



Thermo Scientific™  
TSG4505G  
Refrigerator



Thermo Scientific™  
TSG2305S  
Refrigerator



Thermo Scientific™  
TSG5025F  
Freezer



Thermo Scientific™  
TSG1205P  
Refrigerator

# TSG Series refrigerators and freezers

An exceptional environment inside and out

# 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.

## **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.

# 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 12 cu. ft. to 49 cu. ft.
- Quiet operation at less than 53 dB for all 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 8–10 for accessories
- Additional models available in 208–230V; see page 7 for details

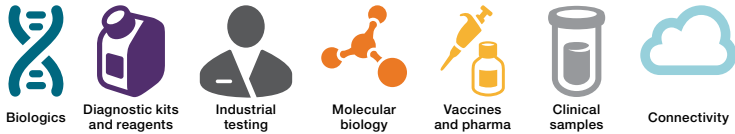


**Thermo Scientific™  
TSG3005G Refrigerator**

## TSG Series glass-door lab refrigerators

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.
4–7°C (5°C)	12.0 (326)	115V, 60Hz (NEMA 5-15)	1 glass	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	339 (154)	TSG1205GA
4–7°C (5°C)	23.0 (650)	115V, 60Hz (NEMA 5-15)	1 glass	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	450 (204)	TSG2305GA
4–7°C (5°C)	29.2 (827)	115V, 60Hz (NEMA 5-15)	1 glass	4	Automatic	UL, cUL	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	458 (208)	TSG3005GA
4–7°C (5°C)	45.8 (1,297)	115V, 60Hz (NEMA 5-15)	Double sliding glass	8	Automatic	UL, cUL	26.0 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	611 (277)	TSG4505GA
4–7°C (5°C)	51.1 (1,447)	115V, 60Hz (NEMA 5-15)	2 glass	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	669 (303)	TSG5005GA

# 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 12 cu. ft. to 49 cu. ft.
- Quiet operation at less than 53 dB
- 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 8–10 for accessories
- Additional models available in 208–230V; see page 7 for details

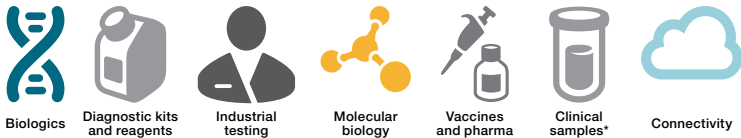


**Thermo Scientific™  
TSG1205S Refrigerator**

## TSG Series solid-door lab refrigerators

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.
4–7°C (5°C)	12.0 (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	31.1 x 24.0 x 73.0	79.0 x 61.9 x 185.4	340 (154)	TSG1205SA
4–7°C (5°C)	23.0 (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	37.9 x 28.0 x 78.5	96.2 x 71.1 x 199.4	426 (193)	TSG2305SA
4–7°C (5°C)	29.2 (827)	115V, 60Hz (NEMA 5-15)	1 solid	4	Automatic	UL, cUL	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	459 (208)	TSG3005SA
4–7°C (5°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	37.9 x 56.5 x 78.5	96.2 x 143.5 x 199.4	621 (282)	TSG5005SA

# TSG Series sample prep refrigerators



TSG Series sample prep refrigerators are equipped with a duplex outlet and purpose-built access ports to help meet your sample preparation needs for temperature control. They feature quiet operation, outstanding performance, and a sustainable design. The convenient interior outlet offers flexibility and an easy setup for benchtop equipment or an apparatus within the chamber—enabling you to shake, spin, and agitate samples in a temperature-controlled environment without investing in specialty benchtop equipment.

- Single- and double-door models ranging from 23 to 51 cubic feet
- Two 2-inch side wall access ports with insulated hinged covers for solvent, waste, and other common tubing and hoses
- Internal electrical duplex outlet is protected by a safety switch
- Heat-free defrost
- Double-pane glass doors
- Four 2-inch casters and front casters are lockable
- Quiet operation at less than 53 dB
- Keyed door locks are compatible with popular e-lock adapters
- Self-closing doors with 90° stop
- Bright LED interior lighting
- Alarms for temperature, door ajar, and power failure
- 12-hour controller battery backup
- Alarm can contact remotely
- Rear access port



