ThermoFisher SCIENTIFIC



Centrifugation

M Series Centrifuges

Fast acceleration. Precision performance. Confidence in every spin.

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thermo scientific

M Series Centrifuges

Fast acceleration and exceptional precision

Designed to support the pace and precision of modern laboratories, the Thermo Scientific™ M Series Centrifuges help deliver powerful performance in a compact footprint. These centrifuges fit easily into your workflow, while standing out for their reliability, safety, and ease of use.

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

Choose from seven optional rotors to find an ideal fit for your application, with two speed options and a choice of ventilated or refrigerated models. Intuitive controls, easy-to-read displays, and fast one-click centrifuge lid closure simplify daily operation, while rapid acceleration and deceleration help ensure efficient performance.

Lightweight engineered polymer rotors deliver outstanding corrosion resistance, complemented by ergonomic one-click rotor opening and closing. Transparent rotor design enhances safety, supported by certified Thermo Scientific™ ClickSeal™ biocontainment lids, and a dual-row rotor eliminates the need for adapters altogether.



Intuitive user interface

Wide range of rotors for application flexibility

GreenCool Technology (refrigerated models)

Reduced spin times (up to 20% faster for high-end research applications)

Rapid acceleration and deceleration (up to 21,100 x g in ~12 seconds)

Thermo Scientific™ ClickSeal™ Biocontainment Lids

IVD or general use centrifuge model

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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.

M Series Centrifuges with GreenCool technology help deliver powerful performance combined with more sustainable innovation. Featuring a next-generation natural refrigerant (R600a) 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 - 15% lower energy consumption**. In the United States, we offer a **recycling program**. 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***

Extended life



Less hazardous | **More energy efficient** | **Extended life**

* Due to natural refrigerant (R600a)
**Energy use measured for a 1-hour run at maximum spin speed and compared to previous model. Previous model: Sorvall Legend Micro 21R
*** Zero waste defined as less than 10% of non-hazardous waste sent to landfill, incineration or waste-to-energy

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Safe, powerful, versatile, easy-to-use

The Thermo Scientific™ M17 Series microcentrifuges are excellent for routine laboratory work, while the Thermo Scientific™ M21 Series microcentrifuges are an ideal choice for high-end research applications, reducing spin times by up to 20%.

Perform both complex and simple protocols:

- The standard rotor runs 24 tubes in a single row with equalized g-forces for reproducibility, from 1.5 to 2.0 mL tubes to mini-preps and spin columns
- Eliminate the need for adapters with the dual row rotor, which holds 18 tubes of both 1.5/2.0 mL and 0.5 mL in the same run
- Increase your micro-volume capacity with the 10 x 5 mL rotor with ClickSeal biocontainment lid, separating samples at g-force up to 20,326 x g
- Wide variety of rotors support 0.5 mL microtubes, 0.2 mL PCR tubes and hematocrit capillary tubes

Save time with fast sample processing:

- Lightweight rotors are designed to provide acceleration up to 21,100 xg in 12 seconds
- Refrigerated versions offer cooling from room temperature to set temperature in just 4.5 minutes
- Fast one-click centrifuge lid closure

An ideal choice for everyday laboratory use:

- High performance engineered polymer rotors are designed for outstanding chemical resistance to minimize corrosion from aggressive reagents
- ClickSeal™ biocontainment lids reduce sample retrieval time with convenient one-click opening compared to screw-on lids
- Transparent PPSU rotor lids enable viewing for added safety and convenience
- Conforms to the latest clinical and safety standards, including In Vitro Diagnostic Regulation (EU) 2017/746

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24 × 1.5/2.0 mL rotor in a refrigerated instrument.
At the start of the test, both the rotor and the centrifuge chamber were at room temperature (RT). The PreTemp (pre-cooling) function was activated.
The time required to cool the centrifuge chamber from RT to 4 °C was 4.5 minutes.

