

Centrifugation



Thermo Scientific C Series Centrifuges

Compact power for separation excellence

Thermo Scientific™ features

The Thermo Scientific™ C Series Centrifuges are designed for clinical and research applications, offering exceptional capacity in a compact design. The centrifuges are available as ventilated or refrigerated models.

The refrigerated models feature Thermo Scientific™ GreenCool™ Technology, a next-generation natural refrigerant cooling system for enhanced sustainability. These refrigerated centrifuges have a Global Warming Potential (GWP) of 3, do not contribute to ozone layer depletion, and comply with EU and US EPA F-gas regulations. Besides being less hazardous, the centrifuges use up to 15.7% less energy** compared to previous models. Additionally, they are manufactured in a certified zero-waste facility using 100% renewable electricity in Osterode am Harz, Germany. In the United States, we offer a recycling program that helps reduce the amount of waste sent to landfills.

These centrifuges combine a compact design with an intuitive interface, the flexibility to support numerous applications and enhanced sustainability.

Intuitive user interface



Wide range of rotors for application flexibility



GreenCool Technology (refrigerated models)



High capacity in a compact design



Thermo Scientific™ Auto-Lock™ Rotor Exchange



Thermo Scientific™ ClickSeal™ Biocontainment Lids



IVD models



Application packages available



GREEN COOL
TECHNOLOGY
& SUSTAINABILITY



GLOBAL WARMING POTENTIAL*

3

LOWER ENERGY CONSUMPTION UP TO**

15.7%

MADE IN A CERTIFIED ZERO-WASTE FACILITY***

END-OF-LIFE RECYCLING PROGRAM****

* Due to natural refrigerant (R290)

**Energy use measured for a 1-hour cycle (30 min run and 30 min lid closed) at 4,500 rpm with TX-150 rotor at 4°C and compared to previous model (230 V). Previous model: Thermo Scientific™ Sorvall™ ST8R Centrifuge (750 W). New model: Thermo Scientific C1TR Centrifuge (650 W)

*** 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



Thermo Scientific™ C1T, C1TR and C1FR Centrifuges

Specifications		C1T Centrifuge	C1TR Centrifuge	C1FR Centrifuge
Swinging 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)	
Speed/ RCF settings		Increments of 10 rpm/ 10 x g		
Control system		Microprocessor		
Drive system		Direct, brushless induction drive		
Acceleration/deceleration profiles		2/2 (standard and soft)		
Rotor locking system		Auto-Lock rotor exchange		
Imbalance detection system		Continuous vibration measurement, with rotor mass correction		
Programs		4 direct program buttons	3 direct program buttons, 96 additional programs accessible via folder	
Pulse (short) run		Yes		
Acceleration/deceleration rates		2/2 (standard and soft)		
Centrifuge chamber		Brushed stainless steel		
Timer range		10 second to 99h 59min, continuous, modus mm:ss in 10 s increments, modus hh:mm in 1 min increments		
Temperature range		n/a	-10°C to 40°C	
Pre-cooling function		n/a	Yes, with direct button	
Refrigeration system		n/a	GreenCool technology, CFC free	
Sound level ²		<60 dB (A) with a TX-150 rotor (at max. speed) <65,5 dB (A) with a MicroClick 24x2 rotor (at max. speed)	<47 dB(A) with TX-150 rotor (conical bucket) <46 dB(A) with MicroClick 24x2 rotor at top speed	<50 dB(A) with a TX-150 rotor (conical bucket) <48 dB(A) with a MicroClick 24x2 rotor at top speed
Other features		Certified ¹ ClickSeal biocontainment lids		
		Multilingual selection: English, Dutch, French, German, Italian, Russian and Spanish		
Max power consumption (230 V)		310 W	650 W	650 W
Dimensions	Height (lid open)	67 cm (26.4 in)	70 cm (27.5 in)	117-122 cm (46.1-48.0 in), adjustable
	Height (lid closed)	31 cm (12.2 in)	32 cm (12.6 in)	79-84 cm (30.7-32.7 in), adjustable
	Width	37 cm (14.6 in)	46 cm (18.1 in)	47 cm (18.3 in)
	Depth	48 cm (18.9 in)	67 cm (26.4 in)	52 cm (20.5 in)
Weight		35 kg (77 lb)	120 V/ 220-230 V: 72.2 kg (159.2 lbs) 100 V: 77.2 kg (170.2 lbs)	120 V/ 220-230 V: 88.2 kg (194.4 lbs) 100 V: 91.4 kg (201.5 lbs)
Standards & certifications	Standards	IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1		
	Certifications	CSA certified, CE marked, IVD compliant, Certified biocontainment ¹		
Ordering information		C1T Centrifuge	C1TR Centrifuge	C1FR Centrifuge
		IVD-MD	IVD-MD	IVD-MD
120 V, 50/60 Hz		75008004	75009102	75009120
230 V, 60 Hz for USA only			75009123	

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

² Noise level measured with TX-150 rotor at 4,500 rpm/3,260 x g and with MicroClick 24 rotor at 17,850 rpm, 30,279 x g
The Project was defined for JQC, Regulation 862.2050 – Clinical Centrifuges