



North Sciences

TSi Traceable Series Ultra-Low Freezers

Cloud Monitoring with TraceableLIVE®



Samples security, reliability and sustainability for ultra-low storage

Variable Speed Inverter Drive Technology

The New TSi series ultra-low freezers 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.

Co-branded with Traceable® from Antylia, with its Wifi Enabled Digital Datalogger the TSi Series connects easily to wifi and provides continuous data transmission to the cloud-based interface and includes NIST-Traceable certificate from A2LA accredited (1750.01) calibration laboratory.





Ergonomy & Technology

Safe and Secure Accessibility with Hyper insulated cabinet designed to reduce energy and secure Samples protection.



Smart Interface

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



Wireless Monitoring

Connectivity - Simplified Cloud Monitoring using TraceableLIVE® with Alarms Notifications while maintaining regulatory compliance.

Designed for sustainability & performance for ultra-low storage

- Uniformity $\pm 5^{\circ}\text{C}$
- Fast door-opening recovery 21Min
- Pullup time from -80°C to -50°C <7.0H
- PullDown time from 20°C to -80°C <3.0H
- Low energy usage
- Heated Pressure Equalization Port
- Double injected foaming for both inner and outer doors combined with VIP thermal insulation technology
- USB Interface to download historical temperature data
- Alarm - high, low temperature, sensor error, power failure, high ambient, filter and door ajar

"Future-proof" your sample monitoring for ever-changing compliance requirements.

E-mail and push alarms - Apple Watch compatibility - SMS text notifications - Voice notification escalation - Unlimited users - Unlimited data storage - Create your own monitoring and notification templates - Unlimited templates

1 CFR Part 11 compliance

		TSi8617	TSi8621	TSi8625	TSi8635
Performances	Volume CuFt/Liters	17/485	21/599	25.7/729	35/991
	Refrigerant	R290, R170	R290, R170	R290, R170	R290, R170
	Temperature Range (°C)	-40 to -86	-40 to -86	-40 to -86	-40 to -86
	Daily Energy consumption (KW.H/cu.ft)	0.49	0.45	0.41	0.39
Construction	Exterior Material	Galvanized steel powder coating	Galvanized steel powder coating	Galvanized steel powder coating	Galvanized steel powder coating
	Interior Material	Galvanized steel powder coating	Galvanized steel powder coating	Galvanized steel powder coating	Galvanized steel powder coating
	Insulation Material	Cyclopentane+VIP	Cyclopentane+VIP	Cyclopentane+VIP	Cyclopentane+VIP
	Interior (W*D*H) Inches	23.6x23.6x51.6	29x23.6x51.6	29x28.75x51.6	34.6x33.85x51.6
	Exterior (W*D*H) Inches	30.7x32.3x77.5	36x32.4x77.5	36x37.5x77.5	41.75x42.6x77.5
	Package (W*D*H) Inches	36x36x80	41x36x80	41x41x80	47x47x80
	Capacity for 2 inch boxes	320	400	500	720
	Inner Door Number	2	2	2	2
	Technology	Variable Speed Inverter	Variable Speed Inverter	Variable Speed Inverter	Variable Speed Inverter
	Power Supply(V/Hz)	115V/60Hz	115V/60Hz	115V/60Hz	115V/60Hz
	Power (W)	470	550	650	740
	Rated Current (Amps)	4.2	5	5.8	6.6
Weight	Net Weight (Kg)	243.5	269	288	357
	Gross Weight (Kg)	274.5	308	323	455
Controller Functions	Display	Touch screen	Touch screen	Touch screen	Touch screen
	High/Low Temp Alarm	Yes	Yes	Yes	Yes
	Hot Condenser	Yes	Yes	Yes	Yes
	Power Failure	Yes	Yes	Yes	Yes
	Sensor Error	Yes	Yes	Yes	Yes
	Low Battery	Yes	Yes	Yes	Yes
	High Ambient Temp	Yes	Yes	Yes	Yes
Accessories	Alarm mode	Sound - light + Dry contact	Sound - light + Dry contact	Sound - light + Dry contact	Sound - light + Dry contact
	Caster	Yes	Yes	Yes	Yes
	Pass Thru Port	2	2	2	2
	Shelves (stainless steel)	3	3	3	3
	Door locking device	Yes	Yes	Yes	Yes
	Automatic Pressure Compensation	Yes	Yes	Yes	Yes
	UL approved for US - Y/N	Yes	Yes	Yes	Yes
	Plug Type	Nema 5-20P	Nema 5-20P	Nema 5-20P	Nema 5-20P



inTEST Thermal Solutions

an inTEST Company

inTEST Thermal Solutions (iTS) specializes in the design and manufacture of thermal test and process cooling systems. Our breadth of products and in-house engineering capabilities allow us to be a single-partner-solution for thermal test and process cooling needs.

We are recognized globally for our expertise in precise control of extreme thermal environments, from -185 to +500°C, with rapid transitions or long dwell times. The iTS family includes four product brands: Temptronic, Sigma Systems, Thermonics, and North Sciences. inTEST Thermal Solutions is a wholly owned subsidiary of inTEST Corp, Mount Laurel, New Jersey, USA.



Temptronic



Sigma Systems



Thermonics



North Sciences

ABOUT NORTH SCIENCES

Our North Sciences product line specifically offers ULT freezers, Lab Freezers, Medical Grade Refrigerators, and Biomedical Cold Storage solutions ranging from small and portable to powerful, large storage units. Our wide selection of -86°C, Ultra-Low-Temperature (ULT) freezers provide you with the most dependable performance and low maintenance while meeting a wide range of industry requirements.

With North Sciences, you're given the ultimate peace of mind with true sample security through our innovative technology capabilities and unique design. Stock is available and located in Boston, MA.



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