Thermo Scientific microcentrifuge rotors and accessories

	Description	Rotor capacity	Max tube dimensions	Max speed (rpm)	Max RCF (xg)	Cat. No.
	**24 x 1.5/2.0 mL rotor with ClickSeal biocontainment lid**[1] Standard rotor with exceptional versatility – 24 tubes per run from basic microtube processing to mini-preps and spin columns and additional flexibility with available adapters.	24 x 1.5/2.0	11 x 50	14,800	21,100	75003424
	0.5/0.6 mL microliter tube adapters, pack of 24	24 x 0.5/0.6	7 x 32	14,800	21,100	76003252
	0.25/0.4 mL microliter tube adapters, pack of 24	24 x 0.25/0.4	6 x 24	14,800	21,100	76003251
	0.2 mL PCR tube adapters, pack of 24	24 x 0.2	6 x 24	14,800	21,100	76003250
	**Dual Row 18 x 2.0/0.5mL rotor with screw-on lid** Accommodate two different size tubes in one rotor without using adapters.	18 x 2.0/18 x 0.5	11 x 50	14,800	20,800	75003418
	**36 x 0.5 mL rotor with screw-on lid** Increase throughput for smaller microtubes.	36 x 0.5	7 x 32	14,800	19,300	75003436
	**10 x 5 mL rotor** Increase your nucleic acid sample separation.	10 x 5	17 x 62	14,800	20,326	75003465
	**PCR 8 x 8 rotor with screw-on lid** Centrifuge up to 8 PCR strips at one time.	64 x 0.2	6 x 24	14,800	17,100	75003489
	**PCR 4 x 8 rotor with ClickSeal biocontainment lid**[1] Process up to 4 PCR strips with certified1 sample protection.	32 x 0.2	6 x 24	14,800	16,200	75003440
	**Hematocrit rotor** Achieve fast capillary separations	24 Capillaries		14,800	16,800	75003473
	Capillaries, pack of 100 (included with hematocrit rotor #75003473)	24 Capillaries				76000923

Replacement Lids	Cat. No.
ClickSeal biocontainment lid*	75003410
Replacement O-ring set for ClickSeal lid – 75003410	75003405
Screw-on lid	75003406

*Used with rotors 75003424, 75003440 and 75003465

[1]Biocontainment certification by Public Health England, Porton Down, UK.

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Models

Designed for reliable performance





Specifications	M17 Series	M21 Series
Max RCF	17,000 xg	21,100 xg
Max Speed	13,300 rpm	14,800 rpm
Max Noise Level	**MT 17:** <54db(A)(Rotor 24x2ml; 13300 RPM) **MTR 17:** <48db(A)(Rotor 24x2ml; 13300 RPM)	**MT 21:** <56db(A)(Rotor 24x2ml; 14800 RPM) **MTR 21:** <56db(A)(Rotor 24x2ml; 14800 RPM)
Weight	**MT 17/MT 21:** 120V/230V 11 kg; **100V:** 12kg **MTR 17/MTR 21:** 120V 24 kg; 230V 24kg/25kg **100V**: 25kg	
Acceleration/Deceleration Rates	11/12 seconds (ventilated); 10/12 seconds (refrigerated)	
Time Set Range	1 min - 99 min; 1 min increments + HOLD mode	
Temperature Range[4]	Set from -9 °C to +40 °C per 1 °C increment	
Certifications	CSA certified, CE marked, IVD compliant, Certified biocontainment[1]	
Technical Standards	IEC 61010-1, IEC 61010-2, IEC 61010-020	
Dimensions (H X W x D)		
MT 17 and MT 21	225 x 243 x 352 mm (8.86 x 9.56 x 13.8 in)	
MTR 17 and MTR 21	330 x 290 x 440 mm (12.9 x 11.4 x 17.3 in)	

[1]Biocontainment certification by Public Health England, Porton Down, UK. [4]M17 series centrifuges only.

