multifuge™ X1R Pro Centrifuge, 120V (1400W)

† Zero waste defined as less than 10% of non-hazardous waste sent to landfill, incineration or waste-to-energy

‡ End of life recycling program in the United States. Visit thermofisher.com/centrifuge-recycling

Enhanced sustainability

GreenCool Technology and more

Better for the environment

The refrigeration system uses a hydrocarbon refrigerant (R290), a natural gas with a Global Warming Potential (GWP) of 3. It does not deplete the ozone layer and breaks down naturally in the environment, helping to ensure a more sustainable choice.

Improved cooling performance

X and S series with GreenCool technology maintain stable cooling at lower temperatures than the previous models, helping ensure the integrity of temperature-sensitive samples with a cooler -20°C temperature setpoint.

Features for enhanced energy efficiency

Green Mode

Green compressor on/off feature with shut-down programming can extend compressor life and reduce energy costs.

Scheduling features

Scheduling capability promotes energy savings and enables pre-programmed start-up of compressor for temperature-ready centrifuge as soon as you arrive in the lab.

Fiberlite rotor options

Thermo Scientific™ Fiberlite™ Carbon Fiber Rotors weigh up to 60% less than metal equivalent rotors and therefore help accelerate/decelerate faster, helping reduce energy consumption per run². Fiberlite rotors weigh up to 43% less than aluminium rotors (Graph 1).

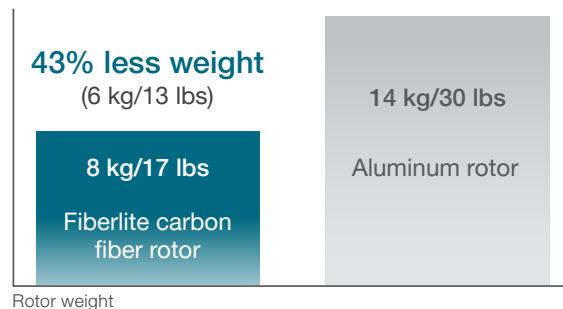
Windshielded rotor options

Thermo Scientific™ H-Flex™ HS4, BIOShield™ 1000A and HIGHPlate™ 6000 Rotors are windshielded rotors and enable users to spin tubes, bottles and plates at higher speeds with less energy than non-windshielded designs of the same rotor body.



Graph 1: Less weight of carbon fiber rotors:

Weight comparison of fully loaded 6 x 250 mL capacity floor model rotors



Rotor weight

¹ Compared to metal rotors.

² For additional detail, view Green Fact Sheet for X and S Series Centrifuges <https://documents.thermofisher.com/TFS-Assets/LPD/Reference-Materials/x-and-s-series-centrifuges-green-fact-sheet.pdf>

Models

Designed for powerful and reliable performance

Key differences between X and S Series

	X Series centrifuges	S Series centrifuges
Description	Elevate your research with the X Series high-performance centrifuge, delivering exceptional power and versatility through its advanced touchscreen interface, seamless connectivity, and comprehensive compliance capabilities.	The S Series centrifuge delivers reliable performance, combining intuitive controls with streamlined functionality to increase productivity for everyday applications.
		
Screen	Full-color touchscreen	LCD display
Number of programs	100 programs with step programming	6 programs
Speed	Increments of 1 rpm	Increments of 50 rpm
G-force	Increments of 1 x g	Increments of 50 x g
Time setting	In HH x MM x SS format, continuous and ACE modes	In HH x MM format as well as continuous mode
Time control	At start of the centrifugation run and at set speed	At start of the centrifugation run
Pulse button	Pulse duration is customizable	Pulse duration is fixed
Rotors	18 rotor options for X4 / 17 rotor options for X2	13 rotor options for S4 / 15 rotor options for S2
Sustainability features	GreenCool technology (refrigerated models), Green Mode, scheduling features, greener rotor options	GreenCool technology (refrigerated models), LCD powersave mode, greener rotor options
Error messages	Error code with user directions	Error code
Data logging	Data logged and logs accessed through the Health Status Button and exportable in PDF and CSV formats	Manual storage in laboratory notebooks
Data extraction	USB port, RS-232 port, Ethernet	RS-232 port
Connectivity	Optional SECURE-Spin Mode and Thermo Scientific™ Centri-Log™ Plus Data Management Software compatibility	Available through RS-232
Operating mode options	2 modes of centrifuge access: open and secure	Open mode of access

Features and benefits



User interface



X Series touchscreen interface

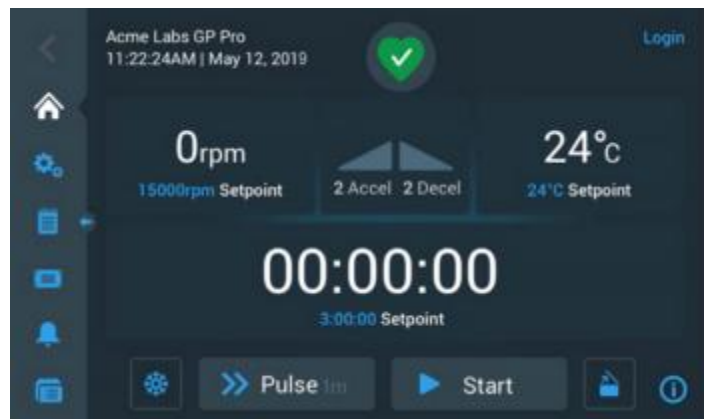


S Series standard user interface

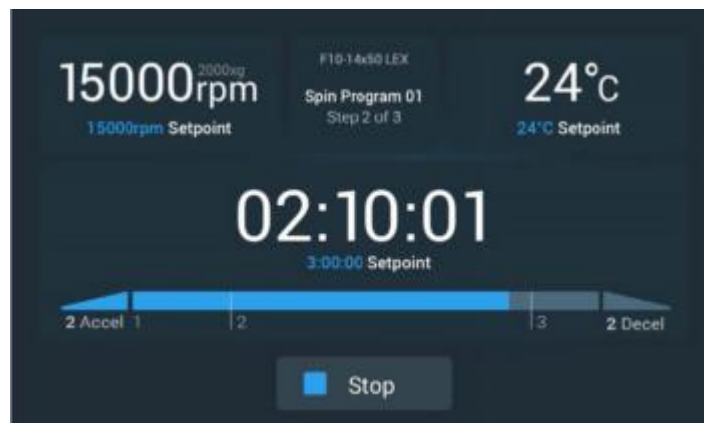
Simple touchscreen programming

Discover the X Series touchscreen features including:

- Easily accessible menu bar
- Centrifuge health icon for at-a-glance monitoring
- Time-saving pre-temp button
- Customizable quick spins
- Useful information icon for additional support
- Thermo Scientific™ Accumulated Centrifugal Effect (ACE™) integrator function for increased reproducibility
- Lighthouse mode to easily monitor your run progress and program end-of-run alerts



Simple touchscreen programming



Lighthouse mode



Rotor exchange

Thermo Scientific™ Auto-Lock™ Rotor Exchange

Helps save time for fast results:

- Secure, ergonomic push-button rotor exchange in as little as three seconds
- Trouble-free installation and removal with no tools required
- Full chamber access for cleaning convenience and helps minimize the risk of contamination
- Flexibility to quickly switch between applications and evolve with changing laboratory needs





Safety and ergonomics



Biocontainment lids

ClickSeal Biocontainment Lids

One-handed sample protection

- Biocontainment sealing options for glove-friendly, one-handed open/close capability are ergonomically designed for both right and left-handed operations
- Easy operation for all laboratory users, eliminating multi-turn screw caps and complicated high pressure clips
- Biocontainment certification by National Institute for Health Protection, Porton Down, UK or TÜV NORD CERT GmbH, Germany
- Audible and visual closure cues enhance safety and security





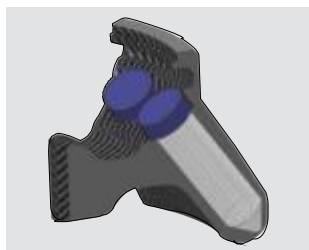
Rotor versatility and carbon fiber technology

Fiberlite Carbon Fiber Rotors

Excellent ergonomics and enhanced performance

- Fiberlite rotor and lid combinations offer protection to the user, the centrifuge and the samples during centrifugation
- Outstanding durability provided by carbon fiber construction is supported by a 15 year Fiberlite rotor warranty and no limitation in cycles of use
- Carbon fiber offers an exceptional ability to mold each cavity to form fit disposable conical tubes, bottles and other consumables, enabling high g-force spins for tougher separations compared to metal rotors and hybrid superspeed capabilities in a general purpose centrifuge
- Excellent ergonomics driven by lightweight construction, integrated handle design and Auto-Lock rotor exchange

Centrifuge models	Unique rotor options	Fiberlite options
X Series: X4T, X4TR, X4FR	18	7
X2T, X2TR	17	5
S Series: S4T, S4TR, S4FR	13	3
S2T, S2TR	15	3



Fiberlite rotor cavities are molded to the exact shape of many disposable conical tubes for maximum support; 50 mL conical tube shown here. In addition, a cap support is designed to relieve high g-forces.



