Thermo Scientific TSD Upright and TSC Chest Series Ultra-Low Temperature Freezers

Designed for daily sample protection and dependability

Thermo Fisher
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Thermo Scientific TSD Series Upright Ultra-Low Temperature Freezers

Your samples are our obsession

Thermo Scientific™ TSD Series Upright Freezers are designed for daily sample protection and dependability.

Choose TSD Series freezers when your storage requirements call for -10ºC to -40ºC. All models feature state-of-the-art refrigeration, rugged construction and easy-to-use microprocessor control.
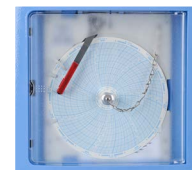
Thermo Scientific TSD Series Ultra-Low Temperature Upright Freezers

Rugged construction for everyday use

- Heavy gauge, cold-rolled steel cabinets with a powder coat paint finish for a uniform exterior that resists chipping and rust.

- 5" (12.7cm) foamed-in-place, polyurethane insulation reduces power consumption, maintains temperature setpoint and combined with triple-point door gasket, provides longer holding time in the event of a power loss.

- Advanced refrigeration system improves temperature control and increases reserve capacity, resulting in a more stable temperature sample.

- One 1" (25mm) access port allows for the use of independent probes or instrumentation.

- TSD Series freezers come standard with galvaneal interiors.

- Vacuum relief port permits easy access after door openings.

Microprocessor control
Centralized information center, including microprocessor control and monitoring system, ensures that all controls and displays are easy to reach and read.

Optional chart recorder
Optional built-in chart recorder can be installed at waist level.

Single-hand operation
Easy-to-use, ergonomic door handle with integrated key lock.

Optional CO$_2$ or LN$_2$ back-up
Optional choice of CO$_2$ or LN$_2$ safety back-up systems for additional sample protection in the event of a power or mechanical failure.

Easy-to-remove washable filter
Provides protection from dust on condenser, reducing the risk of refrigeration malfunction or risk to samples.

Thermo Scientific TSD Series -40°C Freezer

Thermo Scientific TSD Series Ultra-Low Temperature Upright Freezers

Specifications and ordering

Thermo Scientific TSD Series -40°C Upright Freezers
(Temperature Range: -10°C to -40°C)

Model No.	Capacity		Electrical		Max. Shelf Weight	Interior Dimensions	Exterior Dimensions	Shipping Weight
	cu. ft. (liters)	2 in. Cryobox	Voltage/Frequency	Amps/Breaker (Plug)	lbs. (kg)	H x W x D in. (cm)	H x W x D in. (cm)	lbs. (kg)
TSD40240A	13.0 (368)	240	115V / 60 Hz	16/20 (NEMA 5-20)	125 (57)	51.5 x 23.0 x 19.3 (130.8 x 58.4 x 49.0)	77.9 x 33.3 x 32.9 (197.9 x 84.6 x 83.6)	711 (323)
TSD40240D			208-230V / 60 Hz	12/15 (NEMA 6-15)				
TSD40240V			230V / 50 Hz	12/16 (European)				
TSD40320A	17.3 (490)	320	115V / 60 Hz	16/20 (NEMA 5-20)	125 (57)	51.5 x 23.0 x 25.3 (130.8 x 58.4 x 64.3)	77.9 x 33.3 x 38.9 (197.9 x 84.6 x 98.9)	830 (376)
TSD40320D			208-230V / 60 Hz	12/15 (NEMA 6-15)				
TSD40320V			230V / 50 Hz	12/16 (European)				
TSD40400D	23.0 (651)	400	115V / 60 Hz	16/20 (NEMA 5-20)	125 (57)	51.5 x 30.6 x 25.3 (130.8 x 77.7 x 64.3)	77.9 x 40.8 x 38.9 (197.9 x 103.6 x 98.9)	879 (399)
TSD40400V			230V / 50 Hz	12/16 (European)				

