thermo scientific

Thermo Scientific™ TSX Series Ultra-Low Freezers

Now available in four sizes

Designed to meet the highest protection and sustainability standards for ultra-low storage

- Four capacities: 400, 500, 600 and 700 2-inch (5cm) box
- Re-designed, user interface with capacitive touch screen

 Best peak variation of energy-efficient ultra-low freezers: less than 5°C
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 Fastest door opening recovery on the market: 17 minutes
- Best overall temperature uniformity: < 5.2°C with door openings. < 4.0°C with no door openings
- Nong warm-up time from -80°C to -50°C at 5.05 hours
- Low energy usage: less than 8 kWh/day depending on size
 - 5 year standard warranty: plus 7 additional years on V-drive compressors* "Restrictions and exclusions apply. Warranty is void if the unit is not maintained as set forth in the operation and socioe monusis.

Designed to keep samples safe • Low peak variation protects samples

- throughout the entire freezer cabinet
- V-Drive technology with adaptive control is designed to detect high and low usage patterns, adjust compressor speeds, and reduce energy without compromising protection
- Records temperature and events for the lifetime of the freezer

Designed to limit environmental impact and protect your budget • Reduce energy usage up to 70%

- by replacing an older ultra-low freezer with a new TSX*
- Uses less than 8 kWh/day, depending on size
 - Produces less environmental heat
 - emissions and lowers HVAC costs Natural refrigerants compliant with EU
- F-Gas regulation: R170 and R290
 Environmentally-friendly, water-blown
 - foam insulation

Manufactured in an award-winning,^a zero-waste to landfill facility

All data based on internal data unless otherwise noted. Data on file.

To Typical freezer data based on internal rooting with thezer selpoint at -80°C and ambient temperature at 20°C. Performance data veries access these rates and electrical specifications.



User-friendly design

- All new freezer and user
- interface design

 Available in four sizes
- Quiet enough to reside directly in the laboratory. At just 45.5 dBA, the sound is comparable to
- a home refrigerator
 Advanced security features



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User friendly touch-screen interface and cabinet

- NEW: Easy-to-use set-up wizard, event log, temperature mappin and data downloads
- NEW! Capacitive touch even when using latex gloves
- Eliminate the need for a separate chart recorder with datalogging and temperature mapping features, all exportable via a built-in USB port
- Advanced security features: alarm settings, password-protected controller, padipok-compatible doors and optional access card entry
- DeviceLink™ monitors system status with 24-7 alarm, temperature, and system health notification capability via InstrumentConnect™ mobile and web platforms*
- notification capability via InstrumentConnect "mobile and web platform
- Ergonomic design: comfortable door handle, eye-level touch-screen and shelf-level placement that doesn't require floor-level loading of racks
- Four capacities (400, 500, 600 and 700 2-inch/5cm box) to accommodat a variety of storage needs and lab footpath specifications

"DeviceLink." W.-F. technology not available in all regions. Applicable Networks include: W-PV2-PSK, WBY-PSK, WBY-W-YV2-EAR-PEAR, WPX-EAR-PEAR.

Specifications & Ordering Information

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Thermo Scientific TSX Series Upright Freezers (-50°C to -86°C)											
Model Number	Capacity			Amos / Breaker	Max. Shelf	Interior Dimensions	Exterior Dimensions	Shipping			
	liters	5cm (2*) cryobox	Electrical	(Plug)	Weight kg	H x W x D cm	H x W* x D cm	Weight kg			
T8X40088V	549	400	230V / 50Hz	4.0/10 (European)	76	130.1 × 58.8 × 71.9	198.1 x 71.9 x 95.5	290			
TSX40086D	510	400	208-230V / 60Hz	4.0/10 (NEMA 6-15)				290			
T\$X50088V	682	500	230V / 50Hz	5,2/10 (European)	93	130.1 × 73.0 × 71.9	198-1 × 86-4 × 95-5**	316			
T\$X50086D	002		208-230V / 60Hz	5-1/10 (NEMA 6-15)				316			
TSX90086V	816	600	230V / 50Hz	4,0/10 (European)	111	130-1 × 87-3 × 71-9	198.1 × 100.6 × 95.5**	347			
T\$X50086D			208-230V / 80Hz	4,0/10 (NEMA 8-15)				347			
TSX70098V	949		230V / 50Hz	6,1/10 (European)				394			
TSYZODBED	949	700	208-2007 / 80H+	5.8/10 (NEMA 6-15)	129	130.1 x 101.6 x 71.9	198.1 x 114.8 x 96.5"	204			

Allowance for handle and hinge, add 10,7 cm to cabinet width

Model Number	Energy Consumption (kW-hr/day)* Standard Mode	Peak Variation from -80°C setpoint (°C)**	Door Opening Recovery (minutes)	Warm Up Time (-80°C to -50°C) (minutes)***	Noise Level (dBA)
TSX40096	7.9	+6.07+1.1	17	267	47.5
TSX50086	8-3	+6.77+920	27	281	4910
TSX60086	8.7	+6.97+1.8	24	303	45.5
TSX70086	9.5	+7.87+2.2	28	289	48.0

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