Thermo Scientific™ TX-1000 Rotor

High versatility and capacity



1L Bio-bottles



15 mL conical tubes



Blood bags



50 mL conical tubes



Microplates



Cell culture bags

- Excellent application versatility with a variety of sample containers (bottles, conical bottles, conical tubes, round bottom tubes, blood tubes, microtubes, microplates, blood bags and cell culture bags)
- ClickSeal lids available for biocontainment
- Expand options with use of the BIOLink adapter (75007304), which opens up 17 additional adapter configurations



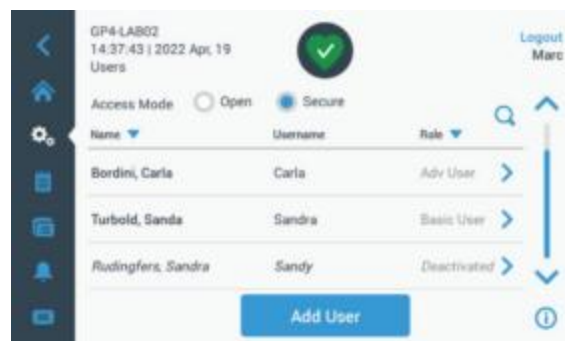


Connectivity and data management

Thermo Scientific™ SECURE-Spin™ Mode

Match the centrifuges to your compliance and sample tracking needs

- Enables advanced and secure control features in the **X Series centrifuges** by supporting 21 CFR Part 11 data management compliance and traceability
- Assign user rights and create up to 120 users profiles
- Traceable documentation provides audit trail for setting and program changes
- Compatible with Thermo Scientific™ Centri-Log™ Plus Data Management Software



Models for cell therapy manufacturing needs

General Purpose X Centrifuge CTS™ Series

Product and documentation package for cell therapy research and manufacturing needs

The Thermo Scientific™ General Purpose X4 Centrifuges Cell Therapy Systems Series consists of our popular X Series refrigerated centrifuge models (4 L), extensive documentation, and certifications. Our compliance services support your Good Manufacturing Practice (GMP) needs.

The CTS Series helps you get up and running fast, stay compliant, navigate regulatory audits, and stay on schedule as you take your cell therapy from discovery to clinical research and commercial manufacturing.

- Cleanroom compatibility:
 - Tabletop model X4TR: ISO Class 6
 - Floorstanding model X4FR: ISO Class 8
- Includes SECURE-Spin 21 CFR Part 11 data management compliance and traceability features
- Compatible with Vaporized Hydrogen Peroxide decontamination



Product



Documentation package



Compliance services

Learn more at thermofisher.com/ctscentrifuges

Maximum capacity with
TX-1000 rotor:



40x
50 mL

96x
15 mL



196x
5/7 mL

148x
10 mL

Application packages

Centrifuge packages are available to support cell culture, and blood/clinical applications, helping to save you time by combining our general purpose centrifuges with the necessary components to run specific protocols in one convenient bundle¹

Each package includes a Thermo Scientific™ General Purpose X or S Series Centrifuge, available in ventilated or refrigerated configurations, plus the selected rotor cross, compatible buckets, Thermo Scientific™ ClickSeal™ lids, and the application-specific adapter set shown below.

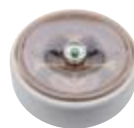
Rotor package	Cell culture adapter set included	Blood processing adapter set included
X4/S4 package options		
TX-1000	40 × 50 mL conical tubes 96 × 15 mL conical tubes	196 × 5/7 mL blood tubes 148 × 10 mL blood tubes
TX-750	28 × 50 mL conical tubes 56 × 15 mL conical tubes	108 × 5/7 mL blood tubes 84 × 10 mL blood tubes
X2/S2 package options		
TX-400	16 × 50 mL conical tubes 36 × 15 mL conical tubes	76 × 5/7 mL blood tubes 56 × 10 mL blood tubes
H-Flex 1	16 × 50 mL conical tubes 36 × 15 mL conical tubes 10 × standard / 2 × deep-well microplates	84 × 5/7 mL blood tubes 66 × 10 mL blood tubes

Tube quantities shown represent maximum capacity per run using the included adapter set. Buckets, ClickSeal™ lids, and adapter sets are supplied as sets of 4, except H-Flex 1 package components, which are supplied as sets of 2.

1. Additional region specific packages available. Please contact your local sales representative to learn more.

Rotor portfolio

Swinging bucket rotors



Thermo Scientific rotor name		TX-1000	TX-750	BIOShield 1000A	TX-400	BIOShield 720
Maximum capacity (mL)		4 x 1,000 mL	4 x 750 mL	4 x 250 mL	4 x 400 mL	4 x 180 mL
Maximum speed (rpm ¹)		4,200 rpm	4,700 rpm	6,000 rpm	5,000 rpm	6,300 rpm
Maximum RCF (x g ¹)		4,122 x g	4,816 x g	7,164 x g	4,696 x g	7,188 x g
Biocontainment 		√ (Optional)	√ (Optional)	√ (Integrated)	√ (Optional)	√ (Integrated)
X4T, X4TR, X4FR		√	√	√		
S4T, S4TR, S4FR		√	√	√		
X2T, X2TR					√	√
S2T, S2TR					√	√
Maximum capacity	 1,000 mL bio bottle	4	–	–	–	–
	 750 mL bio bottle	4	4	–	–	–
	 500 mL centrifuge bottle	4	–	–	–	–
	 500 mL conical bottle	4	4	–	–	–
	 250 mL centrifuge bottle	8	4	4	4	–
	250 mL conical bottle	4	*	–	–	–
	 225 mL - 175 mL conical bottle	8	4	–	4	–
	 50 mL conical tube	40	28	16	16	8
	 50 mL skirted conical tube	20	20	16	–	–
	 50 mL round bottom centrifuge tube	48	28	–	16	–
	 30 mL universal tube	28	28	16	12	16
	 15 mL conical tube	96	56	36	36	24
	 10 mL blood collection tube (16 x 100 mm)	148	84	64	56	48
	 5/7 mL blood collection tube (13 x 75–100 mm)	196	108	80	76	48
	 4.5/6 mL blood collection tube	164	108	–	64	–
	 1.5/2 mL microtube	192	192	224	136	–
	 Microplate	24	16	–	–	–

¹Maximum speed based on top performance models.

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

*Fits with 4 x 250 mL Corning™ Conical Bottles and 4 x 200 mL Thermo Scientific™ Nunc™ Conical Bottles.

Note: Labware not shown to scale.

Swinging bucket rotors (continued)



Thermo Scientific rotor name		TX-200	HIGHPlate 6000	Fiberlite H3-LV	M-20	H-Flex 1	H-Flex HS4
Maximum capacity (mL)		4 x 180 mL	10 Microplates	28 Microplates	6 Microplates	16x50 mL	16x50 mL
Maximum speed (rpm ¹)		5,500 rpm	6,300 rpm	3,600 rpm	4,000 rpm	4,700 rpm	6,100 rpm
Maximum RCF (x g ¹)		5,580 x g	6,168 x g	2,738 x g	2,272 x g	4,297 x g	7,197 x g
Biocontainment 		√ (Optional)	√ (Integrated)		√ (Optional)	√ (Optional)	√ (Integrated)
X4T, X4TR, X4FR			√	√	√		√
S4T, S4TR, S4FR					√		√
X2T, X2TR		√			√	√	
S2T, S2TR		√			√	√	
Maximum capacity 	1,000 mL bio bottle	–	–	–	–	–	–
	 750 mL bio bottle	–	–	–	–	–	–
	 500 mL centrifuge bottle	–	–	–	–	–	–
	 500 mL conical bottle	–	–	–	–	–	–
	 250 mL centrifuge bottle	–	–	–	–	–	–
	 250 mL conical bottle	–	–	–	–	–	–
	 225 mL - 175 mL conical bottle	–	–	–	–	–	–
	 50 mL conical tube	4	–	–	–	16	16
	 50 mL skirted conical tube	4	–	–	–	–	–
	 50 mL round bottom tube	–	–	–	–	–	–
	 30 mL universal tube	4	–	–	–	–	–
	 15 mL conical tube	20	–	–	–	36	36
	 10 mL blood collection tube (16 x 100 mm)	28	–	–	–	66	66
	 5/7 mL blood collection tube (13 x 75–100 mm)	32	–	–	–	84	84
	 4.5/6 mL blood collection tube	32	–	–	–	–	–
	 1.5/2 mL microtube	48	–	–	–	–	–
	 Microplate	–	10	28	6	10	10

¹Maximum speed based on top performance models.

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

Note: Labware not shown to scale.

Rotors and adapters for swinging bucket rotors



TX-1000 swinging bucket rotor¹ 90°, R_{max} 209 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4TR, X4FR	4,200	4,122
X4T	3,800	3,374
S4TR, S4FR	4,200	4,122
S4T	3,800	3,374

Adapter image	Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories				
	TX-1000 rotor cross with SlideCoat	4 x 1,000 mL or 24 microplate		75003017
	TX-1000 buckets (set of 4)			75003001
	TX-1000 ClickSeal biocontainment lids (set of 4) ♦			75007309
	Replacement O-rings			75007001
	1,000 mL bio-bottle - polypropylene (set of 4)			75007300
Adapters for TX-1000 rotor (sets of 4, unless otherwise noted)				
1	1,000 mL bio-bottle	4 x 1,000 mL	126 x 140	75007301
2	750 mL polypropylene bio-bottle ² and any TX-750 round BIOLink adapter	4 x 750 mL	98 x 133	75007304
3	500 mL Thermo Scientific™ Nalgene™ Bottle	4 x 500 mL	70 x 160	75004253
4	500 mL Corning™ Bottle	4 x 500 mL	98 x 133	75007302
5	250 mL Thermo Scientific™ Nunc™ Conical Bottle or 250 mL Corning conical bottle or 200 mL Nunc bottle or 175 mL Nalgene conical bottle	4 x 250 mL	62 x 145	75005392
6	250 mL Nalgene bottle	8 x 250 mL	62 x 145	75007305
6	225 mL BD Falcon™ (requires BD #352090)	8 x 225 mL	62 x 130	75007305
6	200 mL Nunc conical bottle (requires Nunc #377585)	8 x 200 mL	62.5 x 139	75007305
7	50 mL conical tube	40 x 50 mL	30 x 120	75003674
8	50 mL double biocontainment vessel for 50 mL conical tube (can be combined with ClickSeal lids), pack of 2 adapters	20 x 50 mL	30 x 120	75004255
9	50 mL Thermo Scientific™ Nalgene™ Oak Ridge Tube	48 x 50 mL	29.5 x 120	75004252
10	15 mL conical tube	96 x 15 mL	17.5 x 121	75007306
11	10 mL blood collection tube (16 x 100 mm) or Thermo Scientific™ Savant™ Corex™/ Kimble™ Tubes	148 x 10 mL	17 x 110	75003672
12	9/10 mL Sarstedt™ blood collection tube	100 x 9/10 mL	17 x 110	75003697
13	5/7 mL blood collection tube (13 x 75–100 mm)	196 x 5/7 mL	14 x 110	75003671
14	4.5/6 mL Greiner™ blood collection tube	164 x 4.5/6 mL	14 x 110	75003709
15	Microplate carriers	4 x 6 Standard or 4 x 2 Deep well	Height < 88 mm	75007303
16	Small bag/cell culture bags 4 x 2 bags (< 350 mL) ²	4 x 2 Bags		75003829



¹ Rotor, buckets and lids sold separately.