Monitoring and Remote Options

Model No.	Voltage	Description
5612-1A	120V / 60 Hz	**Remote Alarm with Audible Signal** Extend the freezers on-board alarms systems to remote locations in the facility.
5612-3V	230 V / 50 Hz	
400047	120V / 60 Hz	**Sensaphone™ Telephone Dialing System** Monitors up to four channels; Dials up to four numbers (not CE). Dedicated phone line is required
400182*	220V / 50Hz	
400134	120V / 60 Hz	**Sensaphone Telephone Dialing System** Monitors up to eight channels; Dials up to eight numbers (not CE). Dedicated phone line is required
400183	220V / 50Hz	
400048	120V / 60 Hz	**Temperature / Power Monitor** External Digital and audible / visual alarms monitor temperature and power supply of the freezer. Includes temperature probe
400049	220V / 50Hz	

Sensaphone™ Telephone Dialing System
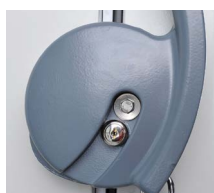
*Not for sale in the EU.

Thermo Scientific TSD Series Ultra-Low Temperature Upright Freezers

Options (Field-installed must be installed by a qualified professional)

Model No.	Installation	Description
1960447	Factory Installed	**LN$_2$ Backup System**
1960448	Field Installed	Maintains temperature down to -80°C with liquid nitrogen
1960445	Factory Installed	**CO$_2$ Backup System**
1960446	Field Installed	Maintains temperature down to -70°C with CO$_2$
201241	Factory Installed	**Ink Chart Recorder**
201240	Field Installed	6" (150mm), seven day ink recorder, to -150°C. Includes one red felt tip pen and box of chart paper (qty. 50)
201249	Factory Installed	**Inkless Chart Recorder**
201248	Field Installed	6" (150mm), seven day inkless recorder, to -150°C. Includes box of chart paper (qty. 50)
195915	Factory Installed	**Unique Key Lock**
290199	Factory Installed	
290211	Field Installed	**PT100 Sensor –** Optional PT100 sensor for connection to building automation systems

Accessories

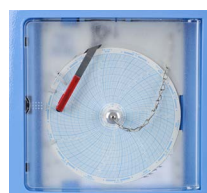| Model No.	Description
195890	**Replacement Air Filter** – Pack of five filters
400159	**Replacement Back-Up Battery**
991505	**High-Pressure Liquid CO$_2$ Hose** Kink-resistant, stainless steel lined, double-braided sheath. 316 stainless steel NPTF fitting. Max. working pressure 25,000 psig. 6' long
950316	**Wall Clamp** CO$_2$ cylinder holder for securing tank to the wall in accordance with OSHA guidelines
4000401	**LN$_2$ Transfer Hose** Flexible 6' metal hose. 0.5" diameter, 45° flare with swivel ends
17020	**Ink Chart Paper** (quantity: 50)
180000	**Inkless Chart Paper** (quantity: 50)
224134	**Shelf Kit for 240 box capacity freezer** (one shelf and clips)
224135	**Shelf Kit for 320 box capacity freezer** (one shelf and clips)
224158	**Shelf Kit for 400 box capacity freezer** (one shelf and clips)
224180	**Shelf Kit for 600 box capacity freezer** (one shelf and clips)
245231	**Red Felt Tip Chart Pen**
245232	**Blue Felt Tip Chart Pen**
4425	**Cryo Gloves** Medium
4426	**Cryo Gloves** Large
TF-ULT13	**Seismic restraint kit for 13 cu. ft. (368L)**
TF-ULT17	**Seismic restraint kit for 17.3 cu. ft. (490L)**
TF-ULT23	**Seismic restraint kit for 23 cu. ft. (651L)**
TF-ULT28	**Seismic restraint kit for 28 cu. ft. (600L)**

