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Umsatzsteuer-  
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## Thermo Scientific TSX Series Ultra Low Temperature Refrigerators 230 V, 50 Hz 400 2-inch Boxes 37.6 x 28.3 x 78 inches (95.5 x 71.9 x 198.1 cm) Each

**€19,284.00**  
**plus VAT &**  
**Shipping**

### Product Images



## Description

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### TSX Series Ultra Low Temperature Freezers

Thermo Scientific™ TSX Series ultrafreezers are ENERGY STAR® certified and meet the highest standards for reliability, sustainability and temperature management. At the heart of the TSX Series is the V-Drive, which adapts to usage patterns, significantly reducing energy and HVAC costs without compromising performance. All TSX Series freezers are manufactured in a zero-waste facility using natural refrigerants and water-driven foam insulation that comply with the U.S. EPA's Significant New Alternatives Policy (SNAP), the EU's Fluorinated Greenhouse Gas Regulation and other sustainability standards.

### Performance characteristics:

- No matter where samples are stored in the freezer, with a peak deviation of less than 5 °C, your samples will be protected and safe anywhere in the cabinet. \*
- Long warm-up time from -50 to -80 °C: 5.05 hours\*
- So quiet that it can be placed directly in the lab rather than in the hallway. At just 45.5 dBA, the TSX Series' noise level is comparable to that of a standard household refrigerator\*
- The V-Drive adaptive control is designed to detect events such as the opening of a door and subsequently increase compressor output. During quieter periods of use, the compressor runs at a lower capacity, saving energy without sacrificing refrigeration protection

### Remote monitoring:

Thermo Scientific™ DeviceLink™ is integrated with your ultra-low temperature instrument, providing real-time monitoring of system status and sample temperature.

- View important instrument data and notifications through your apps and web applications.
- Access data anytime, anywhere – data and alarms from monitored lab instruments are securely stored in the cloud and sent to the user via email and cell phone notifications.
- InstrumentConnect™ provides streamlined, dashboard-style reporting, reducing the time spent interpreting data
- Unlike traditional connectivity methods, DeviceLink™ is based on a client-cloud architecture that requires minimal IT support.
- No sensor installation required – a single connection can be used to read various device data directly from factory-installed sensors.
- Applicable networks: WPA2-PSK, WPA-PSK, WEP, WPA2-EAP-PEAP, WPA-EAP-PEAP.

### User-friendly:

- Redesigned touchscreen user interface with easy operation: setup wizard, event log, temperature mapping and data downloads via built-in USB interface.
- No need for a separate data recorder thanks to the touchscreen's data logging and temperature mapping features and data export via the built-in USB port.
- Ergonomic design with convenient door handle, eye-level touchscreen, and shelf positioning that does not require racks to be loaded on the floor.
- Available in four sizes (400, 500, 600 and 700 2-inch boxes) to meet varying storage capacity and floor space requirements.
- Compatible with most rack systems, including a full range of Thermo Scientific™ racks for boxes and microplates, as well as Thermo Scientific™ Matrix™ and Nunc CryoBank™ tubes.
- Security features include alarm settings, padlockable doors and, optionally, key card access.

### Sustainability:

- TSX ultra-low temperature freezers are ENERGY STAR® certified, offering significantly higher energy savings and lower operating costs.
- Using natural refrigerants and water-driven foam insulation, the TSX Series complies with the U.S. EPA's Significant New Alternatives Policy (SNAP), the EU's Fluorinated Greenhouse Gas Regulation and other sustainability standards.
- Manufactured in a manufacturing facility that has won awards for landfill waste prevention, among other achievements.
- Lower HVAC costs due to less heat dissipation into the environment.

\* Typical unit data based on internal measurements at a temperature set point of -80 °C and an ambient temperature of 20 °C. Performance data will vary depending on freezer size and electrical specifications.

Description:	TSX series ultra-low temperature freezers, 400 box capacity, 230V, 50Hz
Temperature range:	-50 to -86 °C
Certification/Compliance:	CE, ENERGY STAR
Capacity:	549 l
Vial capacity:	40.000 x 2.0 ml
Electrical requirements:	230 V / 50 Hz
Dimensions (D x W x H) inside:	71.9 x 58.8 x 130.1 cm
Weight:	260 kg
Shipping weight:	290 kg
Display:	Touchscreen LCD
Refrigerant:	R290 (1st stage), R170 + R290 Mix (2nd stage)
Capacity per rack:	75 kg
Defrosting:	Manual
SmartView compatibility:	Yes
Dimensions (D x W x H) outside:	95.5 x 71.9 x 198.1 cm
Connectivity:	Thermo Scientific™ DeviceLink™ (Networks: WPA2-PSK, WPA-PSK, WEP, WPA2-EAP-PEAP, WPA-EAP-PEAP)
Holding capacity:	2-inch boxes (400)
Compressor:	Variable drive compressor (V-Drive)
Insulation:	Vacuum insulation panels (VIP) + water-blown polyurethane foam (SNAP compliant)
Material:	Polyurethane foam (insulation), stainless steel (interior)
Monitoring options:	Alarm, data recorder

## Additional Information

No.	LD-5328
Manufacturer (Brand)	Thermo Scientific
EAN	4066292045477
Color	gray
Temp MAX	-50 °C
Temp MIN	-86 °C
Operation via	Touchscreen
Interior	Compartments with door
Capacity for 50 boxes	400
Refrigerant medium	Refrigerant (closed system)
Refrigerant closed system	R 290 (propane)
Voltage	230 V
Positioning variants	single