² Max speed 3,600 rpm

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

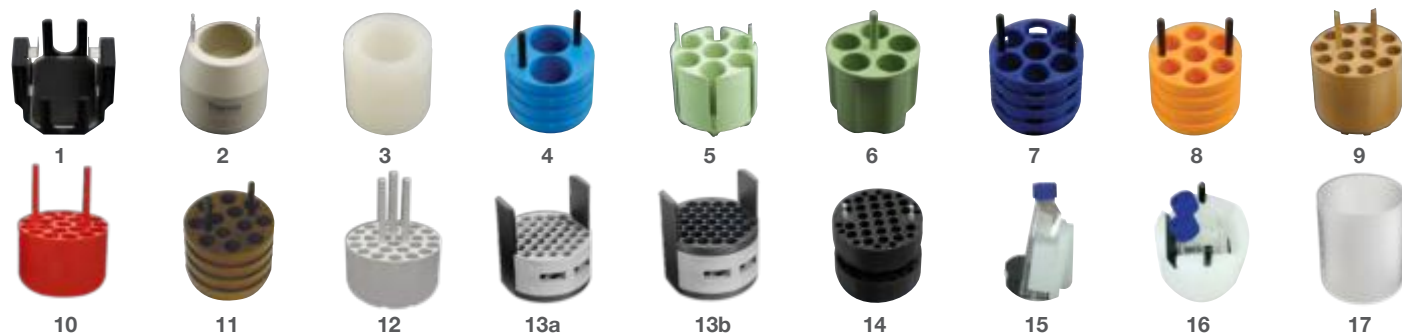


TX-750 swinging bucket rotor¹

90°, R_{max} 195 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	4,700	4,816
S4T, S4TR, S4FR	4,700	4,816

Adapter image	Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories				
	TX-750 rotor cross with SlideCoat			75003180
	TX-750 round buckets (set of 4)	4 x 750 mL		75003608
	TX-750 round ClickSeal biocontainment lids (set of 4) ♦			75003609
	Replacement TX-750 round O-rings for lids (set of 4)			75003610
	750 mL bio-bottle - polypropylene (each)			75006443
1	Microplate carriers and T-75 flask* (includes tray and pads) (set of 2)	4 Standard microplate or	Maximum height 60 mm	75003795
1	Microplate carriers and T-75 flask* (includes tray and pads) (set of 4)	1 Deep well plate per carrier		75003617
	Bucket for Applied Biosystems™ TaqMan™ Array Cards (set of 4) (ABI p/n 4442571)	12 x TaqMan Array Cards		75003618
Adapters for TX-750 rotor (sets of 4, unless stated otherwise)				
	750 mL bio-bottle	4 x 750 mL	98 x 133	Direct
	500 mL Corning conical bottle (requires Corning #431124)	4 x 500 mL	98 x 133	Direct
2	250 mL Corning conical bottle** and 250 mL Nalgene conical bottle with biocontainment	4 x 250 mL	62.5 x 139	75003792
3	250 mL Nalgene bottle and 250 mL Nunc Conical Tube (conical tube requires cushion adapter #377585)	4 x 250 mL	62.5 x 139	75003710
3	225 mL/175 mL BD Falcon conical bottle (requires BD #352090)**	4 x 225 mL	62.5 x 139	75003710
3	200 mL Nunc conical bottle (requires #377585)**	4 x 200 mL	62.5 x 139	75003710
3	175 mL Nalgene conical bottle (requires #DS3126-0175)**	4 x 175 mL	62.5 x 139	75003710
4	100 mL round bottom open-top tube	8 x 100 mL	45 x 123	75003713
5	50 mL conical tube	28 x 50 mL	30 x 120	75003638
6	50 mL conical or skirted tube	20 x 50 mL	30 x 120	75003824
7	50 mL Nalgene Oak Ridge tube	28 x 50 mL	29.5 x 120	75003715
8	30 mL Thermo Scientific™ Sterilin™ Universal Tube	28 x 30 mL	25.5 x 120	75003716
9	15 mL conical tube	56 x 15 mL	17 x 122	75003639
10	15 mL blood collection tube (17 x 125 mm in inner circle)	32 x 15 mL	17 x 134	75003719
10	10 mL blood collection (16 x 100 mm) or 15 mL Savant Corex/Kimble Tube	84 x 10/15 mL	17 x 117	75003719
11	14 mL round or conical urine tube	48 x 14 mL	18 x 124	75003718
12	5/7 mL or 4.5/6 mL blood collection tube (13 x 75-100 mm)	108 x 5/7 mL	13 x 116	75003723
13a	5 mL RIA or round bottom tube	148 x 5 mL	13 x 111	75003724
13b	5/7 mL Round bottom tube with decanting aid	148 x 5/7 mL	13 x 111	75003732
14	1.5/2 mL microtube	192 x 2 mL	11 x 50	75003733
15	T-75 Thermo Scientific™ Nunc™ EasYFlask™ Cell Culture Flasks (set of 2)	4 x T-75	–	75008383
16	T-25 Nunc EasYFlask cell culture flask (set of 2)	8 x T-25	–	75008384
17	Blood bag/ cell culture bag (<600 mL)	4 x 1 bags	–	75003427



¹ Rotor, buckets and lids sold separately.

* Compatible with Nunc #178905

** Compatible in open bucket configuration without biocontainment

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

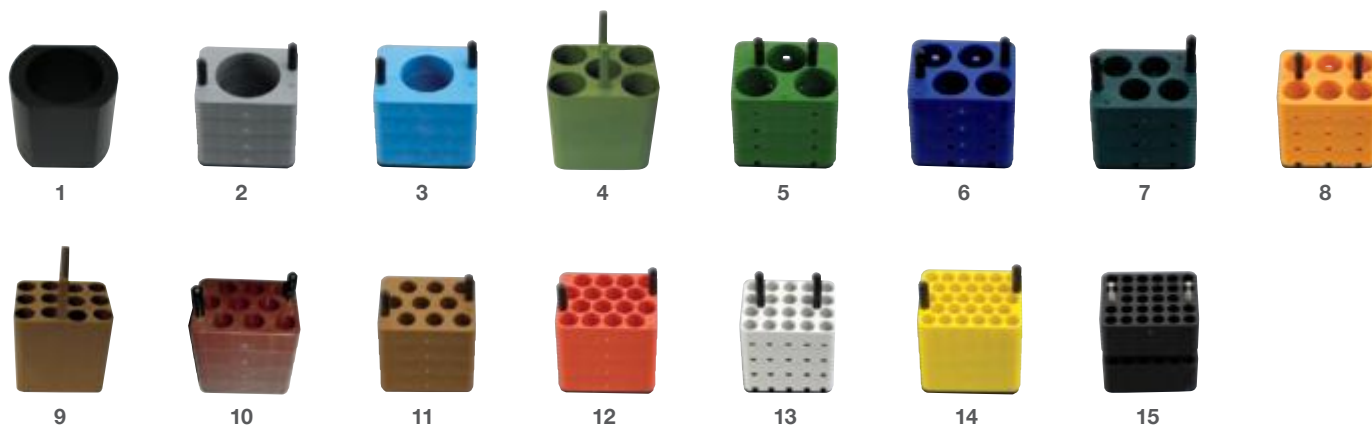


TX-750 swinging bucket rotor¹

90°, R_{max} 195 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4TR, X4FR, S4TR, S4FR 208–240V	4,700	4,816
X4T, S4T, 208–240V	4,500	4,415
X4T, X4TR, X4FR, S4T, S4TR, S4FR 120V	4,300	4,031
X4T, X4TR, X4FR 100V	4,100	3,665

Adapter image	Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories				
	TX-750 rotor cross with SlideCoat			75003180
	TX-750 rectangular buckets (set of 4)	4 x 250 mL		75003614
	TX-750 rectangular ClickSeal biocontainment lids (set of 4) ♦			75003615
Adapters for TX-750 rotor (sets of 4)				
1	250 mL flat bottom bottle	4 x 250 mL	63 x 130	75003737
2	150 mL round bottom open-top tube	4 x 150 mL	56 x 124	75003738
3	100 mL round bottom open-top tube	4 x 100 mL	46 x 124	75003742
4	50 mL conical tube	20 x 50 mL	30 x 121	75003685
5	50 mL round bottom tube	12 x 50 mL	35 x 121	75003749
6	45 mL flat/round tube	16 x 45 mL	30 x 121	75003750
7	30 mL Sterilin universal tube	16 x 30 mL	26 x 121	75003755
8	25 mL DIN round bottom tube	24 x 25 mL	26 x 121	75003756
9	15 mL conical tube	48 x 15 mL	17 x 120	75003684
10	14 mL flanged round bottom tube	36 x 14 mL	18 x 121	75003758
11	14 mL round or conical urine tube	36 x 15 mL	17 x 124	75003759
12	10 mL blood collection (16 x 100 mm) or 15 mL DIN tube	64 x 10/15 mL	17 x 118	75003767
13	5/7 mL or 4.5/6 mL blood collection tube	80 x 5/7 mL	14 x 118	75003768
14	5/7 mL round bottom tube (13 x 75–100 mm)	112 x 5/7 mL	13 x 119	75003769
15	1.5/2 mL microtube	224 x 2 mL	11 x 50	75003770



¹Rotor, buckets and lids sold separately.