Unique Key Lock

Factory Installed Back-up Systems

Cryo Gloves

Factory-Installed Chart Recorder

Thermo Scientific TSD Series Ultra-Low Temperature Upright Freezers

Thermo Scientific TSD Series Upright Freezer Racks

2" Box Racks	Model No. Description	Dimensions H x W x D in. (cm)	Freezer Vol. cu. ft. (liters)	Boxes/Rack	Racks/Shelf	Racks/Freezer	Boxes/Freezer
	920094 Sliding drawer rack	11.9 x 5.5 x 16.6 (30.2 x 14 x 42.2)	13 (368.1)	15	4	16	240
	920096 Sliding drawer rack	11.9 x 5.5 x 22 (30.2 x 14 x 55.9)	17.3 (490)	20	4	16	320
			23 (651.3)	20	5	20	400
	1950726 Sliding drawer rack	11.9 x 5.5 x 26.3 (30.2 x 14 x 66.5)	28.1 (793)	25	6	24	600
	920015 Adjustable side access rack	11.6 x 5.4 x 16.5 (29.5 x 13.7 x 41.9)	13 (368.1)	15	4	16	240
	920022 Side access rack	11.6 x 5.4 x 24.6 (29.5 x 13.7 x 62.5)	17.3 (490)	22	4	16	352
			23 (651.3)	22	5	20	440
	920018 Adjustable side access rack	11.6 x 5.4 x 22 (29.5 x 13.7 x 55.8)	17.3 (490)	20	4	16	320
			23 (651.3)	20	5	20	400
3" Box Racks							
	920095 Sliding drawer rack	11.9 x 5.5 x 16.6 (30.2 x 14 x 44.2)	13 (368.1)	9	4	16	144
	920097 Sliding drawer rack	11.9 x 5.5 x 22 (30.2 x 14 x 55.9)	17.3 (490)	12	4	16	192
			23 (651.3)	12	5	20	240
	1950727 Sliding drawer rack	11.9 x 5.5 x 26.3 (30.2 x 14 x 66.5)	28.1 (793)	15	6	24	360
	920009 Adjustable side access rack	11.6 x 5.4 x 16.5 (29.5 x 13.7 x 41.9)	13 (368.1)	9	4	16	144
	920017 Adjustable side access rack	11.6 x 5.4 x 22 (29.5 x 13.7 x 55.9)	17.3 (490)	12	4	16	192
			23 (651.3)	12	5	20	240
Microplate Racks							
	1950640 Sliding drawer rack	11.9 x 5.5 x 16.6 (30.2 x 14 x 44.2)	13 (368.1)	20	4	16	320
	1950641 Sliding drawer rack	11.9 x 5.5 x 22 (30.2 x 14 x 55.9)	17.3 (490)	30	4	16	480
			23 (651.3)	30	5	20	600
	1950731 Sliding drawer rack	11.9 x 5.5 x 26.3 (30.2 x 14 x 66.8)	28 (793)	35	6	24	840
	1950651 Side access rack	11.9 x 5.3 x 14.7 (30.2 x 13.5 x 37.3)	13 (368.1)	56	4	16	896
	1950652 Side access rack	11.9 x 5.3 x 22 (30.2 x 13.5 x 55.9)	17.3 (490)	84	4	16	1344
			23 (651.3)	84	5	20	1680
	820036 Side access rack	12 x 5.5 x 22 (30.5 x 14 x 55.9)	17.3 (490)	36	4	16	576
			23 (651.3)	36	5	20	720
TSD Specialty Racks							
	830012 Multi-drawer rack	11.5 x 11 x 11 (29.2 x 28 x 28)	Racks Per Shelf/ Freezer	1/4	2/8	4/16	
	830030 8 compartment container	5.3 x 7 x 18 (13.5 x 17.8 x 45.7)	Racks Per Shelf/ Freezer	6/24			
	830032 10 compartment container	5.3 x 7 x 22.6 (13.5 x 18 x 57.4)	Plates Per Rack		6/8	24/32	

Thermo Scientific TSD Series Ultra-Low Temperature Upright Freezers

Racking Shelf Kits Includes Sliding Drawer Racks and 2" Boxes with 100 count cell dividers

