



Cell and gene therapy

General Purpose Pro Centrifuges CTS Series

Powerful at every turn

For cell and gene therapy research and manufacturing

Thermo Scientific™ General Purpose Pro Centrifuges Cell Therapy Systems (CTS™) Series consist of equipment, documentation, and certifications, as well as compliance services that support your Good Manufacturing Practice (GMP) needs.

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



Product



Documentation package



Compliance services



General Purpose Pro Centrifuges

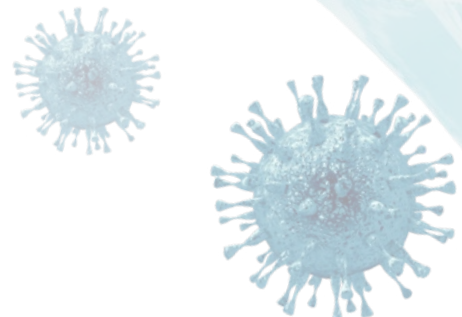
Optimal spin performance

Thermo Scientific General Purpose Pro Centrifuges are designed to meet the needs of today's rapid-fire discoveries, with updates to help you get your research done more quickly, consistently, and with powerful reliability.

Built on the foundation of quality and dependability that you expect from Thermo Scientific products, General Purpose Pro Centrifuges have features that can take your work to the next level.

Refrigerated 4 L (4 x 1,000 mL) floor and bench models provide:

- Intuitive touchscreen interface enables easy access and programming
- Thermo Scientific™ Auto-Lock™ Rotor Exchange helps save time for faster results
- TX-1000 swinging bucket rotor provides an unprecedented 4 L capacity (in a 3 L footprint) with the ability to hold up to 40 x 50 mL conical tubes, 96 x 15 mL conical tubes, or 4 x 500 mL conical bottles in one run
- Scheduling features and preventative maintenance queues help reduce downtime to avoid delay of cell processing, to lower the impact on cell viability
- Floor model option is ideal for space-challenged laboratories and is supplied with locking casters as standard to be easily moved for cleaning or relocation
- Thermo Scientific™ ClickSeal™ Biocontainment Lids help prevent contamination
- Compatible with common cGMP and cleanroom disinfecting procedures such as STERIS™ VHP dry heat sterilization
- Front USB port for easier plug in and data transfer in non-altered (PDF) format
- Current with all necessary regulatory certifications



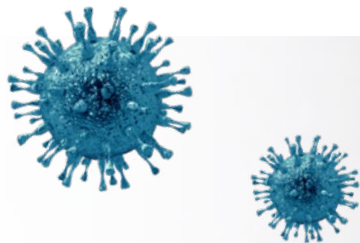


Product documentation package

Certifications and protocols to help with validation

Binder element	Description
Product support documents	
Design qualification (technical data sheet, drawings) ¹	Basic spec descriptions of the product and may include some summary drawings
Recommended customer maintenance schedule	Vendor-supplied customer-based maintenance and schedule
Regulatory and compliance certifications	
Declaration of conformity with EU laws (CE)	CE certificate proof
CSA certificate	CSA certificate proof
Certificate of environmental status	Regulatory certificates for various sustainability items
Quality Management System (QMS) certificate	Factory/site-based quality system description
Traceability/ validation documents	
Certificate of conformance	Production certificate
FAT report ¹	End-of-line test summary with checklist of performance
Key material of construction specifications	Technical specifications
Steris VHP compatibility certificate	Test certificate for vaporized hydrogen peroxide cleaning
Particle emission certificate	Test certificate defining particle emissions of product
Porton Down certificate	Test certificate for centrifuge rotor biocontainment

1) These are serialized documents.





