





# TSG Series auto-defrost freezers


  
Biologics


  
Diagnostic kits and reagents

  
Industrial testing

  
Molecular biology

  
Vaccines and pharma

  
Clinical samples

  
Connectivity

TSG Series auto-defrost freezers are built from the ground up to meet your cold storage needs, offering quiet operation, optimal performance, and sustainable design.

- Three convenient sizes ranging from 12 cu. ft. to 49 cu. ft.
- Quiet operation at less than 52 dB
- ENERGY STAR–certified freezers
- Auto-defrost functionality
- Insulated solid doors
- Four 2-inch casters; front casters are lockable
- Self-closing door with 90° stop
- Bright LED interior lighting
- Temperature, door ajar, and power failure alarms
- 12-hour controller battery backup
- Rear access port
- Keyed door locks, compatible with popular e-lock adapters
- Remote alarm contacts
- See pages 8–10 for accessories



Thermo Scientific™  
TSG2325FA Freezer

## TSG Series auto-defrost freezers

Temp. range (set point)	Capacity cu. ft. (liters)	Electrical plug	Doors	Shelves	Defrost	Certification	Interior dimensions D x W x H in.	Interior dimensions D x W x H cm	Exterior dimensions D x W x H in.	Exterior dimensions D x W x H cm	Shipping weight lb (kg)	Cat. No.
-15°C to -29°C (-25°C)	12 (326)	115V, 60Hz (NEMA 5-15)	1 solid	4	Automatic	UL, cUL	21.8 x 20.0 x 52.4	55.4 x 50.8 x 133.1	30.5 x 24.0 x 73.0	77.5 x 61.9 x 185.4	265 (120)	TSG1225FA
-15°C to -29°C (-25°C)	23 (650)	115V, 60Hz (NEMA 5-15)	1 solid	4	Automatic	UL, cUL	28.5 x 24.0 x 58.0	72.3 x 61.0 x 147.3	37.8 x 28.0 x 78.5	96.0 x 71.1 x 199.4	315 (143)	TSG2325FA
-15°C to -29°C (-25°C)	51.1 (1,447)	115V, 60Hz (NEMA 5-15)	2 solid	8	Automatic	UL, cUL	28.5 x 52.5 x 58.0	72.4 x 133.4 x 147.3	37.8 x 56.5 x 78.5	96.0 x 143.5 x 199.4	510 (231)	TSG5025FA

# Designed from the ground up to help protect your work



Thermo Scientific™ TSG Series laboratory refrigerators and freezers are built specifically for laboratory and clinical\* environments, with the distinct needs of users in these environments in mind. Offering quiet, intuitive operation with excellent temperature performance, TSG Series refrigerators and freezers can help meet the needs of a wide variety of users who need consistent, reliable performance without sacrificing usability.

## Sustainable and environmentally friendly

TSG Series refrigerators and freezers are designed with features that support sample protection as well as sustainability objectives, such as the US Environmental Protection Agency's Significant New Alternatives Policy (SNAP) and the European Union's F-gas Regulations. Also, they are manufactured in our zero-waste-to-landfill factory located in Asheville, North Carolina. See ordering tables for models with ENERGY STAR™ certification.

## Focus on your work, not your equipment

Purpose-built TSG Series refrigerators and freezers incorporate internal design elements to help reduce their acoustic footprint. Offering quiet operation without sacrificing performance or sustainability means you can bring the units out of the hallway and back into your lab without disrupting your aural environment, enabling you to streamline your workflows and increasing efficiency for your lab.

## Intuitive operation

The modern controller on TSG Series refrigerators and freezers is intuitive and easy to use, offering quick access to the temperature setpoint, alarm logs, and settings with a bright, easy-to-read display. The controller provides low- and high-temperature, power failure, and door ajar alarms, as well as onboard data logging of high and low temperatures and alarm events.

## Outstanding sample protection

Temperature variation can have an impact on the viability and efficacy of vaccines, medication, reagents, and other temperature-sensitive materials. These variations can shorten product shelf life, degrade samples, and reduce vaccine effectiveness. Therefore, it is important to choose a laboratory refrigerator or freezer that has been designed for the demanding standards of the laboratory and clinical\* environment, such as TSG Series refrigerators and freezers. The TSG Series cold-storage units have been designed from the ground up to provide excellent door-open recovery and temperature uniformity at all times, enabling you to rest easy with the knowledge that your samples are secure.

# Options and accessories

Productive use of TSG Series refrigerators and freezers can be enhanced with options and accessories specifically designed to help improve utility and convenience.

## **Before ordering**

Serial number tags on all TSG Series refrigerators and freezers provide the model number and voltage information needed for the accurate selection of available field installation options. Please also refer to the refrigerator and freezer ordering charts in this brochure for model numbers and voltage information.

## **4–20 milliamp transmitters**

4–20 milliamp transmitters offer a point-to-point circuit to transmit signals from refrigerator and freezer sensors to a controller, sending an analog signal from 4 to 20 milliamps.

## **Temperature chart recorders**

Chart recorders are 6 in. (15.2 cm), constructed with pressure-sensitive paper, and contain seven days per page. One box of 50 charts is included with your order.

## **Seismic restraint kits**

Seismic restraint kits can help provide additional stability for regions prone to earthquakes.

