Thermo Scientific Revco Ultra-Low Temperature Freezers

Optimum storage capacity with
ultimate protection and energy savings

Thermo Fisher
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Thermo Scientific Revco DxF Ultra-Low Temperature Freezers

Uncompromised sample protection

Thermo Scientific™ Revco™ DxF Upright Freezers are designed for daily sample protection and dependability. Choose DxF Series Freezers for applications requiring a -10°C to -40°C range. All models feature refrigeration system, rugged construction and easy-to-use microprocessor controls.

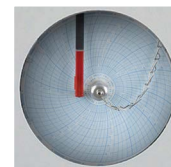# Thermo Scientific Revco DxF Ultra-Low Temperature Upright Freezers

Uncompromised sample protection

Thermo Scientific Revco DxF Series Ultra-Low Temperature Upright Freezers are designed for daily sample protection and dependability. All models feature state-of-the-art refrigeration, sturdy construction and easy-to-use microprocessor control.

- 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.

- Optional CO_2 or LN_2 safety back-upsystem for additional protection in theevent of a power or mechanical failure.

- Optional, built-in chart recorder or data logger for continuous monitoring.

- Sturdy, solid, stainless steel shelving to support a full product load.

- Vacuum relief port permits easy access after door openings.

- Ergonomic, lockable door handle.

- Power Management System with low voltage surge protection and buck/boost.

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; knee level on our 3 cu. ft. (85L) models.
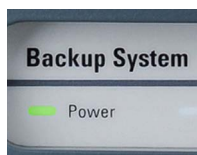
One 1" (25mm) access ports

Optional CO2 or LN2 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.

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

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

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Revco DxF Ultra-Low Temperature Upright Freezers

Specifications and ordering

Revco DxF Series Upright Freezers
(Temperature Range: -10°C to -40°C)

Model No. (Painted Interior)	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)
DxF24040A			115V / 60 Hz	16/20 (NEMA 5-20)				
DxF24040D	13.0 (368)	240	208-230V / 60 Hz	12/15 (NEMA 6-15)	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)
DxF24040V			230V / 50 Hz	12/16 (European)				
DxF32040A			115V / 60 Hz	16/20 (NEMA 5-20)				
DxF32040D	17.3 (490)	320	208-230V / 60 Hz	12/15 (NEMA 6-15)	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)
DxF32040V			230V / 50 Hz	12/16 (European)				
DxF40040A			115V / 60 Hz	16/20 (NEMA 5-20)				
DxF40040D	23.0 (651)	400	208-230V / 60 Hz	12/15 (NEMA 6-15)	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)
DxF40040V			230V / 50 Hz	12/16 (European)				

Monitoring and Remote Alarms

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	

*Not for sale in the EU.

Sensaphone™ Telephone Dialing System

Temperature/Power Monitor

Revco DxF Ultra-Low Temperature Freezers

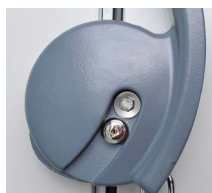**Options (Field-installed must be installed by a qualified professional)**

Model No.	Installation	Description
1960535	Factory Installed	**LN₂ Backup System**
1960536	Field Installed	Maintains temperature down to -80°C with liquid nitrogen
1960533	Factory Installed	**CO₂ Backup System**
1960534	Field Installed	Maintains temperature down to -70°C with CO₂
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 CO₂ 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** CO₂ cylinder holder for securing tank to the wall in accordance with OSHA guidelines
4000401	**LN₂ 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)
224195	**Shelf Kit for 240 box capacity freezer** (one shelf and clips)
224196	**Shelf Kit for 320 box capacity freezer** (one shelf and clips)
224197	**Shelf Kit for 400 box capacity freezer** (one shelf and clips)
224198	**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)**

Alternate Cord and Plug Options

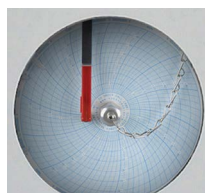| Model No.	Plug Description
430266	115V/20A Twist Lock Plug (NEMA L5-20P)
430267	230V/15A Twist Lock Plug (NEMA L6-15P)