Compliance services¹

On-site qualification

Unity™ Lab Services, as part of Thermo Fisher Scientific, offers on-site qualification services that help ensure your laboratory equipment meets global standards and mitigates the risk of regulatory non-compliance. Our full-range compliance portfolio provides improved productivity, single-vendor convenience, a no-charge requalification guarantee,² and comprehensive documentation reports that give you peace of mind by supporting your quality management system, traceability, and audit readiness. Our standardized field qualifications for centrifuges include IQ and OQ services. Semi-customized protocols are available. Contact your local sales or service team for services in your location.

Selecting the right compliance services solution is a significant part of your quality system. Our factory-trained, highly skilled field service engineers will support your project from the time of order until regulatory sign-off to help you pass qualifications the first time. Our one-and-done best practices ultimately help you reduce costs and maintain operational uptime.



Qualification services

Installation qualification (IQ)³

- Component verification
- Assembly verification
- Installation verification
- Site verification

Operational qualification (OQ)

System configuration

- Set points
- Alarms and safety

System functionality

- All functional attributes

Reference measurements for up to 3 rotors

- Temperature
- Speed
- Time

Cycle testing services⁴

	Description
Cycle testing	A point-in-time test exercise of predefined duration that surpasses singular verification and routine speed, time, and temperature monitoring activities for helping to ensure that the equipment is performing in accordance with the intended use of the system.

1. Compliance services are only available in select locations including the United States, Germany, France, the United Kingdom, Ireland, Spain, Portugal, Italy, Austria, Switzerland, Norway, Sweden, Denmark, Belgium and the Netherlands. For more information, contact your local sales or service representative.
2. Our no-charge requalification guarantee for laboratory equipment applies only to equipment under a qualifying Unity Lab Services equipment service plan or warranty and includes requalification on covered corrective maintenance repair at no additional charge. Terms and conditions apply.
3. Installation of equipment is not included within our IQ services. Additional fees apply for inside delivery shipping method or for full installation and setup of equipment.
4. Key test offerings may vary by region.

Order details

Product and documentation package

Factory acceptance compliance packages includes centrifuge, TX-1000 rotor (PN75003017), buckets (PN 75003001), biocontainment certified lids (PN 75007309), 50 ml conical adapters (PN 75003674), 15 ml conical adapters (PN 75007306) and 500 ml bottle adapters (PN 75007302), Factory Acceptance Certification Package