Thermo Scientific™  
TSG5005CA  
Refrigerator

Temp range (set point)	Capacity	Electrical plug	Doors	Shelves	Defrost	Certification	Interior dimensions D x W x H	Exterior dimensions D x W x H	Shipping weight	Cat. No.
2–8°C (5°C)	23 cu. ft. (650 L)	115 V, 60 Hz (NEMA 5–15)	1 glass	4	Automatic	UL, cUL	28.5 x 24 x 58.0 in. (72.3 x 61.0 x 147.3 cm)	37.8 x 28.0 x 78.5 in. (96.0 x 71.1 x 199.4 cm)	463 lb (210 kg)	TSG2305CA
2–8°C (5°C)	29.2 cu. ft. (827 L)	115 V, 60 Hz (NEMA 5–15)	1 glass	4	Automatic	UL, cUL	28.5 x 30.0 x 58.0 in. (72.3 x 76.2 x 147.3 cm)	37.9 x 34.0 x 78.5 in. (96.0 x 86.4 x 199.4 cm)	471 lb (214 kg)	TSG3005CA
2–8°C (5°C)	45.8 cu. ft. (1,297 L)	115 V, 60 Hz (NEMA 5–15)	2 glass (sliding)	8	Automatic	UL, cUL	26 x 52.5 x 58.0 in. (66.0 x 133.4 x 147.3 cm)	36.6 x 56.5 x 78.5 in. (93.1 x 143.5 x 199.4 cm)	624 lb (283 kg)	TSG4505CA
2–8°C (5°C)	51.1 cu. ft. (1,447 L)	115 V, 60 Hz (NEMA 5–15)	2 glass	8	Automatic	UL, cUL	28.5 x 52.5 x 58.0 in. (72.4 x 133.4 x 147.3 cm)	37.8 x 56.5 x 78.5 in. (96.0 x 143.5 x 199.4 cm)	669 lb (309 kg)	TSG5005CA

# TSG Series pharmacy refrigerators



Vaccines  
and pharma



Diagnostic kits  
and reagents



Clinical  
samples



Connectivity

Specialized for clinical\* and pharmaceutical applications, TSG Series pharmacy refrigerators are purpose-built from the ground up to help meet NSF 456 vaccine storage standards to enable maximum security and temperature stability for vaccines, pharmaceuticals, and other cargo.

- Validated NSF 456 compliance
- Four convenient sizes ranging from 12 cu. ft. to 49 cu. ft.
- Additional independent temperature display probe
- Quiet operation at less than 53 dB
- 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 8–10 for accessories
- Additional models available in 208–230V; see page 7 for details



Thermo Scientific™  
TSG2305P Refrigerator

## TSG Series pharmacy refrigerators

Temp. range (set point)	Capacity cu. ft. (liters)	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.
4–7°C (5°C)	12.0 (326)	115V, 60Hz (NEMA 5-15)	1 glass	5 wire baskets	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	388 (176)	TSG1205PA
4–7°C (5°C)	23.0 (650)	115V, 60Hz (NEMA 5-15)	1 glass	6 wire baskets	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	531 (241)	TSG2305PA
4–7°C (5°C)	29.2 (827)	115V, 60Hz (NEMA 5-15)	1 glass	6 wire baskets	Automatic	UL, cUL	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	541 (245)	TSG3005PA
4–7°C (5°C)	51.0 (1,447)	115V, 60Hz (NEMA 5-15)	2 glass	12 wire baskets	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	830 (376)	TSG5005PA

# TSG Series auto-defrost freezers



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
- 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

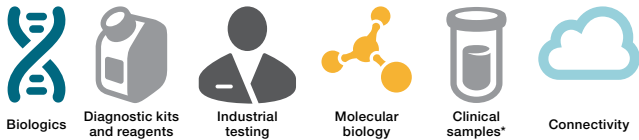


**Thermo Scientific™  
TSG2325FA Freezer**

## 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

# TSG Series refrigerators with stainless steel interiors



TSG Series solid- and glass-door refrigerators equipped with stainless steel interiors are purpose-built to help meet your cold storage needs, offering quiet operation, outstanding performance, and a sustainable design.

The premium stainless steel interiors on these models are easy to clean and offer an affordable solution for applications that are not compatible with painted interiors.

- Stainless steel interior
- Single- and double-door models ranging from 30 to 51 cubic feet
- Heat-free defrost
- Double-pane glass doors or insulated solid doors
- Four 2-inch casters; front casters are lockable
- Keyed door locks, compatible with popular e-lock adapters
- Self-closing doors 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
- Quiet operation at less than 53 decibels