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



BIOShield 1000A swinging bucket rotor

90°, R_{max} 178 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	6,000	7,164
S4T, S4TR, S4FR	5,300	5,590

Adapter image	Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories				
	BIOShield 1000A windshielded rotor with SlideCoat ♦	4 x 250 mL		75003182
Adapters for BIOShield 1000A rotor (sets of 4)				
1	250 mL flat bottom bottle	4 x 250 mL	63 x 130	75003737
2	150 mL round bottom open-top tube	4 x 150 mL	56 x 124	75003738
3	100 mL round bottom open-top tube	4 x 100 mL	46 x 124	75003742
4	50 mL round bottom tube	12 x 50 mL	35 x 121	75003749
5	45 mL flat/round tube	16 x 45 mL	30 x 121	75003750
6	30 mL Sterilin universal tube	16 x 30 mL	30 x 121	75003755
7	25 mL DIN round bottom tube	24 x 25 mL	26 x 121	75003756
8	14 mL flanged round bottom tube	36 x 14 mL	18 x 121	75003758
9	14 mL round or conical urine tube	36 x 15 mL	17 x 124	75003759
10	10 mL blood collection (16 x 100 mm) or 15 mL DIN Tube	64 x 10/15 mL	17 x 118	75003767
11	5/7 mL or 4.5/6 mL blood collection tube	80 x 5/7 mL	14 x 118	75003768
12	5/7 mL round bottom tube (13 x 75-100 mm)	112 x 5/7 mL	13 x 119	75003769
13	1.5/2 mL microtube	224 x 2 mL	11 x 50	75003770
14	50 mL conical tube	16 x 50 mL	30 x 121	75003643
15	15 mL conical tube	36 x 15 mL	17 x 120	75003642



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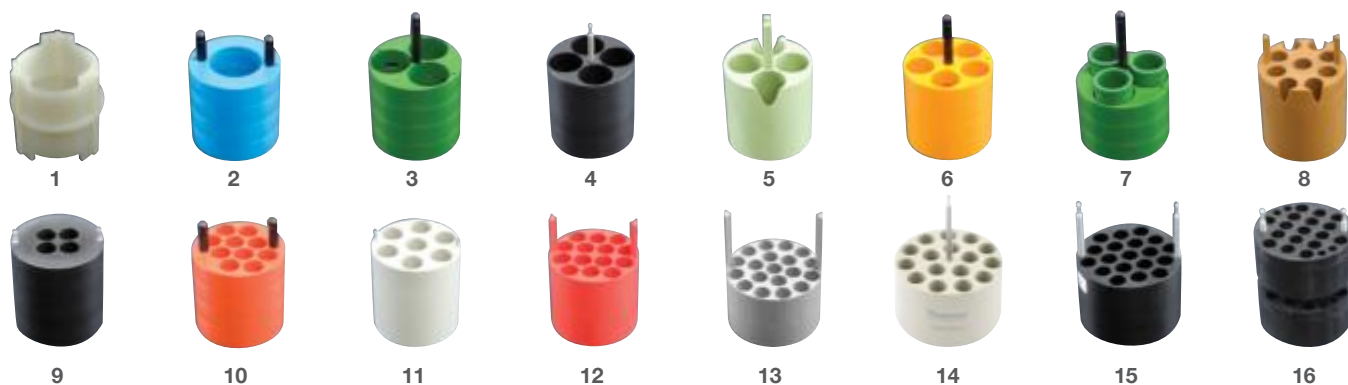


TX-400 swinging bucket rotor¹

90°, R_{max} 168 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X2T, X2TR	5,000	4,696
S2T, S2TR	5,000	4,696

Adapter image	Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories				
	TX-400 rotor cross with SlideCoat			75003181
	TX-400 round buckets (set of 4)	4 x 400 mL		75003655
	TX-400 round ClickSeal biocontainment lids (set of 4) ♦			75003656
	Replacement TX-400 O-rings for lids (set of 4)			75003657
	400 mL bio-bottle - polypropylene (set of 12)			75007585
Adapters for TX-400 rotor (sets of 4)				
	400 mL bio-bottle	4 x 400 mL	80 x 125	Direct
1	250 mL Nalgene bottle	4 x 250 mL	62 x 135	75003788
1	200 mL Nunc conical bottle (requires Nunc #377585)	4 x 200 mL	62 x 125	75003788
1	175 mL BD Falcon conical bottle (requires BD #352090)	4 x 175 mL	62 x 125	75003788
2	100 mL round bottom open-top tube	4 x 100 mL	45 x 117	75003708
3	50 mL DIN round bottom tube	12 x 50 mL	34.5 x 105	75003707
4	50 mL Nalgene Oak Ridge tube	16 x 50 mL	29.5 x 114	75003799
5	50 mL conical tube	16 x 50 mL	30 x 116	75003683
6	30/25 mL DIN round/flat bottom tube	20 x 30 mL	25.5 x 108	75003703
7	30 mL Sterilin universal tube	12 x 30 mL	25 x 110	75003706
8	15 mL conical tube	36 x 15 mL	17 x 121	75003682
9	15 mL blood collection tube (17 x 125 mm)	16 x 15 mL	17 x 131	75003794
10	15 mL round bottom tube (Sarstedt)	40 x 15 mL	17 x 105	75003704
11	14 mL round or conical urine tube	28 x 14 mL	17 x 112	75003798
12	10 mL blood collection (16 x 100 mm)	56 x 10/15 mL	16 x 113	75003681
13	5/7 mL blood collection tube (13 x 75-100 mm)	76 x 5/7 mL	13 x 110	75003680
14	4.5/6 mL blood collection tube (Greiner)	64 x 4.5/6 mL	13 x 110	75003825
15	3 mL RIA or round bottom tube	76 x 3/5 mL	11 x 110	75003793
16	1.5/2 mL microtube	136 x 2 mL	11 x 45	75003700



¹Rotor, buckets and lids sold separately.

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



BIOShield 720 swinging bucket rotor

90°, $R_{\max}$ 162 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X2T, X2TR	6,300	7,188
S2T, S2TR	5,300	5,088

Adapter image	Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories				
	BIOShield 720 with SlideCoat ♦	4 x 180 mL	n/a	75003183
	180 mL bio-bottle - polypropylene (set of 12)			75003800
BIOShield 720A adapters (sets of 4)				
1	180 mL bio-bottle	4 x 180 mL	56 x 128	75003693
2	100 mL round bottom open-top tube	4 x 100 mL	44 x 120	75003814
3	50 mL conical tube	8 x 50 mL	30 x 116	75003677
4	50 mL DIN round bottom tube	8 x 50 mL	34 x 109	75003816
5	30 mL Sterilin universal tube	16 x 30 mL	26 x 105	75003818
6	25 mL DIN round bottom tube	20 x 25 mL	25 x 107	75003817
7	15 mL conical tube	24 x 15 mL	17 x 120	75003678
8	15 mL Sarstedt tube	44 x 15 mL	17 x 103	75003820
9	10 mL blood collection tube (16 x 100 mm)	48 x 10 mL	17 x 105	75003701
10	5/7 mL blood collection tube (13 x 75-100 mm)	48 x 5/7 mL	13 x 106	75003821
11	5/7 mL round bottom open-top tube	80 x 5/7 mL	13 x 104	75003822



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TX-200 swinging bucket rotor¹

90°, R_{max} 165 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X2T, X2TR	5,500	5,580
S2T, ST2R	5,500	5,580

Adapter image	Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories				
	TX-200 rotor cross			75003658
	TX-200 round buckets (set of 4)	4 x 180 mL		75003659
	TX-200 round ClickSeal biocontainment lids (set of 4) ♦			75003660
	Replacement TX-200 O-rings for lids (set of 4)			75003687
	180 mL bio-bottle - polypropylene (set of 12)			75003800
Adapters for TX-200 rotor (sets of 4)				
	180 mL bio-bottle	4 x 180 mL	56.5 x 123	Direct
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 conical or skirted tube	4 x 50 mL	30 x 126	75003803
4	30 mL Sterilin universal tube	4 x 30 mL	26 x 118	75003804
5	25 mL DIN round/flat bottom tube	8 x 25 mL	25 x 118	75003805
7	15 mL conical tube	20 x 20 mL	17 x 121	75003771
8	15 mL blood collection tube	16 x 15 mL	17 x 121	75003809
9	14 mL conical urine tube	8 x 14 mL	17 x 114	75003807
10	10 mL blood collection (16 x 100 mm) or 15 mL Savant Corex/Kimble Tube	28 x 10/15 mL	17 x 121	75003808
11	5/7 mL or 4.5/6 mL blood collection tube (13 x 75–100 mm)	32 x 5/7 mL	13 x 122	75003785
12	5/7 mL round bottom open-top tube	36 x 5/7 mL	13 x 118	75003810
13	1.5/2 mL microtube	48 x 2 mL	11 x 45	75003812



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¹Rotor, buckets and lids sold separately.

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



H-Flex 1 swinging bucket rotor¹

90°, R_{max} 170 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X2T, X2TR	4,700	4,297
S2T, S2TR	4,700	4,297



H-Flex HS4 swinging bucket rotor¹

90°, R_{max} 170 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	6,100	7,197
S4T, S4TR, S4FR	6,100	7,197

Adapter image	Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories				
	H-Flex 1 rotor cross with SlideCoat			75003300
	H-Flex 1 rotor buckets (set of 2)			75003301
	H-Flex 1 rotor biocontainment lids (set of 2) ♦			75003302
	H-Flex 1 rotor biocontainment lid replacement O-Rings (set of 2)			75003309
	H-Flex HS4 rotor with SlideCoat ♦			75003330
	H-Flex HS4 replacement bucket (set of 2)			75003338
	H-Flex HS4 replacement windshield lid			75003339
Adapters for H-Flex 1 and HS4 rotor (sets of 2)				
1	50 mL conical tube	16 x 50 mL	30 x 126	75003303
2	15 mL conical tube	36 x 15 mL	17 x 121	75003304
3	10/12 mL blood collection tube (16 x 100 mm)	66 x 10/15 mL	16 x 110	75003305
4	5/7 mL blood collection tube (13 x 75-100 mm)	84 x 5/7 mL	13 x 108	75003306
5	Microplate carriers	2 x 5 standard microplate 2 x 1 deep well	<77 mm	75003307
6	H-Flex 1 rotor 400 mL bottle and Centri-lab BIOLink Adapter*	n/a	n/a	75003308



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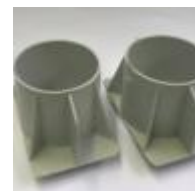
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¹Rotor, buckets and lids sold separately.

