

thermoscientific



# TSG Series General Purpose Refrigerators and Freezers

Reliable sample storage and protection

**ThermoFisher**  
SCIENTIFIC

# Designed for your everyday laboratory needs

The Thermo Scientific™ TSG Series general purpose laboratory refrigerators, chromatography refrigerators, and laboratory freezers are designed with your needs in mind. The TSG series is ideal for the demanding requirements of daily use in research, clinical, and industrial laboratories storing reagents, media, proteins, and samples used daily in the lab.

The TSG Series of general purpose cold storage products is built with the performance, security, and quality features you have come to expect from Thermo Scientific:

- EPA ENERGY STAR® certified
- Whisper-quiet refrigeration systems
- Safety sensor protected interior outlet on chromatography models
- Temperature, power failure, and door ajar alarms
- Green, natural refrigerants
- 2 year parts and labor, plus 3 year compressor warranty



TSG Series Single Glass Door Refrigerator



TSG Series Double Solid Door Refrigerator



TSG Series Triple Glass Door Refrigerator

# Built with the performance, security, and quality you've come to expect



## Performance

- Refrigerators: 2° to 10°C cabinet temperature range (5°C factory setpoint)
- Freezers -12° to -30°C cabinet temperature range (-23°C factory setpoint)
- 51 dBA whisper-quiet operation
- Low heat output
- Adaptive defrost
- Digital controller
- ENERGY STAR certified
- Green refrigerants

## Security

- High and Low temperature alarms (audible and visual)
- Door ajar alarm (except sliding glass door models)
- Power failure alarm with battery back-up
- Remote alarm contacts
- Keyed door locks
- Hydrocarbon safety sensor protected interior duplex outlet (chromatography models only)

## Quality

- 2 years parts and labor, plus 3 year compressor warranty
- cULus certified
- Refrigerators: painted steel exterior in white or gray
- Freezers: Painted steel exterior, stainless steel door
- Stainless steel interior available on some models
- Reduced compressor cycle time improves reliability



Interior Outlet (option)



Keyed door lock

# Thermo Scientific TSG Series Refrigerators



Double Glass Door options



Solid and Glass Single Door options

TSG Series General Purpose Refrigerators are designed with your laboratory in mind, combining the performance, security, and quality required for everyday laboratory applications.

- Featuring a wide range of cabinet sizes from 12 cu. ft. to 72 cu. ft.
- Whisper-quiet operation at 51 dBA
- ENERGY STAR certified
- Adaptive defrost
- Glass (double pane) or solid door configurations
- Choice of white painted interior and exterior, or stainless steel interior and gray exterior
- LED interior lighting
- Temperature, door ajar, and power failure (with battery back-up) alarms
- Digital controller
- Low heat output
- Rear access port
- Keyed door lock(s)

## TSG Series General Purpose Refrigerators

Model no.	Temp. range (setpoint)	Capacity cu. ft. (liters)	Electrical (plug)	Doors	Exterior/Interior Color	Shelves	Defrost	Certification	Exterior dimensions D x W x H in. (mm)	Interior dimensions D x W x H in. (mm)	Shipping weight lbs. (kg)
TSG12RPGA	2-10°C (5°C)	12 (339)	115V, 60Hz (NEMA 5-15)	1 Glass	white/white	4	Adaptive	cULus, ENERGY STAR	25 x 24.75 x 75.8 (635 x 629 x 1926)	20.75 x 21 x 45.75 (527 x 533 x 1162)	230 (105)
TSG25RPGA		23 (651)							32 x 27.75 x 81 (813 x 705 x 2057)	28.5 x 24 x 61.75 (724 x 610 x 1569)	392 (178)
TSG30RPGA		27 (764)							32 x 30.75 x 81 (813 x 781 x 2057)	28.5 x 27 x 61.75 (724 x 686 x 1569)	386 (175)
TSG45RPLA		45 (1274)		2 Slide Glass		8			32 x 52.7 x 81 (813 x 1339 x 2057)	27 x 49 x 61.75 (686 x 1245 x 1569)	561 (255)
TSG49RPGA		49 (1387)		2 Glass					597 (271)		
TSG72RPGA		72 (2038)	3 Glass	12	32 x 75.7 x 81 (813 x 1924 x 2057)	28.5 x 72 x 61.75 (724 x 1829 x 1569)	733 (332)				
TSG25RPSA	2-10°C (5°C)	23 (651)	115V, 60Hz (NEMA 5-15)	1 solid	white/white	4	Adaptive	cULus, ENERGY STAR	32 x 27.75 x 81 (813 x 705 x 2057)	28.5 x 24 x 61.75 (724 x 610 x 1569)	392 (178)
TSG30RPSA		27 (764)							32 x 30.75 x 81 (813 x 781 x 2057)	28.5 x 27 x 61.75 (724 x 686 x 1569)	386 (175)
TSG49RPSA		49 (1387)		2 solid		8			32 x 52.7 x 81 (813 x 1339 x 2057)	27 x 49 x 61.75 (686 x 1245 x 1569)	597 (271)
TSG25RSGA	2-10°C (5°C)	23 (651)	115V, 60Hz (NEMA 5-15)	1 Glass	gray/stainless steel	4	Adaptive	cULus, ENERGY STAR	32 x 27.75 x 81 (813 x 705 x 2057)	28.5 x 24 x 61.75 (724 x 610 x 1569)	392 (178)
TSG30RSGA		27 (764)							32 x 30.75 x 81 (813 x 781 x 2057)	28.5 x 27 x 61.75 (724 x 686 x 1569)	386 (175)
TSG45RSLA		45 (1274)		2 Slide Glass		8			32 x 52.7 x 81 (813 x 1339 x 2057)	27 x 49 x 61.75 (686 x 1245 x 1569)	561 (255)
TSG49RSGA		49 (1387)		2 Glass					597 (271)		
TSG72RSGA				72 (2038)		3 Glass			12	32 x 75.7 x 81 (813 x 1924 x 2057)	28.5 x 72 x 61.75 (724 x 1829 x 1569)
TSG25RSSA	2-10°C (5°C)	23 (651)	115V, 60Hz (NEMA 5-15)	1 solid	gray/stainless steel	4	Adaptive	cULus, ENERGY STAR	32 x 27.75 x 81 (813 x 705 x 2057)	28.5 x 24 x 61.75 (724 x 610 x 1569)	392 (178)
TSG30RSSA		27 (764)							32 x 30.75 x 81 (813 x 781 x 2057)	28.5 x 27 x 61.75 (724 x 686 x 1569)	386 (175)
TSG49RSSA		49 (1387)		2 solid		8			32 x 52.7 x 81 (813 x 1339 x 2057)	28.5 x 49 x 61.75 (724 x 1245 x 1569)	597 (271)