**Thermo Scientific™  
TSG4505GSA  
Refrigerator**

Temp range (set point)	Capacity	Electrical plug	Doors	Shelves	Defrost	Certification	Interior dimensions D x W x H	Exterior dimensions D x W x H	Shipping weight	Cat. No.
2–8°C (5°C)	29.2 cu. ft. (827 L)	115 V, 60 Hz (NEMA 5–15)	1 glass	4	Automatic	UL, cUL	28.5 x 30.0 x 58.0 in. (72.3 x 76.2 x 147.3 cm)	37.9 x 34.0 x 78.5 in. (96.0 x 86.4 x 199.4 cm)	459 lb (208 kg)	TSG3005GSA
2–8°C (5°C)	29.2 cu. ft. (827 L)	115 V, 60 Hz (NEMA 5–15)	1 solid	4	Automatic	UL, cUL	28.5 x 30.0 x 58.0 in. (72.3 x 76.2 x 147.3 cm)	37.9 x 34.0 x 78.5 in. (96.0 x 86.4 x 199.4 cm)	459 lb (208 kg)	TSG3005SSA
2–8°C (5°C)	45.8 cu. ft. (1,297 L)	115 V, 60 Hz (NEMA 5–15)	2 sliding glass	8	Automatic	UL, cUL	26 x 52.5 x 58.0 in. (66.0 x 133.4 x 147.3 cm)	36.6 x 56.5 x 78.5 in. (93.1 x 143.5 x 199.4 cm)	611 lb (277 kg)	TSG4505GSA
2–8°C (5°C)	51.1 cu. ft. (1,447 L)	115 V, 60 Hz (NEMA 5–15)	2 glass	8	Automatic	UL, cUL	28.5 x 52.5 x 58.0 in. (72.4 x 133.4 x 147.3 cm)	37.8 x 56.5 x 78.5 in. (96.0 x 143.5 x 199.4 cm)	669 lb (303 kg)	TSG5005GSA
2–8°C (5°C)	51.1 cu. ft. (1,447 L)	115 V, 60 Hz (NEMA 5–15)	2 solid	8	Automatic	UL, cUL	28.5 x 52.5 x 58.0 in. (72.4 x 133.4 x 147.3 cm)	37.8 x 56.5 x 78.5 in. (96.0 x 143.5 x 199.4 cm)	669 lb (303 kg)	TSG5005SSA

# TSG Series refrigerators in 208–230V



Biologics



Diagnostic kits and reagents



Industrial testing



Molecular biology



Clinical samples



Connectivity

## TSG Series refrigerators in 208–230V

Temp. range (set point)	Capacity cu. ft. (liters)	Electrical plug	Doors	Shelves or 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.
4–7°C (5°C)	12.0 (326)	208–230V, 60Hz (NEMA 6-15)	1 glass	4 shelves	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	339 (154)	TSG1205GD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG1205GV
4–7°C (5°C)	23.0 (650)	208–230V, 50/60Hz (NEMA 6-15)	1 glass	4 shelves	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	429 (195)	TSG2305GD
		208–230V, 50/60Hz (CEE 7/7)				UL, cUL, CE						TSG2305GV
4–7°C (5°C)	29.2 (827)	208–230V, 60Hz (NEMA 6-15)	1 glass	4 shelves	Automatic	UL, cUL	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	458 (208)	TSG3005GD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG3005GV
4–7°C (5°C)	45.8 (1,297)	208–230V, 60Hz (NEMA 6-15)	Double sliding glass	8 shelves	Automatic	UL, cUL	26.0 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	611 (277)	TSG4505GD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG4505GV
4–7°C (5°C)	51.1 (1,447)	208–230V, 60Hz (NEMA 6-15)	2 glass	8 shelves	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	669 (303)	TSG5005GD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG5005GV
4–7°C (5°C)	12.0 (326)	208–230V, 60Hz (NEMA 6-15)	1 solid	4 shelves	Automatic	UL, cUL	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	340 (154)	TSG1205SD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG1205SV
4–7°C (5°C)	23.0 (650)	208–230V, 50/60Hz (NEMA 6-15)	1 solid	4 shelves	Automatic	UL, cUL	28.5 x 24.0 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	405 (184)	TSG2305SD
		208–230V, 50/60Hz (CEE 7/7)				UL, cUL, CE						TSG2305SV
4–7°C (5°C)	29.2 (827)	208–230V, 60Hz (NEMA 6-15)	1 solid	4 shelves	Automatic	UL, cUL	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	459 (208)	TSG3005SD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG3005SV
4–7°C (5°C)	51.1 (1,447)	208–230V, 60Hz (NEMA 6-15)	2 solid	8 shelves	Automatic	UL, cUL	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	621 (282)	TSG5005SD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG5005SV
4–7°C (5°C)	12.0 (326)	208–230V, 60Hz (NEMA 6-15)	1 glass	5 wire baskets	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	388 (176)	TSG1205PD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG1205PV
4–7°C (5°C)	23.0 (650)	208–230V, 50/60Hz (NEMA 6-15)	1 glass	6 wire baskets	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	510 (231)	TSG2305PD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG2305PV
4–7°C (5°C)	29.2 (827)	208–230V, 60Hz (NEMA 6-15)	1 glass	6 wire baskets	Automatic	UL, cUL	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	541 (245)	TSG3005PD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG3005PV
4–7°C (5°C)	51.0 (1,447)	208–230V, 60Hz (NEMA 6-15)	2 glass	12 wire baskets	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	830 (376)	TSG5005PD
		208–230V, 50Hz (CEE 7/7)				UL, cUL, CE						TSG5005PV

# 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.				
<b>6 in. 7-day inkless chart recorders, -40°C to +25°C</b>					
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				
<b>4–20 milliamp transmitters</b>					
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
<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.



### 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.

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