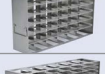Unique Key Lock

Factory Installed Back-up Systems

Cryo Gloves

Factory-Installed Chart Recorder

Revco DxF 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
	398332 Sliding drawer rack	5.5 x 9.4 x 16.6 (14 x 23.9 x 42.2)	13 (368.1)	12	4	20	240
	398331 Sliding drawer rack	5.5 x 9.4 x 22 (14 x 23.9 x 55.9)	17.3 (490)	16	4	20	320
			23 (651.3)	16	5	25	400
	1950728 Sliding drawer rack	5.5 x 9.4 x 26.3 (14 x 23.9 x 66.5)	28.1 (793)	20	6	30	600
	398324 Adjustable side access rack	5.4 x 9.4 x 16.5 (13.7 x 23.9 x 41.9)	13 (368.1)	12	4	20	240
	398326 Adjustable side access rack	5.4 x 9.4 x 22.1 (13.7 x 23.9 x 62.5))	17.3 (490)	16	4	20	320
			23 (651.3)	16	5	25	400
3" Box Racks							
	920099 Sliding drawer rack	5.5 x 9.5 x 17.4 (14 x 24 x 44.2)	13 (368.1)	9	4	20	180
	398330 Sliding drawer rack	5.5 x 9.5 x 22 (14 x 24 x 55.9)	17.3 (490)	12	4	20	240
			23 (651.3)	12	5	25	300
	1950729 Sliding drawer rack	5.5 x 9.5 x 26.3 (14 x 24 x 66.8)	28.1 (793)	15	6	30	450
	398325 Adjustable side access rack	5.4 x 9.4 x 16.1 (13.7 x 23.9 x 41.9)	13 (368.1)	9	4	20	180
	398327 Adjustable side access rack	5.4 x 9.4 x 22.1 (13.7 x 23.9 x 56.1)	17.3 (490)	12	4	20	240
			23 (651.3)	12	5	25	300
Microplate Racks							
	1950637 Sliding drawer rack	9.5 x 5.5 x 16.6 (24 x 14 x 44.2)	13 (368.1)	16	4	20	320
	1950638 Sliding drawer rack	9.5 x 5.5 x 22 (24 x 14 x 55.9)	17.3 (490)	24	4	20	480
			23 (651.3)	24	5	25	600
	1950730 Sliding drawer rack	9.4 x 5.5 x 26.3 (24 x 14 x 66.8)	28 (793)	28	6	30	840
	398334 Side access rack	9.4 x 5.3 x 14.7 (23.9 x 13.5 x 37.3)	13 (368.1)	44	4	20	880
	398333 Side access rack	9.4 x 5.3 x 22 (23.9 x 13.5 x 55.9)	17.3 (490)	66	4	20	1320
			23 (651.3)	66	5	25	1650
			28 (793)	66	6	30	1980
	398335 Side access rack	9.4 x 5.3 x 22 (23.9 x 13.5 x 55.9)	17.3 (490)	30	36	20	600
			23 (651.3)	30	5	25	750
			28 (793)	30	20/0	30	900

Revco DxF Upright Freezer Flexible Side Access Microplate Racks

Model No. Description	Dimensions H x W x D in. (cm)	Storage	13CF 368L	17.3CF 490L	23CF 951L	28CF 793L
398321 Microplate/ Deepwell Rack with Locking Rods	9.4 x 5.3 x 18.4 (23.9 x 14 x 46.7)	Plates w/lids	70			
		Plates w/o lids	85			
		Deepwell Plates	25			
		Racks per Shelf	4			
		Racks per Freezer	20			
398323 Microplate/ Deepwell Rack with Locking Rods	9.4 x 5.5 x 22 (23.9 x 14 x 55.9)	Plates w/lids		84	84	
		Plates w/o lids		96	96	
		Deepwell Plates		30	30	
		Racks per Shelf		4	5	
		Racks per Freezer		20	25	

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
RSK13SD5	13.0 (368)	4	48
RSK17SD5	17.3 (490)	4	64
RSK23SD5	23.0 (651)	5	80
RSK28CFSD5	28.0 (793)	6	120

2" Fiberboard Cryoboxes

3" Fiberboard Cryoboxes

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

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

Revco CxF Ultra-Low Temperature Chest Freezers

Thermo Scientific™ Revco™ CxF Chest Freezers feature all the sample protection features of our DxF freezers in four convenient sizes. Choose a -40°C or a -86°C option, as well as a full range of racking solutions for maximum sample storage.

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.

Optional built-in chart recorder
or data logger for continuous monitoring.

Ergonomic, lockable door handle

Convenient interior covers
let you minimize sample exposure to outside conditions.

Inner sub-lids protect bulk samples
from ambient exposure during single sample retrievals.

Stainless steel interior

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.