# Options

For use with refrigerator and freezer size:	11.5 cu. ft. (325 L)	23 cu. ft. (650 L)	29.2 cu. ft. (826 L)	45.8 cu. ft. (1,297 L)	51.1 cu. ft. (1,447 L)
	Cat. No.				
6 in. 7-day inkless chart recorders, −40°C to +25°C					
Free-standing, customer-installed, 115 V, 60 Hz models	6383-7A				
Free-standing, customer-installed, 208–230 V, 60 Hz models	6383-7D				
Free-standing, customer-installed, 230 V, 50 Hz models (EU)	6383-7V				
Free-standing, customer-installed, 230 V, 50 Hz models (UK)	6383-7W				
Replacement chart paper, box of 50	6184				
4–20 milliamp transmitters					
Nonpowered, customer-installed	6907-2				

# Accessories

For use with refrigerator and freezer size:	11.5 cu. ft. (325 L)	23 cu. ft. (650 L)	29.2 cu. ft. (826 L)	45.8 cu. ft. (1,297 L)	51.1 cu. ft. (1,447 L)
	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
<b>Shelves</b>					
Epoxy-coated, full-size shelf	7125	6696	6695	6696	
Epoxy-coated, half-size shelf		6698	6697	6698	
Stainless steel, full-size shelf	6696-3	6696-1	6695-1	6696-1	6696-1
<b>Roll-out drawers</b>					
Complete set [Cat. No. (Qty)]	7445 (5)	6699 (6)	6704 (6)		6700 (12)
Single drawers	7122	6702	6725		6702
<b>Drawer dividers for roll-out, stainless steel drawers</b>					
4-place divider, order one divider per drawer	7027 (4)	6206 (4)	6963 (5)		6206 (4)
<b>Additional wire basket drawers</b>					
Single drawer, for pharmacy refrigerators	WB12	WB23/50	WB30		WB23/50
<b>Seismic restraint kits</b>					
Basic	TFR210				
For OSHPD	TF-LRF12	TF-LRF23	TF-LRF30	TF-LRF50	TF-LRF50

# Services

TSG Series high-performance refrigerators and freezers are designed to meet UL and CE criteria for safety and performance. All connections must comply with local electrical codes.

Selection charts for each standard model list voltage, rated amperage, recommended circuit breaker size, and NEMA (National Electrical Manufacturers' Association, USA) electrical plug information.

- Most refrigerators and freezers are supplied with line cord plugs, which require corresponding receptacles
- Site preparation requires availability of the proper receptacle; a dedicated circuit is required
- Special voltage selections may be available at an extra cost and must be specified when ordering
- For questions regarding site preparation, installation, and electrical connection, contact your sales representative

## Certificate of Calibration

Control, alarm, and temperature recording systems are systematically calibrated at the factory to enable accurate performance. An optional Certificate of Calibration to a NIST™ (National Institute of Standards and Technology, formerly National Bureau of Standards)-traceable instrument includes a model number and serial number certificate (single-point calibration). Calibration certificates must be requested when ordering; for details, contact your sales representative.

## Ordering information

Services description	Cat. No.
<b>Services ordered with refrigerator/freezer—must be ordered with unit</b>	
Certificate of Calibration	6916-2
Factory quality control test log report	6916-4
Factory quality control test temperature graphs	6916-5
<b>Services ordered after refrigerator/freezer shipment—must be ordered separately</b>	
Certificate of Conformance	6916-6
Certificate of Calibration	6916-7
Factory quality control test log report	6916-9

# Other accessories



## Wireless monitoring

The Thermo Scientific™ Smart-View™ Pro system is a remote monitoring solution for sample processing and storage applications from research to production and patient care. This advanced solution is connected by a secure, long-range, and dedicated network that can enable 21 CFR Part 11–compliant data logging and monitoring of critical parameters across your laboratory equipment.



## Clinical containers

Made with the highest-quality resins, Thermo Scientific™ Nalgene™ bottles are engineered to work together with a proprietary valve seal and a strong, semibuttress thread design. Nalgene bottles offer a leakproof guarantee\*\* because we manufacture and test both components together as part of our routine quality program.



## Gibco media

Gibco™ media, sera, supplements, cells, and cell culture reagents are designed to help deliver reproducibility and performance for results you can count on. Regardless of whether you are performing cell culture in a research lab or production facility, need a special or defined formulation, or are growing cell lines, primary cells, or stem cells, Gibco products offer a reliable solution.

\* This product is not considered a medical device and has not been evaluated for use in environments or applications involving the diagnosis of diseases or other conditions, or in the cure, mitigation, treatment, or prevention of disease, in man or other animals.

\*\* Our guarantee for a leakproof seal is subject to our standard product warranty, as set forth in the Thermo Fisher Scientific Terms and Conditions of Sale. Our products are leakproof at ambient temperature and pressure when used with their corresponding closures. However, to ensure safe usage, customers are advised to test our containers and closures under conditions of their planned applications. Please contact [technicalsupport@thermofisher.com](mailto:technicalsupport@thermofisher.com) if you need additional information about our products.

Learn more at [thermofisher.com/tsg](https://thermofisher.com/tsg)

**thermo** scientific

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