Model No.	Freezer Volume cu. ft. (liters)	Racks Included	Boxes Included
RSK13SD4	13.0 (368)	4	60
RSK17SD4	17.3 (490)	4	80
RSK23SD4	23.0 (651)	5	100
RSK28CFSD4	28.0 (793)	6	150

Sliding Drawer Inserts (pack of 5)

Model No.	For	Freezer Volume cu ft. (L)	Slots
1950666P5	Microplates	13.0 (368)	4
1950669P5	Microplates	17.3 (490)	6
1950671P5	Microplates	23.0 (651)	7
1950668P5	Boxes	13.0 (368)	3
1950670P5	Boxes	17.3 (490)	4
1950672P5	Boxes	23.0 (651)	5

Fiberboard Cryo Boxes - 2" (5.1 cm)

Model No.	Quantity	Dividers
5" x 5" (12.7 cm x 12.7 cm) water repellent cardboard		
5954	12	None
820002	1	81
820109	1	100

Fiberboard Cryo Boxes - 3" (7.6 cm)

Model No.	Quantity	Dividers
5" x 5" (12.7 cm x 12.7 cm) water repellent cardboard		
5956	12	None
820003	1	81

2" Fiberboard Cryoboxes

Fiberboard Grid Dividers

Model No.	Dimensions	Quantity	Holds Vial Size/Quantity
5958	10 x 10, 0.49" cell	12	12mm (100)
820100	10 x 10, 0.49" cell	1	12mm (100)
5958	9 x 9, 0.54" cell	12	13mm (81)
820081	9 x 9, 0.54" cell	1	13mm (81)
5960	8 x 8, 0.61" cell	12	14mm (64)
820064	8 x 8, 0.61" cell	1	14mm (64)
5959	7 x 7, 0.7" cell	12	16mm (49)
820049	7 x 7, 0.7" cell	1	16mm (49)
820025	5 x 5, 0.98" cell	1	25 vials
820016	4 x 4, 1.22" cell	1	16 vials

3" Fiberboard Cryoboxes

Thermo Scientific TSC Series Ultra-Low Temperature Chest Freezers

Thermo Scientific™ TSC Series chest freezers feature all the sample protection features of our TSD upright freezers. Choose a -86ºC or -40ºC cabinet in four convenient sizes as well as a full range of racking solutions.

- Heavy gauge, cold-rolled steel exterior construction with a powder coat paint finish for a uniform exterior that resists chipping and rust.

- 5" (127mm) foamed-in-place polyurethane insulation reduces power consumption, maintains temperature setpoint and combined with sub lids and door gasket, provides longer holding time in the event of a power failure.

- Advanced refrigeration system improves temperature control and increases reserve capacity, resulting in a more stable temperature sample.

- Stainless steel interior.

- 1" (2.5cm) access ports allow for the use of independent probes or instrumentation.

Optional CO_2 or LN_2 safety back-up system
for additional protection in the event of a power or mechanical failure.

Message Center
12-character alphanumeric LED displays setpoints, system status and alarm messages.
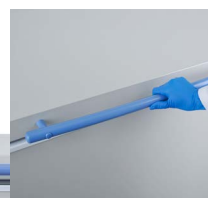
Microprocessor control
Centralized information center, including microprocessor control and monitoring system ensures that all controls and displays are easy to reach and read. Knee level on the 3 cu. ft. (85L) models.
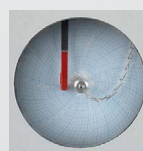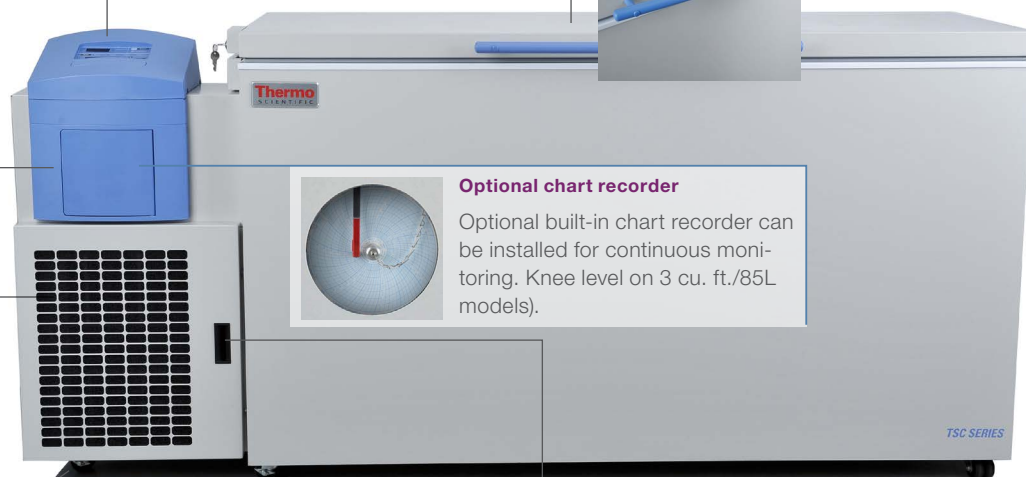
Access code
to ensure setpoint accuracy.