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

Heavy duty casters
with locking tandem wheel design for smooth mobility

Revco CxF Ultra-Low Temperature Chest Freezers (-50°C to -86°C)

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)
ULT390-10-A	3.0 (84.9)	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)
ULT390-10-V			230V / 50 Hz	5.4/15 (European)			
ULT1390-10-A	12.7 (359.6)	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)
ULT1390-10-D			208-230V / 60 Hz	12/15 (NEMA 6-15)			
ULT1390-10-V			230V / 50 Hz	12/15 (European)			
ULT1790-10-A	17.0 (481.4)	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)
ULT1790-10-D			208-230V / 60 Hz	12/15 (NEMA 6-15)			
ULT1790-10-V			230V / 50 Hz	12/15 (European)			
ULT2090-10-A	20.0 (566.3)	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)
ULT2090-10-D			208-230V / 60 Hz	12/15 (NEMA 6-15)			
ULT2090-10-V			230V / 50 Hz	12/15 (European)			

Revco CxF Ultra-Low Temperature Chest Freezers (-10°C to -40°C)

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)
ULT350-10-A	3.0 (84.9)	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)
ULT350-10-V			230V / 50 Hz	3/15 (European)			
ULT1350-10-A	12.7 (359.6)	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)
ULT1350-10-D			208-230V / 60 Hz	6.5/15 (NEMA 6-15)			
ULT1350-10-V			230V / 50 Hz	6.5/15 (European)			
ULT1750-10-A	17.0 (481.4)	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)
ULT1750-10-D			208-230V / 60 Hz	6.5/15 (NEMA 6-15)			
ULT1750-10-V			230V / 50 Hz	6.5/15 (European)			
ULT2050-10-A	20.0 (566.3)	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)
ULT2050-10-D			208-230V / 60 Hz	6.5/15 (NEMA 6-15)			
ULT2050-10-V			230V / 50 Hz	6.5/15 (European)			

Monitoring and Remote Alarms

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.

Revco CxF Ultra-Low Temperature Chest Freezers

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

Model No.		Installation	Description
ULT 390/ ULT 350	Other Models		
	1960535	Factory Installed	**LN$_2$ Backup System** Maintains temperature down to -80°C with liquid nitrogen.
	1960536	Field Installed	
	1960533	Factory Installed	**CO$_2$ Backup System** Maintains temperature down to -70°C with CO$_2$
	1960534	Field Installed	
398224	398226	Factory Installed	**Chart Recorder** 6" (150mm), seven day ink recorder, to -150°C includes 50 chart papers
398223	398225	Field Installed	
	398213	RS-232, (0-1V)	
	398214	RS-485, (0-1V)	**Data Outputs** (Factory Installed Only)
	398215	RS-485, (0-5V)	
	195967	Factory Installed	**Water-Cooled Condenser Option**

Accessories

Model No.		Description
ULT 390/ ULT 350	Other Models	
195947	195948	**Replacement Air Filter** (quantity of 5)
	17020	**Ink Chart Paper** (quantity of 50)
	180000	**Inkless 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 shealth. 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 -86ºC 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.

*Actual requirements may vary due to specific water pressure conditions.

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

2" Fiberboard Cryoboxes

3" Fiberboard Cryoboxes

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

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

Revco DxF Upright 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 (85)	7	9	63
	398186	2" Box Rack with locking rod 5.5 x 26.5 x 5.6 (14 x 67.3 x 14.2)	12.7 (360)	12	21	252
			17 (481)	12	29	348
			20 (566)	12	33	396
	398185	3" Box Rack 5.5 x 16 x 5.5 (14 x 40.6 x 14)	3 (85)	5	9	45
	398187	3" Box Rack 5.5 x 26.5 x 5.5 (14 x 67.3 x 14)	12.7 (360)	8	21	168
			17 (481)	8	29	232
			20 (566)	8	33	264
	398188	27 Position Microplate Rack 5.3 x 25.8 x 3.5 (13.5 x 65.5 x 8.9)	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 12.3 x 16.5 (30 x 31.2 x 42)	12.7 (360)	N/A	5	N/A
			20 (566)	N/A	9	N/A
	189001	Wire Basket Rail Set	12.7 (360)	N/A	N/A	N/A
	189000	Wire Basket Rail Set	12.7 (566)	N/A	N/A	N/A

Keep track of your samples with Nunc Cryobank

Thermo Scientific™ Nunc™ Cryobank™ systems are a natural companion to our Revco ultra-low temperature freezers. Both have been designed to maximize sample protection as well as sample space. The 2D barcode on the vials is easily read by instruments, offering safe sample identification and reading of entire racks in one process. In addition, Cryobank systems provide the highest density cryo vial available. Nunc tubes conveniently click into their storage compartments with ease and can be handled without the risk of an accidental drop – yet one more reason why your samples deserve the outstanding quality and protection of Nunc storage products.

For more information, visit
thermofisher.com/densestorage

thermo scientific

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**

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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