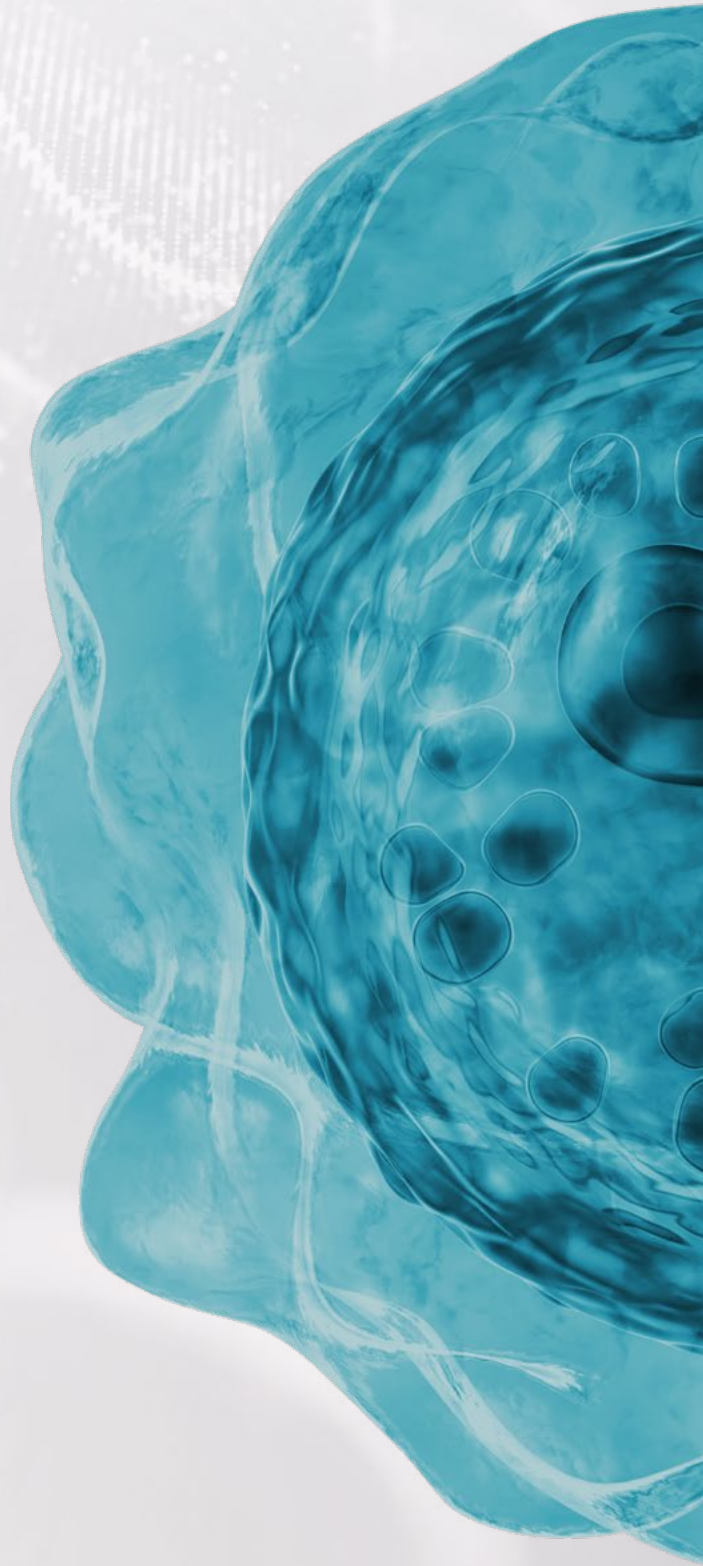
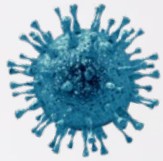
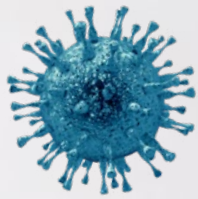
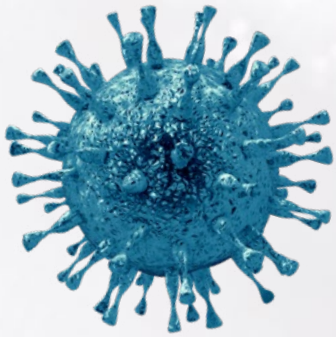
Product description	Voltage and frequency	Cat. No.
Benchtop models		
Thermo Scientific Sorvall X4R Pro Cell Therapy Package CTS Series, Factory Acceptance Test Documentation	220-240 V, 50/60 Hz	75009018
	220 V, 60 Hz	75009019
	120 V	75009020
	100 V	75009021
Thermo Scientific Multifuge X4R Pro Cell Therapy Package CTS Series, Factory Acceptance Test Documentation	220-240 V, 50/60 Hz	75009022
Floor standing models		
Thermo Scientific Sorvall X4F R Pro Cell Therapy Package CTS Series, Factory Acceptance Test Documentation	220-240 V, 50/60 Hz	75009050
	220 V, 60 Hz	75009051
	120 V	75009052
	100 V	75009053
Thermo Scientific Multifuge X4F R Pro Cell Therapy Package CTS Series, Factory Acceptance Test Documentation	220-240 V, 50/60 Hz	75009054

