



Cold storage

TSX™ Series ULT freezers

Our most advanced platform

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Authorised Distributor



...řešení pro vaši laboratoř

TRIGON PLUS s.r.o.

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Obchodní a servisní partner předních výrobců laboratorních zařízení

Zastoupení pro Českou a Slovenskou republiku

Akreditovaná kalibrační a zkušební laboratoř

thermo scientific

Advancing science starts with protecting it

TSX Series ULT freezers: built to perform, designed to protect

When it comes to ultra-low temperature (ULT) storage, protecting your samples is what matters most. At Thermo Fisher Scientific, we understand that each vial represents years of research, and that's why we've reimagined what ULT storage can be.

The TSX™ Series ULT platform—our most advanced to date—has evolved since its 2015 launch to set an exceptional standard in performance, reliability, and sustainability. Powered by innovative V-drive technology and backed by over 80 years of cold storage expertise, TSX ULT

freezers offer industry-leading performance and protection with reduced environmental impact while helping enhance lab efficiency.

Choose the Thermo Scientific™ TSX™ Universal Series ULT freezers for maximum performance and feature depth, or the Thermo Scientific™ TSX™ Core Series ULT freezers for essential functionality built on the same trusted foundation. Either way, you're investing in a platform designed to safeguard your science and support your lab's growth.

Engineered for reliability

- Built to the highest standards in ISO 13485:2016 facilities
- Tested for 10,000+ hours to ensure long-term durability
- Quality-checked with rigorous end-of-line testing
- Shipped with full factory documentation and calibration certification*
- Backed by leading warranty for peace of mind



Industry-leading warranty

Built to perform, designed to protect

- Powered by V-drive technology for consistent temperature and adaptive cooling
- Recovers temperature quickly to protect sample integrity
- Maintains uniformity within $\pm 4^{\circ}\text{C}$ throughout the cabinet
- Enables fast re-entry with active pressure relief



Leads the industry in total performance

Greener by design™

- Marked with the Thermo Fisher green leaf symbol for meeting sustainability criteria
- Manufactured at our zero-waste Asheville, NC facility powered by 100% renewable energy
- ENERGY STAR® certified and ACT™ label verified***



Uses only 0.27 kWh/day
— an annual operation cost of \$357**

[Learn more >](#)

Optimized for lab efficiency

- Offers universal voltage, multiple size options, and quiet operation
- Features airtight seals and adjustable racks for efficient storage
- Helps minimize frost with 7-point gasket and perimeter heater
- Includes LN2, CO2, and probe ports for easy integration



Universal voltage (100–230V, 50/60Hz)

*Shipped documents include: Certificate of conformance, CE declaration of conformance (non-medical models only), certification of calibration, QC test log sheets, and QC temperature graphs.

Specific to TSX60086 capacity skus. Based on \$0.1260 current commercial energy cost from EPA. *ACT labels available for TSX Universal ULT freezers; TSX Core ULT freezer labels are in progress.

Choose the right fit: TSX Universal vs. TSX Core ULT freezers



Experience the future of cold

Our most advanced and sustainable ULT freezer—designed for labs that demand the highest level of performance, reliability, and innovation. Built with our universal V-drive cooling technology, it leads the market in total performance. With enhanced features and industry-leading warranty, the Universal Series is the ultimate solution for protecting what matters most—your samples.



Designed for everyday use

Built on the same trusted platform as the Universal Series, the TSX Core delivers reliable performance and essential features for day-to-day lab use. It's a cost-effective solution that supports workflow efficiency—making it a dependable choice for labs that need trusted performance and consistent functionality in a streamlined design.

Category	Feature	TSX Universal Series	TSX Core Series
User Interface & accessibility	Screen size	7-inch capacitive touch screen display	5.6-inch capacitive touch button display
	Access warranty & manuals	Yes	No, available online
	Multi-lingual support	Yes	No
	USB location	Built into UI	Positioned above UI
	Additional options	Lightbar, HID card access	None
	Charts available	Yes	No
Logging & monitoring	Customizable snoozing	Yes (warnings)	No (snooze compatible)
	Event & temperature logs (on-screen)	Yes	No
	Customizable & downloadable logs	Yes	No (standard export templates up to 180 days)
Access & profiles	User profiles & access levels	Yes	No (secure access pin enabled)
	Access modes	2	1
Performance & control	Setpoint range	-80°C to -40°C	-80°C to -50°C
	Re-entry time	32 seconds	45 seconds
	Data time range	4 years	2 years
Health & diagnostics	Unit health status	Detailed health status	Heart icon for health status
Connectivity & power	Accessory power	5V and PoE	No
	Remote outputs	RS485, 4-20 mA Output, Remote Alarm Dry Contacts	RS485, 4-20 mA Output, Remote Alarm Dry Contacts
Compliance & certification	Certifications / verifications	ENERGY STAR [†] , ACT label [†] , Cleanroom ISO 5.5, cULus (UL 61010), CE*, ISO 13485	ENERGY STAR, cULus (UL 61010), CE, ISO 13485
Warranty & support	Warranty coverage	12-year compressor parts, 5-year parts and labor**	7-year compressor parts, 5-year parts and labor**
Medical use	Medical device availability	Yes (Class II) and general laboratory use	No

*CE available on non-medical models only. **Restrictions and exclusions apply. Parts and labor available in North America only. Warranty is void if the unit is not maintained as set forth in the operation manual.

† Information not applicable to TSX Universal ULT freezers with "-ULTS" in the part number.



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Learn more at thermofisher.com/ult

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