Easy-to-remove washable filter
Provides protection from dust on condenser, reducing the risk of refrigeration malfunction or risk to samples.

Single-hand operation
Easy-to-use, ergonomic, lockable door handle.

Optional chart recorder
Optional built-in chart recorder can be installed for continuous monitoring. Knee level on 3 cu. ft./85L models).

RS-485 and 4-20 milliamp analog outputs
For independent monitoring devices and recorders.

Simplified installation
With our new easy-roll 2" (5cm) locking casters.

Easy-to-remove washable filter
Provides protection from dust on condenser, reducing the risk of refrigeration malfunction or risk to samples.

Thermo Scientific TSC Series Ultra-Low Temperature Chest Freezers

Thermo Scientific TSC Series -86°C Chest Freezers

Model No.	Capacity		Electrical		Interior Dimensions	Exterior Dimensions	Shipping Weight
	cu. ft. (liters)	2" Cryobox	Voltage/Frequency	Amps/Breaker (Plug)	H x W x D in. (cm)	H x W x D in. (cm)	lbs. (kg)
TSC390A	3.0 (85)	63	115V / 60 Hz	10.5/20 (NEMA 5-20)	16.5 x 18.5 x 18.5 (41.9 x 47.0 x 47.0)	43.8 x 28.5 x 29.9 (111.3 x 72.4 x 75.9)	432 (196)
TSC390V			230V / 50 Hz	5.4/15 (European)			
TSC1390A	12.7 (360)	252	115V / 60 Hz	16/20 (NEMA 5-20)	28.0 x 42.5 x 18.5 (71.1 x 108.0 x 47.0)	40.5 x 72.0 x 33.4 (102.9 x 182.9 x 84.8)	716 (325)
TSC1390D			208-230V / 60 Hz	12/15 (NEMA 6-15)			
TSC1390V			230V / 50 Hz	12/15 (European)			
TSC1790A	17.0 (481)	348	115V / 60 Hz	16/20 (NEMA 5-20)	28.0 x 58.8 x 18.5 (71.1 x 149.4 x 47.0)	40.5 x 87.6 x 33.8 (102.9 x 222.5 x 85.9)	821 (372)
TSC1790D			208-230V / 60 Hz	12/15 (NEMA 6-15)			
TSC1790V			230V / 50 Hz	12/15 (European)			
TSC2090A	20.0 (566)	396	115V / 60 Hz	16/20 (NEMA 5-20)	28.0 x 66.5 x 18.5 (71.1 x 168.9 x 47.0)	40.5 x 96.0 x 33.4 (102.9 x 243.8 x 84.8)	833 (378)
TSC2090D			208-230V / 60 Hz	12/15 (NEMA 6-15)			
TSC2090V			230V / 50 Hz	12/15 (European)			

