



TSG Series laboratory and pharmacy refrigerators and freezers

An exceptional environment inside and out

Find it at eu.fishersci.com

Designed from the ground up to help protect your work



Thermo Scientific™ TSG Series laboratory and pharmacy refrigerators 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 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 laboratory and pharmacy refrigerators 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. Each product is ENERGY STAR™-certified and has an ACT™ Environmental Impact Factor Label that provides clear, third party-verified information about the environmental impact of laboratory products. Finally, TSG Series refrigerators are manufactured in our zero-waste-to-landfill factory located in Asheville, North Carolina.

Focus on your work, not your equipment

The purpose-built TSG Series refrigerator incorporates internal design elements to help reduce its acoustic footprint. Offering quiet operation without sacrificing performance or sustainability means you can bring the refrigerator 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 laboratory and pharmacy refrigerators 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 that has been designed for the demanding standards of the laboratory and clinical environment, such as the Thermo Scientific TSG Series refrigerator. The TSG Series has 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.

TSG Series glass-door refrigerators



TSG Series glass-door refrigerators are purpose-built in their entirety to help meet your cold storage needs, offering quiet operation, outstanding performance, and sustainable design.

- Five convenient sizes ranging from 326L to 1447L
- Quiet operation at less than 53 dB for all models
- ENERGY STAR–certified refrigerator models
- Heat-free defrost
- Double-pane glass 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 7–9 for accessories



Thermo Scientific™
glass-door refrigerator



TSG Series glass-door refrigerators

Temp. range (set point)	Capacity (L)	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.
2–8°C (5°C)	326	208–230 V, 50 Hz (CEE 7/7)	1 glass	4	Automatic	UL, cUL, CE	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	346 (157)	17876298
2–8°C (5°C)	650	208–230 V, 50 Hz (CEE 7/7)	1 glass	4	Automatic	UL, cUL, CE	28.5 x 24 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	401 (182)	17866298
2–8°C (5°C)	827	208–230 V, 50 Hz (CEE 7/7)	1 glass	4	Automatic	UL, cUL, CE	28.5 x 30.0 x 58.0	72.3 x 76.2 x 147.3	37.3 x 34.0 x 78.5	94.7 x 86.4 x 199.4	434 (197)	17896298
2–8°C (5°C)	1297	208–230 V, 50 Hz (CEE 7/7)	Double sliding glass	8	Automatic	UL, cUL, CE	26 x 52.5 x 58.0	66.0 x 133.4 x 147.3	36.6 x 56.5 x 78.5	93.1 x 143.5 x 199.4	597 (271)	17886298
2–8°C (5°C)	1447	208–230 V, 50 Hz (CEE 7/7)	2 glass	8	Automatic	UL, cUL, CE	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	631 (286)	17846298

TSG Series solid-door refrigerators



TSG Series solid-door refrigerators are purpose-built through and through to help meet your cold storage needs, offering quiet operation, outstanding performance, and sustainable design.

- Four convenient sizes ranging from 326L to 1447L
- Quiet operation at less than 53dB
- ENERGY STAR–certified refrigerator models
- Heat-free defrost
- 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 7–9 for accessories

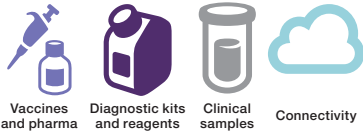


**Thermo Scientific™
solid-door refrigerator**

TSG Series solid-door refrigerators

Temp. range (set point)	Capacity (L)	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.
2–8°C (5°C)	326	208–230 V, 50 Hz (CEE 7/7)	1 solid	4	Automatic	UL, cUL, CE	21.8 x 20.0 x 52.4	55.4 x 50.8 x 133.1	31.1 x 24.0 x 73.0	79.0 x 61.9 x 185.4	346 (157)	17866288
2–8°C (5°C)	650	208–230 V, 50 Hz (CEE 7/7)	1 solid	4	Automatic	UL, cUL, CE	28.5 x 24 x 58.0	72.3 x 61.0 x 147.3	37.9 x 28.0 x 78.5	96.2 x 71.1 x 199.4	401 (182)	17826298
2–8°C (5°C)	827	208–230 V, 50 Hz (CEE 7/7)	1 solid	4	Automatic	UL, cUL, CE	28.5 x 30.0 x 58.0	72.3 x 76.2 x 147.3	37.9 x 34.0 x 78.5	96.0 x 86.4 x 199.4	434 (197)	17806298
2–8°C (5°C)	1447	208–230 V, 50 Hz (CEE 7/7)	2 solid	8	Automatic	UL, cUL, CE	28.5 x 52.5 x 58.0	72.4 x 133.4 x 147.3	37.9 x 56.5 x 78.5	96.2 x 143.5 x 199.4	631 (286)	17836298

TSG Series pharmacy refrigerators



Specialized for clinical and pharmaceutical applications, TSG Series pharmacy refrigerators are purpose-built from the ground up to enable maximum security and temperature stability for vaccines, pharmaceuticals, and other cargo.