* 400 mL Bottle/Centrilab Adapter maximum speed is 3800 rpm and 2800 x g.

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



HIGHPlate 6000 swinging bucket rotor

90°, $R_{\max}$ 139 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	6,300	6,168

Description	Rotor capacity (places x volume, mL)	Maximum height	Cat. No.
Rotor			
HIGHPlate 6000 rotor ♦	2 x 5 Standard microplate or 2 x 1 filter plates	< 80 mm	75003606

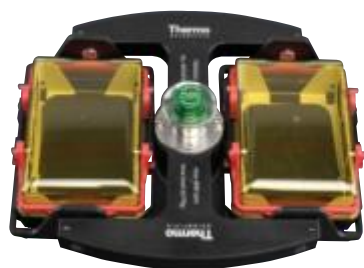


Fiberlite H3-LV swinging bucket rotor

90°, $R_{\max}$ 189 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	3,600	2,738

Description	Rotor capacity (places x volume, mL)	Maximum height	Cat. No.
Rotor			
Fiberlite H3-LV rotor	4 x 7 standard microplate or 2 x 4 deep well	< 100 mm	75003665



M-20 swinging bucket rotor¹

90°, $R_{\max}$ 127 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	4,000	2,272
S4T, S4TR, S4FR	4,000	2,272
X2T, X2TR	4,000	2,272
S2T, S2TR	4,000	2,272

Description	Rotor capacity (places x volume, mL)	Maximum height	Cat. No.
Rotor and accessories			
M-20 microplate rotor including standard open carriers	2 x 3 standard microplate	< 65 mm	75003624
ClickSeal carriers including carrier and lids ♦	2 x 1 deep well	< 45 mm	75003625
ClickSeal replacement lids (set of 2)			75002011

¹Biocontainment system sold separately.

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

Fixed angle rotors



Thermo Scientific rotor name		Fiberlite F14-6x250 LE	Fiberlite F15-6x100y	Fiberlite F10-6x100 LEX	Fiberlite F13-14x50cy	Fiberlite F15-8x50cy	CLINIConic
Maximum capacity (mL)		6 x 250 mL	6 x 100 mL	6 x 100 mL	14 x 50 mL	8 x 50 mL	30 x 15 mL
Maximum speed (rpm ¹)		11,000 rpm	15,000 rpm	10,500 rpm	10,000 rpm	14,500 rpm	5,650 rpm
Maximum RCF (x g ¹)		18,533 x g	24,652 x g	15,038 x g	17,105 x g	24,446 x g	4,997 x g
Biocontainment 		✓	✓	✓	✓	✓	
X4T, X4TR, X4FR		✓	✓	✓	✓	✓	
S4T, S4TR, S4FR			✓	✓			
X2T, X2TR			✓	✓	✓	✓	✓
S2T, S2TR			✓	✓			✓
Maximum capacity 	250 mL centrifuge bottle	6	–	–	–	–	–
	85 mL round bottom centrifuge tube	6	6	6	–	–	–
	50 mL round bottom centrifuge tube	6	6	6	14	8	–
	50 mL conical tube	6	6	6	14	8	–
	30 mL round bottom centrifuge tube	12	6	6	14	8	–
	16 mL round bottom centrifuge tube	30	6	6	14	8	–
	15 mL conical tube	30	6	6	14	8	30
	10 mL round bottom centrifuge tube	42	12	12	14	8	–
	10 mL blood collection tube (16 x 100 mm)	–	–	–	–	–	30
	5/7 mL blood collection tube (13 x 75-100 mm)	–	–	–	–	–	30
	6.5 mL round tube	–	12	12	–	–	–
	1.5/2 mL microtube	–	24	24	–	–	–

¹Maximum speed based on top performance models.

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

Note: Labware not shown to scale.

Fixed angle rotors (continued)



Thermo Scientific rotor name		8 x 50 Sealed	HIGHConic II	MicroClick 18 x 5	Fiberlite F21-48x2	Microliter 48 x 2	MicroClick 30 x 2	Microliter 30 x 2
Maximum capacity (mL)		8 x 50 mL	6 x 100 mL	18 x 5 mL	48 x 2 mL	48 x 2 mL	30 x 2 mL	30 x 2 mL
Maximum speed (rpm ¹)		6,700 rpm	10,350 rpm	15,000 rpm	15,200 rpm	15,200 rpm	14,000 rpm	15,200 rpm
Maximum RCF (x g ¹)		7,177 x g	15,090 x g	24,652 x g	25,055 x g	25,314 x g	21,693 x g	25,830 x g
Biocontainment 		√ (Individual)	√	√	√	√	√	√
X4T, X4TR, X4FR			√	√	√	√	√	√
S4T, S4TR, S4FR			√	√	√	√	√	√
X2T, X2TR		√	√	√	√	√	√	√
S2T, S2TR		√	√	√	√	√	√	√
Maximum capacity 	250 mL centrifuge bottle	–	–	–	–	–	–	–
	 85 mL round bottom centrifuge tube	–	6	–	–	–	–	–
	 50 mL round bottom centrifuge tube	8	6	–	–	–	–	–
	 50 mL conical tube	8	6	–	–	–	–	–
	 30 mL round bottom centrifuge tube	8	6	–	–	–	–	–
	 16 mL round bottom centrifuge tube	8	6	–	–	–	–	–
	 15 mL conical tube	8	6	–	–	–	–	–
	 10 mL round bottom centrifuge tube	8	12	–	–	–	–	–
	 10 mL blood collection tube (16 x 100 mm)	8	–	–	–	–	–	–
	 5/7 mL blood collection tube (13 x 75-100 mm)	8	–	–	–	–	–	–
	 6.5 mL round tube	8	12	–	–	–	–	–
	 1.5/2 mL microtube	16	24	18	48	48	30 (Including spin columns)	30
	 5 mL microtube	8	–	18	–	–	–	–
	 PCR tube	–	–	–	48	48	30	30

¹ Maximum speed based on top performance models.

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

Note: Labware not shown to scale.

Rotors and adapters for fixed angle rotors



Fiberlite F14-6x250 LE fixed angle rotor

23°, R_{max} 137 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR 230V	11,000	18,533
X4T, X4TR, X4FR 100V, 120V	10,000	15,317

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
Fiberlite F14-6 x 250LE rotor for 250 mL centrifuge bottles ♦	6 x 250 mL	62 x 125	75003662
Replacement O-ring kit			021-062153
250 mL Thermo Scientific™ Nalgene™ Polypropylene Bottle (case of 36)			3141-0250
250 mL Thermo Scientific™ Nalgene™ Polycarbonate Bottle (case of 36)			3140-0250
Adapters for F14-6 x 250LE rotor (sets of 2, unless stated otherwise)			
85 mL Nalgene Oak Ridge tube	6 x 85 mL	38 x 109	010-1119
50 mL Nalgene Oak Ridge tube	6 x 50 mL	29.5 x 121	010-0138
50 mL conical tube	6 x 50 mL	30 x 121	75100136
30 mL Nalgene Oak Ridge tube / 38 mL round tube	12 x 30 mL	26 x 105	010-1072
16 mL Nalgene Oak Ridge tube	30 x 16 mL	18 x 107	010-1074
15 mL conical tube	30 x 15 mL	17 x 121	010-1410
10 mL Nalgene Oak Ridge tube / 12 mL round tube (each)	42 x 10 mL	17 x 110	00389

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



Fiberlite F15-6x100y fixed angle rotor

25°, $R_{\max}$ 98 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	15,000	24,652
S4T, S4TR, S4FR	14,000	21,475
X2T, X2TR	15,000	24,652
S2T, S2TR	13,000	18,516



Fiberlite F10-6x100 LEX fixed angle rotor

45°, $R_{\max}$ 122 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	10,500	15,038
S4T, S4TR, S4FR	10,500	15,038
X2T, X2TR	10,500	15,038
S2T, S2TR	10,500	15,038

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
Fiberlite F15-6 x 100y rotor for 100 mL/85 mL Nalgene ♦	6 x 100 mL	38 x 106	75003698
Replacement O-ring kit			021-069031
Fiberlite F10-6 x 100 LEX rotor for 100 mL/85 mL Nalgene ♦	6 x 100 mL	38 x 106	75003340
Replacement O-ring kit			021-069035
85 mL Nalgene Oak Ridge tube (set of 50)	6 x 85 mL	38 x 106	3118-0085
Adapters for F15-6 x 100y and F10-6x100 LEX rotor (each, unless stated otherwise)			
50 mL Nalgene Oak Ridge tube (set of 2)	6 x 50 mL	29.5 x 117	010-1194
50 mL conical tube (set of 2)	6 x 50 mL	30 x 121	010-1270
30 mL Nalgene Oak Ridge tube / 38 mL round tube (set of 2)	6 x 30 mL	26 x 110	010-1273
16 mL Nalgene Oak Ridge tube (set of 2)	6 x 16 mL	18 x 123	010-1272
15 mL conical tube (set of 2)	6 x 15 mL	17 x 123	010-1271
10 mL Nalgene Oak Ridge tube / 12 mL round tube	12 x 12 mL	17 x 95	75003093
6.5 mL round bottom tube	12 x 6.5 mL	13 x 114	75003092
3 mL vacutainer / round bottom tube (set of 2)	18 x 3 mL	10 x 64	010-1126
1.5/ 2 mL microtube	24 x 2 mL	11 x 40	75003091

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



Fiberlite F13-14x50cy fixed angle rotor

34°, R_{max} 153 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR 230V	10,000	17,105
X4T, X4TR, X4FR 120V	9,250	14,636
X2T, X2TR	8,500	12,359