Ordering information	MT 17		MT 21		MTR 17		MTR 21	
	IVD-MD	General Use Only	IVD-MD	General Use Only	IVD-MD	General Use Only	IVD-MD	General Use Only
120 V, 50/60 Hz	75002576	N/A	75002579	N/A	75002588	N/A	75002591	N/A
230 V, 50/60 Hz	75002577	75002571	75002580	75002574	75002589	75002583	75002592	75002586
100 V, 50/60 Hz	N/A	N/A	75002581	75002575	N/A	N/A	75002593	75002587
230 V, 60 Hz for USA only	N/A	N/A	N/A	N/A	75002597	N/A	75002599	N/A

All part numbers include a 24 x 1.5/2 mL rotor

Application Package	Voltage	Accessories included	IVD-MD or General use	Cat. Nol
Everylab Centrifuge Package **MT 21**	120V	incl. 24 x 1.5/2 mL rotor,Thermo Scientific™ Finnpipette™ F2 GLP Kit 2: • Single-channel 0.2-2 µL, 2-20 µL, 20-200 µL and 100-1,000 µL pipettes • Flex tips: 10 micro: 1 x 96; 200: 2 x 96; 1000: 1 x 96 • F-stand • Reagent reservoir demo pack and • 1.5 Snap Cap Low Retention microcentrifuge tubes, full case (5,000 tubes)	General use	75002532
Everylab Centrifuge Package **MTR 21**	120 V	incl. 24 x 1.5/2 mL rotor,Thermo Scientific™ Finnpipette™ F2 GLP Kit 2: • Single-channel 0.2-2 µL, 2-20 µL, 20-200 µL and 100-1,000 µL pipettes • Flex tips: 10 micro: 1 x 96; 200: 2 x 96; 1000: 1 x 96 • F-stand • Reagent reservoir demo pack and • 1.5 Snap Cap Low Retention microcentrifuge tubes, full case (5,000 tubes)	General use	75002533
MT 17	230 V, 50/60 Hz	includes hematocrit rotor	IVD	75002578
MT 17	120 V, 50/60 Hz	includes hematocrit rotor	IVD	75002598
MT 21	120 V, 50/60 Hz	includes 24 x 1.5/2.0 mL rotor and 18x2 0/0.5 mL rotor	IVD	75002584
MTR 21	230 V, 50/60 Hz	includes 24 x 1.5/2.0 mL rotor and 18x2 0/0.5 mL rotor	General use	75002596
MTR 21	120 V, 50/60 Hz	includes 24 x 1.5/2.0 mL rotor and 18x2 0/0.5 mL rotor	IVD	75002590
MTR 21	230 V, 50/60 Hz	includes 24 x 1 5/2.0 mL rotor and 18x2 0/0.5 mL rotor	IVD	75002594

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Support your micro-volume separation needs with a complete family of Thermo Scientific centrifuges



Thermo Scientific™ mySPIN™ mini centrifuge series

- Enjoy convenience at your personal workstation with our most compact centrifuges
- Designed for quick and pulse spins
- An ideal choice for PCR, microfilter cell separation, and HPLC protocols
- Spin 6 x 2 mL at 2,000 x g or 12 x 2 mL at up to 9,800 x g

Thermo Scientific™ M Series microcentrifuges

- Fast acceleration and deceleration, and outstanding corrosion resistance with lightweight engineered polymer rotors
- The refrigerated models feature Thermo Scientific™ GreenCool™ Technology, a natural refrigerant cooling system for enhanced sustainability
- Spin 24 x 2 mL at up to 21,100 x g

Thermo Scientific™ C Series small benchtop centrifuges

- Easily change rotors with innovative Thermo Scientific™ Auto-Lock™ rotor exchange
- The refrigerated models feature Thermo Scientific GreenCool Technology, a next-generation natural refrigerant cooling system for enhanced sustainability
- Choose from 13 optional rotors, including 30 x 2 mL fixed angle rotor and 4 x 145 mL swinging bucket rotor
- Spin 24 x 2 mL at up to 30,279 x g

Learn more at **thermofisher.com/centrifuges**

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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