- Four convenient sizes ranging from 326L to 1447L
- Additional independent temperature display probe
- Quiet operation at less than 53 dB
- ENERGY STAR–certified refrigerators
- Heat-free defrost
- Double-pane glass 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
- Remote alarm contacts
- Rear access port
- Keyed door locks, compatible with popular E-lock adapters
- See pages 7–9 for accessories



Thermo Scientific™
pharmacy refrigerator



TSG Series pharmacy refrigerators

Temp. range (set point)	Capacity (L)	Electrical plug	Doors	Basket drawers	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.
2–8°C (5°C)	326	208–230 V, 50 Hz (CEE 7/7)	1 glass	5 wire baskets	Automatic	UL, cUL, CE	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	392 (178)	17856298
2–8°C (5°C)	650	208–230 V, 50 Hz (CEE 7/7)	1 glass	6 wire baskets	Automatic	UL, cUL, CE	28.5 x 24 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	474 (215)	17856288
2–8°C (5°C)	827	208–230 V, 50 Hz (CEE 7/7)	1 glass	6 wire baskets	Automatic	UL, cUL, CE	28.5 x 30.0 x 58.0	72.3 x 76.2 x 147.3	37.3 x 34.0 x 78.5	94.7 x 86.4 x 199.4	516 (234)	17816298
2–8°C (5°C)	1447	208–230 V, 50 Hz (CEE 7/7)	2 glass	12 wire baskets	Automatic	UL, cUL, CE	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	789 (358)	17806308

TSG Series freezers

Thermo Scientific™ TSG Series freezers are designed with your laboratory in mind, combining the performance, security, and quality required for everyday laboratory applications.

- Wide range of sizes from solid door 400L to 1,500L double door
- Whisper-quiet operation <60 dBA
- White painted interior and exterior
- Adaptive defrost
- Temperature, door ajar, and power failure (with battery backup) alarms
- Low heat output
- Rear access port
- Keyed lock
- LED interior lighting
- Green hydrocarbon refrigerants
- Remote alarm contacts



TSG Freezers -12°C to -25°C operating range at set point (-20°C set point)

Model No.	Capacity (L)	Doors	Shelves	Dimensions WxDxH (mm)	Voltage	Energy	Plug Type	Packaging		
17107748	400	1 Solid	4	600 x 655 x 1955	230V/ 50Hz	7 kWh/day	EU	Box		
17127748								Crate		
17117748							UK	Box		
17137748								Crate		
17127758	700		2 Solid	4		750 x 840 x 2100	11 kWh/day	6.6 kWh/day	EU	Box
17147758										Crate
17137758									UK	Box
17157758										Crate
17187728	1500	8		1440 x 825 x 2070	11 kWh/day	11 kWh/day		EU	Box	
17107738									Crate	
17197728								UK	Box	
17117738									Crate	

Accessories for TSG Freezers

Cat. No.	Description
17776424	Shelf and 4 shelf clips for TSG400 models
17299749	Shelf and 4 shelf clips for TSG700 and TSG1500 models

Options and accessories

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

Before AA

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.

Remote alarm modules

Free-standing remote alarm modules tie in to the standard remote alarm terminals on the refrigerators and freezers.

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.

E-lock adapter kits

E-locks provide access control with audit-trail capabilities, as well as temperature monitoring. These kits require no electricity and are available in both factory- and customer-installed options for CompX™, Pyxis™, Omnicell™, and McKesson™ locks.

Options

For use with refrigerator size:	325 L	650 L	826 L	1,297 L	1,447 L
	Cat. No.				
6 in. 7-day inkless chart recorders, -40°C to +25°C					
Free-standing, customer-installed, 230 V, 50 Hz models (EU)	10414392				
Free-standing, customer-installed, 230 V, 50 Hz models (UK)	13161034				
Replacement chart paper, box of 50	11888773				
4-20 milliamp transmitters					
Nonpowered, customer-installed	16668142				

Accessories

For use with refrigerator size:	325 L	650 L	826 L	1,297 L	1,447 L
	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Shelves					
Epoxy-coated, full-size shelf		10123692	11762318		10123692
Epoxy-coated, half-size shelf		11749863			11749863
Roll-out drawers					
Complete set [Cat. No. (Qty)]		13493918			
Single drawers	15496254	15383985			15383985
Additional wire basket drawers					
Single drawer, for pharmacy refrigerators	17899775	17874797			17874797
Thermo Scientific™ Lab Cooler Module					
Holds twenty-four 1.5 mL tubes and eight 0.5 mL tubes		10670571			
Seismic restraint kits					
Basic			17532365		

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 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.

Other accessories



Wireless monitoring

The Thermo Scientific™ Smart-Vue™ 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 if you need additional information about our products.

Learn more at eu.fishersci.com

Distributed by Fisher Scientific. Contact us today:

Austria: fishersci.at Belgium: fishersci.be Denmark: fishersci.dk
 Germany: fishersci.de Ireland: fishersci.ie Italy: fishersci.it
 Finland: fishersci.fi France: fishersci.fr Netherlands: fishersci.nl
 Norway: fishersci.no Portugal: fishersci.pt Spain: fishersci.es
 Sweden: fishersci.se Switzerland: fishersci.ch UK: fishersci.co.uk

 **fisher scientific**
 part of Thermo Fisher Scientific

For Laboratory Use. It is the customer's responsibility to ensure that the performance of the product is suitable for customers' specific use or application. © 2019–2024 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. The ENERGY STAR name and mark are trademarks owned by the US EPA. ACT is a trademark of My Green Lab. CompX is a trademark of CompX International, Inc. Pyxis is a trademark of CareFusion Corporation. Omnicell is a trademark of Omnicell, Inc. McKesson is a trademark of McKesson Corporation. Teflon is a trademark of the Chemours Company FC, LLC. Velcro is a trademark of Velcro IP Holdings LLC. NEMA is a trademark of the National Electrical Manufacturers Association. NIST is a trademark of the National Institute of Standards and Technology. Specifications, terms, and pricing are subject to change. Not all products are available in all countries. Please consult your sales representative for details. **COL121934 0124**