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
Fiberlite F13-14x50cy for 50 mL conical tubes ♦	14 x 50 mL	30 x 121	75003661
Replacement O-ring kit			021-149027
Adapters for F13-14x50cy rotor (set of 2, unless otherwise stated)			
50 mL Nalgene Oak Ridge tube	14 x 50 mL	29.5 x 108	010-0377
30 mL Nalgene Oak Ridge tube	14 x 30 mL	26 x 102	010-1147
16 mL Nalgene Oak Ridge tube	14 x 16 mL	18 x 123	010-0376
15 mL Corning conical tube	14 x 15 mL	17 x 121	75100378
15 mL Nunc conical tube and filtration devices	14 x 15 mL	17 x 121	010-1340
10 mL Nalgene Oak Ridge tube / 12 mL round tube	28 x 12 mL	17 x 95	010-1311



Fiberlite F15-8x50cy fixed angle rotor

25°, R_{max} 104 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4TR, X4FR	14,500	24,446
X2T, X2TR 230V	14,500	24,446
X2T, X2TR 120V	14,000	22,789

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
Fiberlite F15-8x50cy for 50 mL conical tubes ♦	8 x 50 mL	30 x 121	75003663
Replacement O-ring kit			021-085077
Adapters for F15-8x50cy rotor (set of 2, unless otherwise stated)			
50 mL Nalgene Oak Ridge tube	8 x 50 mL	29 x 108	010-0377
30 mL Nalgene Oak Ridge tube	8 x 30 mL	26 x 102	010-1147
16 mL Nalgene Oak Ridge tube	8 x 16 mL	18 x 123	010-0376
15 mL Corning conical tube	8 x 15 mL	17 x 121	75100378
15 mL Nunc conical tube and filtration devices	8 x 15 mL	17 x 121	010-1340
10 mL Nalgene Oak Ridge tube / 12 mL round tube	8 x 12 mL	17 x 95	010-1311



CLINIConic fixed angle rotor

37°, R_{max} 140 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X2T, X2TR	5,650	4,997
S2T, S2TR	5,650	4,997

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
CLINIConic fixed angle rotor for 15 mL round and conical tubes	30 x 15 mL	17 x 121	75003623
Adapters for CLINIConic rotor (each)			
10 mL round bottom tube	30 x 10 mL	17 x 131	75003702
7 mL blood collection tubes (13 x 100 mm)	30 x 7 mL	17 x 131	11172596
5 mL blood collection tubes (13 x 75 mm)	30 x 5 mL	13 x 95	11172595



8 x 50 individually sealed fixed angle rotor

45°, R_{max} 143 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X2T, X2TR	6,700	7,177
S2T, S2TR	6,700	7,177

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
8 x 50 individually sealed for 50 mL conical tubes ♦	8 x 50 mL	30 x 121	75003694
50 mL sealed single bucket replacement, each			75003787
Adapters for 8 x 50 sealed rotor (set of 2)			
38 mL round bottom tube	8 x 50 mL	25.5 x 110	75005802
16 mL round bottom tube	8 x 16 mL	18 x 123	75005803
15 mL conical tube adapters	8 x 50 mL	17 x 121	75005808
10 mL blood collection tube (16 x 100 mm)	8 x 10 mL	16 x 110	75005804
7 mL blood collection tube (13 x 100 mm)	8 x 7 mL	13 x 110	75005805
5 mL conical microtube	8 x 5 mL	17 x 75	75005770
3.5 mL blood collection tube	16 x 3.5 mL	11 x 75	75005806
1.5/2 mL microtube	16 x 2 mL	11 x 40	75005807

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



HIGHConic II aluminium fixed angle rotor

45°, R_{max} 126 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	10,350	15,090
S4T, S4TR, S4FR	10,350	15,090
X2T, X2TR	10,350	15,090
S2T, S2TR	10,350	15,090

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
HIGHConic fixed angle rotor for 100 mL/85 mL Nalgene Oak Ridge tube ♦	6 x 100 mL	38 x 123	75003620
Replacement O-ring kit			75003058
85 mL Nalgene Oak Ridge tube (case of 100)	6 x 85 mL	38 x 106	3118-0085
Adapters for HIGHConic rotor (each, unless stated)			
50 mL Nalgene Oak Ridge tube	6 x 50 mL	30 x 117	75003102
50 mL conical tube	6 x 50 mL	30 x 121	75003103
30 mL Nalgene Oak Ridge tube / 38 mL round tube	6 x 30 mL	26 x 110	75003094
16 mL Nalgene Oak Ridge tube	6 x 16 mL	18 x 123	76002906
15 mL conical tube	6 x 15 mL	17 x 123	75003095
10 mL Nalgene Oak Ridge tube / 12 mL round tube	12 x 12 mL	17 x 95	75003093
6.5 mL round bottom tube	12 x 6.5 mL	13 x 114	75003092
1.5/2 mL microtube	24 x 2 mL	11 x 40	75003091



MicroClick 18x5 aluminum fixed angle rotor

45°, R_{max} 102 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	15,000	24,652
S4T, S4TR, S4FR	15,000	24,652
X2T, X2TR	15,000	24,652
S2T, S2TR	15,000	24,652

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
18 x 5 MicroClick rotor for 5 mL conical and flip top tubes ♦	18 x 5 mL	17 x 62	75005765
Replacement O-ring kit			75005726
Adapter for MicroClick rotor (set of 2)			
1.5/2 mL microtube	18 x 5	11 x 45	75005756

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



Fiberlite F21-48x2 fixed angle rotor

45°, R_{max} 97 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	15,200	25,055
S4T, S4TR, S4FR	15,200	25,055
X2T, X2TR	15,200	25,055
S2T, S2TR	15,200	25,055

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
Fiberlite F21-48 x 2 for 1.5/2 mL microtubes ♦	48 x 2 mL	11 x 50	75003664
Replacement O-ring kit			021-489021
Adapter for F21-48x2 rotor (set of 24)			
1.2 mL PCR tube		5 x 20	76003750



Microliter 48 x 2 aluminium fixed angle rotor

45°, R_{max} 98 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	15,200	25,314
S4T, S4TR, S4FR	15,200	25,314
X2T, X2TR	15,200	25,314
S2T, S2TR	15,200	25,314

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
48 x 2 aluminum for 1.5/2 mL microtubes ♦	48 x 2 mL	11 x 50	75003602
Replacement O-ring kit			75003349



MicroClick 30 x 2 aluminum fixed angle rotor

45°, R_{max} 99 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	14,000	21,693
S4T, S4TR, S4FR	14,000	21,693
X2T, X2TR	14,000	21,693
S2T, S2TR	14,000	21,693

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
30 x 2 MicroClick for 1.5/2 mL microtubes and spin columns ♦	30 x 2 mL	11 x 50	75005719
Replacement O-ring kit			75005726



Microliter 30 x 2 Aluminum Fixed Angle Rotor

45°, R_{max} 100 mm

Centrifuge	Maximum speed (rpm)	Maximum RCF (x g)
X4T, X4TR, X4FR	15,200	25,830
S4T, S4TR, S4FR	15,200	25,830
X2T, X2TR	15,200	25,830
S2T, S2TR	15,200	25,830

Description	Rotor capacity (places x volume, mL)	Maximum tube dimensions (Ø x L, mm)	Cat. No.
Rotor and accessories			
30 x 2 aluminum for 1.5/2 mL microtubes 	30 x 2 mL	11 x 50	75003652
Replacement O-Ring kit			75003349
Adapters for MicroClick 30 x 2, Microliter 30 x 2 and Microliter 48 x 2 rotors (set of 30)			
0.5 mL microtube		8 x 44	75005753
0.25 mL microtube		6 x 46	75005754
0.2 mL PCR tube		5 x 20	75005752

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

Connectivity

SECURE-Spin mode



Description	Cat. No.
Software and accessories	
SECURE-Spin mode	75009990
Centri-Log Plus Software*† (requires SECURE-Spin mode)	75007742
Sample tracking kit* (requires Centri-Log Plus software)	- For floor-standing centrifuges (barcode scanner, holder, and cable) 75007740 - For benchtop centrifuges (barcode scanner and cable) 75007743
Network access kit* (cable)	75007741

* Product sold separately.

† Centri-Log Plus software version must be at least 2.12.0.