Thermo Scientific TSC Series -40°C Chest Freezers

Model No.	Capacity		Electrical		Interior Dimensions	Exterior Dimensions	Shipping Weight
	cu. ft. (liters)	2" Cryobox	Voltage/Frequency	Amps/Breaker (Plug)	H x W x D in. (cm)	H x W x D in. (cm)	lbs. (kg)
TSC350A	3.0 (85)	63	115V / 60 Hz	5/15 (NEMA 5-20)	16.5 x 18.5 x 18.5 (41.9 x 47.0 x 47.0)	43.8 x 28.5 x 29.9 (111.3 x 72.4 x 75.9)	395 (179)
TSC350V			230V / 50 Hz	3/15 (European)			
TSC1350A	12.7 (360)	252	115V / 60 Hz	6.5/15 (NEMA 5-20)	28.0 x 42.5 x 18.5 (71.1 x 108.0 x 47.0)	40.5 x 72.0 x 33.4 (102.9 x 182.9 x 84.8)	659 (299)
TSC1350D			208-230V / 60 Hz	6.5/15 (NEMA 6-15)			
TSC1350V			230V / 50 Hz	6.5/15 (European)			
TSC1750A	17.0 (481)	348	115V / 60 Hz	6.5/15 (NEMA 5-20)	28.0 x 58.8 x 18.5 (71.1 x 149.4 x 47.0)	40.5 x 87.6 x 33.8 (102.9 x 222.5 x 85.9)	764 (347)
TSC1750D			208-230V / 60 Hz	6.5/15 (NEMA 6-15)			
TSC1750V			230V / 50 Hz	6.5/15 (European)			
TSC2050A	20.0 (566)	396	115V / 60 Hz	6.5/15 (NEMA 5-20)	28.0 x 66.5 x 18.5 (71.1 x 168.9 x 47.0)	40.5 x 96.0 x 33.4 (102.9 x 243.8 x84.8)	776 (352)
TSC2050D			208-230V / 60 Hz	6.5/15 (NEMA 6-15)			
TSC2050V			230V / 50 Hz	6.5/15 (European)			

Monitoring and Remote Options

Model No.	Voltage	Description
5612-1A	120V / 60 Hz	**Remote Alarm with Audible Signal** Extend the freezer's on-board alarms systems to remote locations in the facility.
5612-3V	230 V / 50Hz	
400047	120V / 60 Hz	**Sensaphone Telephone Dialing System** Monitors up to four channels; Dials up to four numbers (not CE). Dedicated phone line is required
400182*	220V / 50Hz	
400134	120V / 60 Hz	**Sensaphone Telephone Dialing System** Monitors up to eight channels; Dials up to eight numbers (not CE). Dedicated phone line is required
400183	220V / 50Hz	
400048	120V / 60 Hz	**Temperature / Power Monitor** External digital and audible/visual alarms monitor temperature and power supply of the freezer. Includes temperature probe
400049	220V / 50Hz	

*Not for sale in the EU.

Thermo Scientific TSC Series Ultra-Low Temperature Chest Freezers

Options (Field-installed must be installed by a qualified professional)

Model No.	Installation	Description
1960447	Factory Installed	LN_2 Backup System Maintains temperature down to -80°C with liquid nitrogen.
1960448	Field Installed	
1960445	Factory Installed	CO_2 Backup System Maintains temperature down to -70°C with CO_2
1960446	Field Installed	
201241	Factory Installed	Chart Recorder 6" (150mm), seven day ink recorder, to -150°C includes 50 chart papers
201240	Field Installed	
398213	RS-232, (0-1V)	Data Outputs (Factory Installed Only)
398214	RS-485, (0-1V)	
398215	RS-485, (0-5V)	
195967	Factory Installed	Water-Cooled Condenser Option

Accessories

Model No.	Description
195947	Replacement Air Filter for 3 cu. ft. (84.9L) Chest Freezers (quantity of 5)
195948	Replacement Air Filter for Other Chest Freezers (quantity of 5)
17020	Ink Chart Paper (quantity of 50)
400159	Replacement Back-Up Battery
245231	Red Felt Tip Chart Pen
245232	Blue Felt Tip Chart Pen
4000401	LN_2 Transfer Hose Flexible 6' metal hose. 0.5" diameter, 45° flare with swivel ends
950316	Wall Clamp CO_2 cylinder holder for securing tank to the wall in accordance with OSHA guidelines
991505	High-Pressure Liquid CO_2 Hose Kink-resistant, stainless steel lined, double-braided sheath. 316 stainless steel NPTF fitting. Max. working pressure 25,000 psig. 6' long
4425	Cryo Gloves Medium
4426	Cryo Gloves Large

The water-cooled condenser option is available on our freezers.

