



North Sciences/Traceable® TSi Series Ultra-Low Temperature Freezers

Sample security, reliability and sustainability for
ultra-low temperature storage

- Cloud-based monitoring with TraceableLIVE®
- Variable-speed inverter drive technology
- Fast door-opening recovery time
- USB interface to download historical temperature data



North Sciences/Traceable® TSi Series

Ultra-Low Temperature Freezers

Designed for sustainability and performance for ultra-low storage

The TSi series ultra-low temperature freezers are designed to exceed all standards in reliability, sustainability and temperature management. The cooling capacity adapts to user patterns, substantially reducing energy and HVAC costs without compromising performance.

High-performance VIP thermal technology combined with double-injected foaming for both inner and outer doors improves the thermal insulation effect and energy savings.

Monitor everything from inside out, 24/7. The TSi series features an integrated Traceable® data logger plus a one-year Standard subscription plan to TraceableLIVE cloud-based control and monitoring service.

Overall Specifications

Uniformity	±5 °C
Recovery	–21 minutes
Pull-up time	from –80 °C to –50 °C, < 7.0 hours
Pull-down time	20 °C to –80 °C, < 3.0 hours
Port	heated pressure equalization
Material	interior and exterior: powder coated galvanized steel
Interface	USB interface
Refrigerants	R290, R170
Control functions and alarms	high/low temperature alarm, hot condenser, sensor error, power failure, low battery, high ambient temp, filter, and door ajar



Cooling capacity adapts to user patterns substantially reducing energy



Wi-Fi® enabled digital data logger



Continuous data transmission to the cloud-based interface

North Sciences/Traceable® TSi Series Ultra-Low Temperature Freezers



Ergonomy and Technology

Safe and secure accessibility with hyper insulated cabinet designed to reduce energy and secure samples protection.



Smart Interface

Large 10" touch screen with state-of-the-art user interface design, oriented for ultimate user experience.



Wireless Monitoring

Simplified cloud monitoring using TraceableLIVE® with alarms and notifications while maintaining regulatory compliance

TraceableLIVE® – Remote monitoring from the cloud

TraceableLIVE is a cloud-based, subscription software solution for connected data logging devices that sends alerts when an out-of-range condition, lost network connection, low battery charge, or device due for calibration is detected. Push notifications on screen via the TraceableLIVE app so you know what's happening in your fridge or freezer, even when you're at your desk.

- Notifications for peace of mind
- Simple setup
- Subscription plans to fit your needs
- Cloud-based, no software to install

Learn more at coleparmer.com/traceablelive

TraceableLIVE Subscription Plans

Free	Standard	Premium
<p>Try TraceableLIVE for free. Get Premium benefits for 30 days.</p> <ul style="list-style-type: none">• E-mail and push alarms• 1 user only• 1 month data storage• Up to 3 devices can be added to the account• Calibration due and other notifications	<p>Equip your team to protect your sensitive items and meet most national and local regulations.***</p> <p>\$8.99 / Month / Device \$100 / 1 Year / Device \$200 / 2 Years / Device</p> <ul style="list-style-type: none">• E-mail and push alarms• SMS text notifications*• Unlimited users and data storage• No limit to devices that can be added to account (each device must have subscription)• Calibration due and other notifications• Pre-loaded templates set up for monitoring Spex® chemical products	<p>“Future-proof” your vaccine and sample monitoring for ever-changing compliance requirements.</p> <p>\$14.99 / Month / Device \$165 / 1 Year / Device \$330 / 2 Years / Device</p> <ul style="list-style-type: none">• E-mail and push alarms• Apple Watch® compatibility• SMS text notifications included• Voice notification escalation• Ideal for high importance escalations• Unlimited users and data storage• No limit to devices that can be added to account (each device must have subscription)• Create your own monitoring and notification templates• Unlimited templates• Pre-loaded templates set up for monitoring Spex chemical products• 21 CFR Part 11 compliance**

*SMS Text notification is available on monthly credit card subscription add \$2+/month/device or comes included in Premium. | **Meets 21 CFR Part 11 North American Compliance and Annex 11 for Europe. | ***Check all national, local, and industry regulations.

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Ordering Information

Freezer capacity	Temperature range	No. of shelves	Capacity for 2-in boxes	Display	Internal Dimensions (W x H x D)	External Dimensions (W x D x H)	Power	Electrical	Item number
360 L (13 cu ft)	-86 to -40 °C (-123 to -40 °F)	3	240	Touchscreen	46 x 131 x 60 cm (18.1" x 51.6" x 23.6")	64 x 197 x 82 cm (25.2" x 77.5" x 32.3")	400 watts, 1.8 amps	120 VAC, 60 Hz	44261-69
								220 VAC, 50 Hz	44261-70
480 L (17 cu ft)	-86 to -40 °C (-123 to -40 °F)	3	320	Touchscreen	60 x 131 x 60 cm (23.6" x 51.6" x 23.6")	78 x 197 x 82 cm (30.7" x 77.5" x 32.3")	440 watts, 2.2 amps	120 VAC, 60 Hz	44261-71
								220 VAC, 50 Hz	44261-72
590 L (21 cu ft)	-86 to -40 °C (-123 to -40 °F)	3	400	Touchscreen	74 x 131 x 60 cm (29.1" x 51.6" x 23.6")	92 x 192 x 82 cm (36.2" x 75.5" x 32.3")	520 watts, 2.8 amps	120 VAC, 60 Hz	44261-73
								220 VAC, 50 Hz	44261-74
730 L (25 cu ft)	-86 to -40 °C (-123 to -40 °F)	3	500	Touchscreen	74 x 131 x 73 cm (29.1" x 51.6" x 28.7")	92 x 197 x 95 cm (36.2" x 77.5" x 37.4")	610 watts, 3 amps	120 VAC, 60 Hz	44261-75
								220 VAC, 50 Hz	44261-76
990 L (30 cu ft)	-86 to -40 °C (-123 to -40 °F)	3	720	Touchscreen	88 x 131 x 86 cm (34.6" x 51.6" x 33.9")	106 x 197 x 108 cm (41.7" x 77.5" x 42.5")	720 watts, 3.5 amps	120 VAC, 60 Hz	44261-77
								220 VAC, 50 Hz	44261-78

Units supplied with integrated Traceable® data logger and 1-year subscription to Standard TraceableLIVE® cloud-based control and monitoring service.

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