X4T and X4TR centrifuges



4 L benchtop centrifuges (X series): specifications and ordering information

Specifications	X4T		X4TR	
	IVD-MD	General use only	IVD-MD	General use only
Swinging buckets rotors				
Maximum capacity	4 x 1,000 mL with TX-1000 rotor			
Maximum speed	6,100 rpm with H-Flex HS4 rotor			
Maximum RCF	7,196 x g with H-Flex HS4 rotor			
Fixed angle rotors				
Maximum capacity	6 x 250 mL with F14-6 x 250LE rotor			
Maximum speed	15,200 rpm with F21-48 x 2, Microliter 48 x 2 or Microliter 30 x 2			
Maximum RCF	25,830 x g with Microliter 30 x 2			
Centrifuge details				
Control system	Microprocessor			
Drive system	Direct, brushless induction low profile motor			
Accel/decel profiles	Choices of 9 accel / 10 decel rates			
Material	Front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber			
Safety features	SMARTSpin imbalance detection, finger-pinch prevention, crash-proof construction			
Sustainability features	Green Mode, scheduling features, greener rotor options		GreenCool technology, Green Mode, scheduling features, greener rotor options	
Noise level ¹	<50 dB(A)		<51 dB(A)	
Warranty	5-years limited (2-years standard warranty + 3 additional years on motor and refrigeration)			
Includes	Corrosion resistance oil (70009824), power cord, declaration of conformity (where applicable)			
Temperature range	N/A		–20°C to +40°C	
Number of compatible rotors	18			
Display details				
Display	Full color touchscreen interface			
Run time	Max 99h, 59min, 59sec; also with continuous and customizable pulse			
Speed	Increments of 1 rpm / 1 x g			
Timer	Count up or down in increments of 1 second			
Temperature	N/A		Sample temperature in increments of 1 degree	
Program storage	Up to 100 run programs with step programming			
Programmability	Via easy access touchscreen menu			
Dimensions, weight				
Dimensions HxWxD lid closed (cm)	36.2 x 56.6 x 69.0		36.1 x 74.6 x 69.5	
Height lid open (cm)	86.1		86.0	
Dimensions HxWxD lid closed (in.)	14.3 x 22.3 x 27.2		14.2 x 29.4 x 27.2	
Height lid open (in.)	33.9		33.9	
Net weight (kg)	89.0		125.0 (129.0 for 100 V)	
Net weight (lbs)	196.2		275.6	
Gross weight (kg)	110.0		147.0 (151.0 for 100 V)	
Gross weight (lbs)	242.6		324.1	
Certifications and standards				
IVD/MD	√		√	
Certifications	All models: IEC/UL/EN 61010-1, IEC/UL/EN 61010-2-020, IEC/UL/EN 61326-1, FCC part 15 Additional certification for refrigerated models: IEC/UL/EN 61010-2-011 Additional certifications for IVD-MD models: IEC/UL/EN 61010-2-101, IEC/UL/EN 61326-2-6			
Standards/directives	ISO 14971, ISO 13485, ISO 9001 Additional directives for IVD-MD models: FDA listed, Device Class 1, EU IVDR class A			
Cleanroom compatibility	Class ISO 6 according to DIN EN ISO 14644-1			
Ordering information	X4T		X4TR	
	IVD-MD	General use only	IVD-MD	General use only
220–240 V 50/60 Hz (Global)	75007341*	75007343	75007365*	75007366
208–240 V 60 Hz (North America only)	75007341*	N/A	75007364*§	N/A
120 V 60 Hz (Global)	75007340*	N/A	75007364*	N/A
100 V 50/60 Hz (Japan only)	N/A	75007339	N/A	75007363

1. Noise level measured with TX-1000 rotor at 1,000 x g/ 2,070 rpm.

*Indicates a centrifuge, rotor and/or adapter product approved for use in diagnostic applications; see user manual for details.

§ Refrigerated models are rated to be used with 120 V – 240 V, 60 Hz power sources and will include both the NEMA 5–15P (120 V) and NEMA 6–15P (208 V) plug heads.

S4T and S4TR centrifuges



4 L benchtop centrifuges (S series): specifications and ordering information

Specifications	S4T		S4TR	
	IVD-MD	General use only	IVD-MD	General use only
Swinging buckets rotors				
Maximum capacity	4 x 1,000 mL with TX-1000 rotor			
Maximum speed	6,100 rpm with H-Flex HS4 rotor			
Maximum RCF	7,196 x g with H-Flex HS4 rotor			
Fixed angle rotors				
Maximum capacity	6 x 100 mL with F15-6x100y or F10-6 x 100 LEX rotor			
Maximum speed	15,200 rpm with F21-48 x 2, Microliter 48 x 2 or Microliter 30 x 2			
Maximum RCF	25,830 x g with Microliter 30 x 2			
Centrifuge details				
Control system	Microprocessor			
Drive system	Direct, brushless induction low profile motor			
Accel/decel profiles	Choices of 9 accel / 10 decel rates			
Material	Front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber			
Safety features	SMARTSpin imbalance detection, finger-pinch prevention, crash-proof construction			
Sustainability features	LCD powersave mode, greener rotor options		GreenCool technology, LCD powersave mode, greener rotor options	
Noise level ¹	<50 dB(A)		<51 dB(A)	
Warranty	5-years limited (2-years standard warranty + 3 additional years on motor and refrigeration)			
Includes	Corrosion resistance oil (70009824), power cord, declaration of conformity (where applicable)			
Temperature range	N/A		–20°C to +40°C	
Number of compatible rotors	13			
Display details				
Display	Push button and high contrast LCD interface			
Run time	Max 9h, 59min; also with continuous and pulse modes			
Speed	Increments of 50 rpm / 50 x g			
Timer	Count down only in increments of 1 second (from 9 min 59 seconds) and in increments of 1 minute (>10 min)			
Temperature	N/A		Sample temperature in increments of 1 degree	
Program storage	Up to 6 run programs			
Programmability	Via 6 direct access buttons			
Dimensions, weight				
Dimensions HxWxD lid closed (cm)	36.2 x 56.6 x 69.0		36.1 x 74.6 x 69.5	
Height lid open (cm)	86.1		86.0	
Dimensions HxWxD lid closed (in.)	14.3 x 22.3 x 27.2		14.2 x 29.4 x 27.2	
Height lid open (in.)	33.9		33.9	
Net weight (kg)	89.0		125.0 (129.0 for 100V)	
Net weight (lbs)	196.2		275.6	
Gross weight (kg)	110.0		147.0 (151.0 for 100V)	
Gross weight (lbs)	242.6		324.1	
Certifications and standards				
IVD/MD	√		√	
Certifications	All models: IEC/UL/EN 61010-1, IEC/UL/EN 61010-2-020, IEC/UL/EN 61326-1, FCC part 15 Additional certification for refrigerated models: IEC/UL/EN 61010-2-011 Additional certifications for IVD-MD models: IEC/UL/EN 61010-2-101, IEC/UL/EN 61326-2-6			
Standards/directives	ISO 14971, ISO 13485, ISO 9001 Additional directives for IVD-MD models: FDA listed, Device Class 1, EU IVDR class A			
Cleanroom compatibility	Class ISO 6 according to DIN EN ISO 14644-1			
Ordering information	S4T		S4TR	
	IVD-MD	General use only	IVD-MD	General Use Only
220–240 V 50/60 Hz (Global)	75007332*	75007333	75007357*	75007358
208–240 V 60 Hz (North America only)	75007332*	N/A	75007356*§	N/A
120 V 60 Hz (Global)	75007331*	N/A	75007356*	N/A
100 V 50/60 Hz (Japan only)	N/A	N/A	N/A	N/A

1. Noise level measured with TX-1000 rotor at 1,000 x g/ 2,070 rpm.

*Indicates a centrifuge, rotor and/or adapter product approved for use in diagnostic applications; see user manual for details.

§ Refrigerated models are rated to be used with 120 V-240 V, 60 Hz power sources and will include both the NEMA 5–15P (120 V) and NEMA 6–15P (208 V) plug heads.

X4FR centrifuge



4 L Floor model centrifuges (X series): specifications and ordering information

Specifications	X4FR	
	IVD-MD	General use only
Swinging buckets rotors		
Maximum capacity	4 x 1,000 mL with TX-1000 rotor	
Maximum speed	6,100 rpm with H-Flex HS4 rotor	
Maximum RCF	7,196 x g with H-Flex HS4 rotor	
Fixed angle rotors		
Maximum capacity	6 x 250 mL with F14-6 x 250LE rotor	
Maximum speed	15,200 rpm with F21-48 x 2, Microliter 48 x 2 or Microliter 30 x 2	
Maximum RCF	25,830 x g with Microliter 30 x 2	
Centrifuge details		
Control system	Microprocessor	
Drive system	Direct, brushless induction low profile motor	
Accel/decel profiles	Choices of 9 accel / 10 decel rates	
Material	Front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: lockable casters	
Safety features	SMARTSpin imbalance detection, finger-pinch prevention, crash-proof construction	
Sustainability features	GreenCool technology, Green Mode, scheduling features, greener rotor options	
Noise level ¹	<54 dB(A)	
Warranty	5-years limited (2-years standard warranty + 3 additional years on motor and refrigeration)	
Includes	Corrosion resistance oil (70009824), power cord, declaration of conformity (where applicable)	
Temperature range	–20°C to +40°C	
Number of compatible rotors	18	
Display details		
Display	Full color touchscreen interface	
Run time	Max 99h, 59min, 59sec; also with continuous and customizable pulse	
Speed	Increments of 1 rpm / 1 x g	
Timer	Count up or down in increments of 1 second	
Temperature	Sample temperature in increments of 1 degree	
Program storage	Up to 100 run programs with step programming	
Programmability	Via easy access touchscreen menu	
Dimensions, weight		
Dimensions HxWxD lid closed (cm)	83.5 x 56.4 x 69.6 cm	
Height lid open (cm)	135.0	
Dimensions HxWxD lid closed (in.)	32.9 x 22.2 x 27.2	
Height lid open (in.)	53.1	
Net weight (kg)	155 (159 for 100V)	
Net weight (lbs)	341.8	
Gross weight (kg)	188 (192 for 100V)	
Gross weight (lbs)	414.5	
Certifications and standards		
IVD/MD	√	
Certifications	IEC/UL/EN 61010-1, IEC/UL/EN 61010-2-020, IEC/UL/EN 61326-1, FCC part 15, IEC/UL/EN 61010-2-011, IEC/UL/EN 61010-2-101, IEC/UL/EN 61326-2-6	IEC/UL/EN 61010-1, IEC/UL/EN 61010-2-020, IEC/UL/EN 61326-1, FCC part 15, IEC/UL/EN 61010-2-011
Standards/directives	ISO 14971, ISO 13485, ISO 9001, FDA listed, Device Class 1, EU IVDR class A	ISO 14971, ISO 13485, ISO 9001
Cleanroom compatibility	Class ISO 8 according to DIN EN ISO 14644-1	
Ordering information	X4FR	
	IVD-MD	General use only
220–240 V 50/60 Hz (Global)	75007361*	75007362
208–240 V 60 Hz (North America only)	75007360*§	N/A
120 V 60 Hz (Global)	75007360*	N/A
100 V 50/60 Hz (Japan only)	N/A	75007359

1. Noise level measured with TX-1000 rotor at 1,000 x g/ 2,070 rpm.

*Indicates a centrifuge, rotor and/or adapter product approved for use in diagnostic applications; see user manual for details.

§ Refrigerated models are rated to be used with 120 V-240 V, 60 Hz power sources and will include both the NEMA 5–5P (120 V) and NEMA 6–15P (208 V) plug heads.