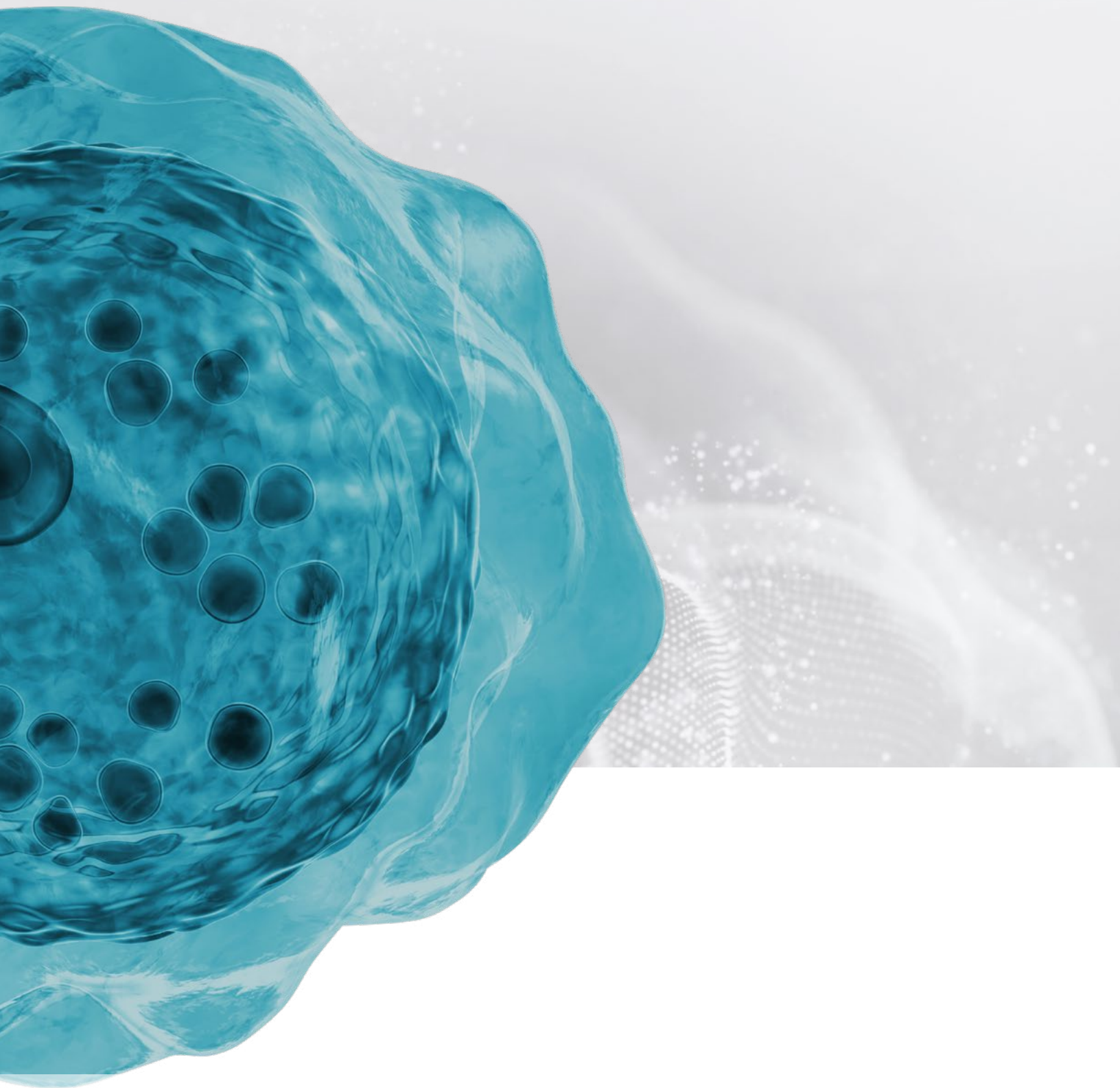
Compliance services*

Qualification service	Cat. No.
On-site IQ/OQ service	IOQPCKE89003492
On-site IQ/OQ + cycle test	IOPQPCKE89003492

* See page 5 for details and availability.







Learn more at thermofisher.com/ctscentrifuges

thermo scientific