# Thermo Scientific TSG Series Chromatography Refrigerators



TSX Single Glass Door Chromatography Refrigerator

TSG Series Chromatography Refrigerators are designed with your chromatography applications in mind.

- Featuring a wide range of cabinet sizes from 30 cu. ft. to 72 cu. ft.
- Hydrocarbon safety sensor protected interior duplex outlet
- Whisper-quiet operation at 51 dBA
- ENERGY STAR certified
- Adaptive defrost
- Double pane glass doors
- Choice of white painted interior and exterior, or stainless steel interior and gray exterior
- LED interior lighting
- Temperature, door ajar, and power failure (with battery back-up) alarms
- Digital controller
- Low heat output
- Rear access port, plus two 2-inch side access ports
- Keyed door lock(s)



Interior Outlet and Hydrocarbon Safety Sensors



TSX Double Glass Door Chromatography Refrigerator

## TSG Series Chromatography Refrigerators

Model no.	Temp. range (setpoint)	Capacity cu. ft. ( liters)	Electrical (plug)*	Doors	Exterior/ Interior Color	Shelves (half shelves)	Defrost	Certification	Exterior dimensions D x W x H in. (mm)	Interior dimensions D x W x H in. (mm)	Shipping weight lbs. (kg)
TSG30CPGA	2-10°C (5°C)	27 (764)	115V, 60Hz (NEMA 5-15) (2)	1 Glass	white/ white	4 (3)	Adaptive	cULus, ENERGY STAR	32 x 30.75 x 81 (813 x 781 x 2057)	28.5 x 27 x 61.75 (724 x 686 x 1569)	386 (175)
TSG45CPLA		45 (1274)		2 Slide Glass		8 (2)			32 x 52.7 x 81 (813 x 1339 x 2057)	27 x 49 x 61.75 (686 x 1245 x 1569)	561 (255)
TSG49CPGA		49 (1387)		2 Glass		8 (2)			32 x 52.7 x 81 (813 x 1339 x 2057)	27 x 49 x 61.75 (686 x 1245 x 1569)	597(271)
TSG72CPGA		72 (2038)		3 Glass		12 (2)			32 x 75.7 x 81 (813 x 1924 x 2057)	28.5 x 72 x 61.75 (724 x 1829 x 1569)	733(332)
TSG30CSGA	2-10°C (5°C)	27 (764)	115V, 60Hz (NEMA 5-15) (2)	1 Glass	gray/ stainless steel	4 (3)	Adaptive	cULus, ENERGY STAR	32 x 30.75 x 81 (813 x 781 x 2057)	28.5 x 27 x 61.75 (724 x 686 x 1569)	386 (175)
TSG45CSLA		45 (1274)		2 Slide Glass		8 (2)			32 x 52.7 x 81 (813 x 1339 x 2057)	28.5 x 49 x 61.75 (724 x 1245 x 1569)	561 (255)
TSG49CSGA		49 (1387)		2 Glass		8 (2)			32 x 52.7 x 81 (813 x 1339 x 2057)	28.5 x 49 x 61.75 (724 x 1245 x 1569)	597 (271)
TSG72CSGA		72 (2038)		3 Glass		12 (2)			32 x 75.7 x 81 (813 x 1924 x 2057)	28.5 x 72 x 61.75 (724 x 1829 x 1569)	733 (332)