Your work environment stays cooler because 50% less heat is emitted to your surroundings (i.e. less BTU rejection). A water regulating valve automatically controls the water flow needed to maintain the compressor discharge pressure. Cooler compressor temperatures enhance compressor stability and reliability.

Like our standard freezers, those with the water-cooled condenser options are also UL listed to Canadian and United States requirements and bear the CE mark.

The following specifications apply to tower and city water sources:*

Water Pressure and Temperature
Maximum Pressure: 150 psig
Maximum Temperature: 29.4ºC

Connections
Inlet: 0.5" compression
Outlet: 0.5" compression

Water Flow Rate Required (per minute)
Tower Water: 3.0 gal. (11.4L)
City Water: 1.0 gal. (3.8L)

Drain Required?
Tower Water: No (return line)
City Water: Yes

Installation requires a qualified technician and should include proper adjustment of the regulating valve which controls the discharge pressure.

Visit **thermofisher.com/smart-vue** for wireless monitoring options

Thermo Scientific TSC Series Ultra-Low Temperature Chest Freezers

Thermo Scientific TSC Chest Freezer Racks

	Model No.	Description Dimensions H x W x D in. (cm)	Freezer Vol. cu. ft. (liters)	Boxes/Rack (Plates)	Racks/Freezer (Plates)	Boxes/Freezer (Plates)
	398184	2" Box Rack with locking rod 5.5 x 15.2 x 5.5 (14 x 38.6 x 14)	3.0 (85)	7	9	63
	398186	2" Box Rack with locking rod 5.5 x 5.6 x 26.5 (14 x 14.2 x 67.3)	12.7 (360)	12	21	252
			17 (481)	12	29	348
			20 (566)	12	33	396
	398185	3" Box Rack 5.5 x 5.5 x 16 (14 x 14 x 40.6)	3 (85)	5	9	45
	398187	3" Box Rack 9.4 x 5.5 x 26.5 (14 x 14 x 67.3)	12.7 (360)	8	21	168
			17 (481)	8	29	232
			20 (566)	8	33	264
	398188	27 Position Microplate Rack 5.3 x 3.5 x 25.8 (13.5 x 8.9 x 65.5)	12.7 (360)	(27)	(33)	(891)
			17 (481)	(27)	(48)	(1,296)
			20 (566)	(27)	(51)	(1,377)
	114048	Wire Basket with Rollers* 11.8 x 16.5 x 12.3 (29.9 x 41.9 x 31.2)	12.7 (360)	N/A	5	N/A
			20 (566)	N/A	9	N/A
	189001	Wire Basket Rail Set 11.8 x 16.5 x 12.3 (29.9 x 41.9 x 31.2)	12.7 (360)	N/A	N/A	N/A
	189000	Wire Basket Rail Set 11.8 x 16.5 x 12.3 (29.9 x 41.9 x 31.2)	12.7 (566)	N/A	N/A	N/A

* Basket rail set is required

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Thermo Scientific™ Smart-Vue™ Wireless Monitoring Solutions

With so much at stake, obsessive is smart

The Smart-Vue wireless monitoring solution safeguards the integrity of precious samples by continuously monitoring critical parameters of laboratory equipment and securely logging data to give you peace-of-mind.

This wireless solution features audit trail traceability to assist with conformance to 21 CFR part 11, and other regulatory requirements. For more information, visit **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_2 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.

Find out more at **thermofisher.com/cold**

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