S4FR centrifuge



4 L Floor model centrifuges (S series): specifications and ordering information

Specifications	S4FR	
	IVD-MD	General use only
Swinging buckets rotors		
Maximum capacity	4 x 1,000 mL with TX-1000 rotor	
Maximum speed	6,100 rpm with H-Flex HS4 rotor	
Maximum RCF	7,196 x g with H-Flex HS4 rotor	
Fixed angle rotors		
Maximum capacity	6 x 100 mL with F15-6x100y or F10-6 x 100 LEX rotor	
Maximum speed	15,200 rpm with F21-48 x 2, Microliter 48 x 2 or Microliter 30 x 2	
Maximum RCF	25,830 x g with Microliter 30 x 2	
Centrifuge details		
Control system	Microprocessor	
Drive system	Direct, brushless induction low profile motor	
Accel/decel profiles	Choices of 9 accel / 10 decel rates	
Material	Front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: lockable casters	
Safety features	SMARTSpin imbalance detection, finger-pinch prevention, crash-proof construction	
Sustainability features	GreenCool technology, LCD powersave mode, greener rotor options	
Noise level ¹	<54 dB(A)	
Warranty	5-years limited (2-years standard warranty + 3 additional years on motor and refrigeration)	
Includes	Corrosion resistance oil (70009824), power cord, declaration of conformity (where applicable)	
Temperature range	–20°C to +40°C	
Number of compatible rotors	13	
Display details		
Display	Push button and high contrast LCD interface	
Run time	Max 9h, 59min; also with continuous and pulse modes	
Speed	Increments of 50 rpm / 50 x g	
Timer	Count down only in increments of 1 second (from 9 min 59 seconds) and in increments of 1 minute (>10 min)	
Temperature	Sample temperature in increments of 1 degree	
Program storage	Up to 6 run programs	
Programmability	Via 6 direct access buttons	
Dimensions, weight		
Dimensions HxWxD lid closed (cm)	83.5 x 56.4 x 69.6 cm	
Height lid open (cm)	135.0	
Dimensions HxWxD lid closed (in.)	32.9 x 22.2 x 27.2	
Height lid open (in.)	53.1	
Net weight (kg)	155 (159 for 100V)	
Net weight (lbs)	341.8	
Gross weight (kg)	188 (192 for 100V)	
Gross weight (lbs)	414.5	
Certifications and standards		
IVD/MD	✓	
Certifications	IEC/UL/EN 61010-1, IEC/UL/EN 61010-2-020, IEC/UL/EN 61326-1, FCC part 15, IEC/UL/EN 61010-2-011, IEC/UL/EN 61010-2-101, IEC/UL/EN 61326-2-6	IEC/UL/EN 61010-1, IEC/UL/EN 61010-2-020, IEC/UL/EN 61326-1, FCC part 15, IEC/UL/EN 61010-2-011
Standards/directives	ISO 14971, ISO 13485, ISO 9001, FDA listed, Device Class 1, EU IVDR class A	ISO 14971, ISO 13485, ISO 9001
Cleanroom compatibility	Class ISO 8 according to DIN EN ISO 14644-1	
Ordering information	S4FR	
	IVD-MD	General use only
220–240 V 50/60 Hz (Global)	75007353*	75007354
208–240 V 60 Hz (North America only)	75007352*§	N/A
120 V 60 Hz (Global)	75007352*	N/A
100 V 50/60 Hz (Japan only)	N/A	N/A

1. Noise level measured with TX-1000 rotor at 1,000 x g/ 2,070 rpm.

*Indicates a centrifuge, rotor and/or adapter product approved for use in diagnostic applications; see user manual for details.

§ Refrigerated models are rated to be used with 120 V-240 V, 60 Hz power sources and will include both the NEMA 5–15P (120 V) and NEMA 6–15P (208 V) plug heads.

X2T and X2TR centrifuges



1.6 L Benchtop centrifuges (X Series): specifications and ordering information

Specifications	X2T		X2TR	
	IVD	General use only	IVD	General use only
Swinging buckets rotors				
Maximum capacity	4 x 400 mL with TX-400 rotor			
Maximum speed	6,300 rpm with BIOShield 720 rotor			
Maximum RCF	7,188 x g with BIOShield 720 rotor			
Fixed angle rotors				
Maximum capacity	6x100 mL with F15 6 x 100y			
Maximum speed	15,200 rpm with F21-48 x 2, Microliter 48 x 2 or Microliter 30 x 2			
Maximum RCF	25,830 x g with Microliter 30 x 2			
Centrifuge details				
Control system	Microprocessor			
Drive system	Direct, brushless induction low profile motor			
Accel/decel profiles	Choices of 9 accel / 10 decel rates			
Material	Front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber			
Safety features	SMARTSpin imbalance detection, finger-pinch prevention, crash-proof construction			
Warranty	5-years limited (2-years standard warranty + 3 additional years on motor and refrigeration)			
Includes	Printed English user manual, USB stick with 28 languages of user manual, corrosion resistance oil (70009824), power cord, declaration of conformity			
Temperature range	N/A		–20°C to +40°C	
Number of compatible rotors	17		17	
Display details				
Display	Full color touchscreen interface			
Run time	Max 99h, 59min, 59sec; also with continuous and customizable pulse			
Speed	Increments of 1 rpm / 1 x g			
Timer	Count up or down in increments of 1 second			
Temperature	N/A		Sample temperature in increments of 1 degree	
Program storage	Up to 100 run programs with step programming			
Programmability	Via easy access touchscreen menu			
Dimensions, weight				
Dimensions H x W x D lid closed (cm)	36.2 x 44.5 x 66		36.1 x 62.5 x 66	
Height lid open (cm)	85.5		85.5	
Dimensions H x W x D lid closed (in.)	14.3 x 17.5 x 26		14.2 x 24.6 x 26	
Height lid open (in.)	33.6		33.6	
Net weight (lbs)	134		202	
Net weight (kgs)	61		94 (96 for 100 V)	
Gross weight	75 kg (165 lbs)		108 kg (233 lbs)	
Certifications and standards				
IVD/MD	√		√	
Certifications	All models: IEC/UL/EN 61010-1, IEC/UL/EN 61010-2-020, IEC/UL/EN 61326-1, FCC part 15 Additional certification for refrigerated models: IEC/UL/EN 61010-2-011 Additional certifications for IVD-MD models: IEC/UL/EN 61010-2-101, IEC/UL/EN 61326-2-6			
Standards/directives	ISO 14971, ISO 13485, ISO 9001 Additional directives for IVD-MD models: FDA listed, Device Class 1, EU IVDR class A			
Ordering information	X2T		X2TR	
	IVD	General use only	IVD	General use only
230 V	75001042*	75001043	75001048*	75001039
120 V	75001042*	N/A	75001047*	N/A
100 V	75001042*	75001043	N/A	75001049

*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details.

S2T and S2TR centrifuges



1.6 L Benchtop centrifuges (S series): specifications and ordering information

Specifications	S2T		S2TR	
	IVD	General use only	IVD	General use only
Swinging buckets rotors				
Maximum capacity	4 x 400 mL with TX-400 rotor			
Maximum speed	5,500 rpm with TX-200 rotor			
Maximum RCF	5,580 x g with TX-200 rotor			
Fixed angle rotors				
Maximum capacity	6 x 100 mL with F15 6 x 100y			
Maximum speed	15,200 rpm with F21-48 x 2, Microliter 48 x 2 or Microliter 30 x 2			
Maximum RCF	25,830 x g with Microliter 30 x 2			
Centrifuge details				
Control system	Microprocessor			
Drive system	Direct, brushless induction low profile motor			
Accel/decel profiles	Choices of 9 accel / 10 decel rates			
Material	Front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber			
Safety features	SMARTSpin imbalance detection, finger-pinch prevention, crash-proof construction			
Warranty	5-years limited (2-years standard warranty + 3 additional years on motor and refrigeration)			
Includes	Printed English user manual, USB stick with 28 languages of user manual, corrosion resistance oil (70009824), power cord, declaration of conformity			
Temperature range	N/A		-20°C to +40°C	
Number of compatible rotors	15		15	
Display details				
Display	Push button and high contrast LCD interface			
Run time	Max 9h, 59min; also with continuous and pulse modes			
Speed	Increments of 50 rpm / 50 x g			
Timer	Count down only in increments of 1 second (from 9 min 59 seconds) and in increments of 1 minute (>10 min)			
Temperature	N/A		Sample temperature in increments of 1 degree	
Program storage	Up to 6 run programs			
Programmability	Via 6 direct access buttons			
Dimensions, weight				
Dimensions H x W x D lid closed (cm)	36.2 x 44.5 x 66		36.1 x 62.5 x 66	
Height lid open (cm)	85.5		85.5	
Dimensions H x W x D lid closed (in.)	14.3 x 17.5 x 26		14.2 x 24.6 x 26	
Height lid open (in.)	33.6		33.6	
Net weight (lbs)	134		202	
Net weight (kgs)	61		94 (96 for 100 V)	
Gross weight	75 kg (165 lbs)		108 kg (233 lbs)	
Certifications and standards				
IVD/MD	√		√	
Certifications	All models: IEC/UL/EN 61010-1, IEC/UL/EN 61010-2-020, IEC/UL/EN 61326-1, FCC part 15 Additional certification for refrigerated models: IEC/UL/EN 61010-2-011 Additional certifications for IVD-MD models: IEC/UL/EN 61010-2-101, IEC/UL/EN 61326-2-6			
Standards/directives	ISO 14971, ISO 13485, ISO 9001 Additional directives for IVD-MD models: FDA listed, Device Class 1, EU IVDR class A			
Ordering information	S2T		S2TR	
	IVD	General use only	IVD	General use only
230 V	75001040*	75001041	75001045*	75001046
120 V	75001040*	N/A	75001044*	N/A

*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details.

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The intended use of the products mentioned in this brochure varies. Please refer to the product label.

It is the customer's responsibility to ensure that the performance of the product is suitable for customers' specific uses or applications.

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