\* Chromatography Refrigerators are supplied with two power cords (one for the unit and one for the internal receptacle and Hydrocarbon Safety Sensor)

# Thermo Scientific TSG Series Freezers



Double and Single Door options

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

- Available in 25 cu. ft. or 49 cu. ft. sizes
- Whisper-quiet operation at 51 dBA
- ENERGY STAR certified
- Adaptive defrost
- Stainless steel interior and gray exterior
- Temperature, door ajar, and power failure (with battery back-up) alarms
- Digital controller
- Low heat output
- Rear access port
- Keyed door lock(s)

## TSG Series General Purpose Freezers

Model no.	Temp. range (setpoint)	Capacity cu. ft. (liters)	Electrical (plug)	Doors	Exterior/Interior Color	Shelves	Defrost	Certification	Exterior dimensions D x W x H in. (mm)	Interior dimensions D x W x H in. (mm)	Shipping weight lbs. (kg)
TSG25FSSA	-12—-24°C (-23°C)	26.5 (750)	115V, 60Hz (NEMA 5-15)	1 solid	gray/stainless steel	3	Automatic	cULus, ENERGY STAR	33.75 x 30 x 82 (857.3 x 762 x 2082.8)	26 x 27 x 61.6 (660 x 658.8 x 1564.6)	516 (234)
TSG49FSSA		46.2 (1308)		2 solid		6			33.75 x 52 x 82 (857.3 x 1320.8 x 2082.8)	26 x 49 x 61.6 (660 x 1244.6 x 1564.6)	640 (290)

# Thermo Scientific TSG Series Accessories

## TSG Series Refrigerators Accessories Ordering Guide

For use with refrigerator size	12 cu. ft. (339L)	23 cu. ft. (651 L)	27 cu. ft. (764 L)	45 cu. ft. (1447 L)	49 cu. ft. (1387 L)	72 cu. ft. (2038 L)
Customer-Installed Accessories	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
Full Shelf with Clips (1 white wire shelf and 4 mounting clips)	7510TA	7511TA	AY2100X1		AY2095X2	AY2102X2
Full Shelf with Clips (1 gray wire shelf and 4 mounting clips)		7512TA	7513TA		AY2098X1	7514TA
Half Shelf with Clips (1 white wire shelf and 4 mounting clips)			AY2020X2		7520TA	AY2102X1
Half Shelf with Clips (1 gray wire shelf and 4 mounting clips)			7518TA		7521TA	7522TA
<b>6" 7-day inkless chart recorders, -40°C to +25°C</b>			<b>Model no. (all sizes)</b>			
Free-standing, customer-installed, 115V, 60Hz models						6383-7A
Replacement chart paper, box of 50						6184

## TSG Series Freezers Accessories Ordering Guide

For use with freezer size	26.5 cu. ft. (750 L)	746.2 cu. ft. (1308 L)
Customer-Installed Accessories	Model No.	Model No.
Full Shelf with Clips (1 white wire shelf and 4 mounting clips)	AY2100X1	AY2102X2
<b>6" 7-day inkless chart recorders, -40°C to +25°C</b>		<b>Model no. (all sizes)</b>
Free-standing, customer-installed, 115V, 60Hz models		6383-7A
Replacement chart paper, box of 50		6184



Smart Tracker wireless monitoring device



Thermo Scientific Samco Clicktainer Vials and specimen containers



Thermo Scientific™ TSG505 under counter refrigerator

Visit [thermofisher.com](http://thermofisher.com) for accessories, wireless monitoring, consumables, media, reagents and more.



## Thermo Scientific™ Smart-Vue™ Wireless Monitoring Systems

With so much at stake, obsessive is smart

The Smart-Vue wireless monitoring system offers a complete and simplified solution to monitor critical samples stored inside your ultra-low temperature freezer.

This wireless solution features audit trail traceability to assist with conformance to 21 CFR part 11 and other regulatory requirements while safeguarding critical samples.

Visit [thermofisher.com/smart-vue](http://thermofisher.com/smart-vue)

### Smart

Continuous, real-time monitoring of critical parameters – alerting you remotely when sample integrity is threatened

### Scalable

Flexibility to grow with your expanding laboratory needs

### Simple

Easy to install, use and maintain

**For more information, contact your sales representative.  
Smart-Vue is not available in all Radio Frequency (RF) regions.**

Note: Smart-Vue wireless monitoring kits are designed for first time users monitoring critical temperature parameters in ultra-low temperature freezers. Smart-Vue modules and sensors are available for temperature, RH, CO<sub>2</sub> concentration, differential pressure, 4-20mA output, ambient conditions and alarm/relay dry contacts. Solutions vary by RF regions worldwide and are compatible with multiple types of laboratory equipment. Please ask your sales representative to evaluate a Smart-Vue wireless monitoring solution that best meets your specific needs.



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