

# Thermo Scientific Revco Ultra-Low Temperature Freezers

Optimum storage capacity with  
ultimate protection and energy savings

# 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<sub>2</sub> or LN<sub>2</sub> 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.



## **Easy-to-remove washable filter**

Provides protection from dust on condenser, reducing the risk of refrigeration malfunction or risk to samples.

## **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.



**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 x 84.8)	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	<b>Remote Alarm with Audible Signal</b> Extend the freezer's on-board alarms systems to remote locations in the facility.
5612-3V	230 V / 50Hz	
400047	120V / 60 Hz	<b>Sensaphone Telephone Dialing System</b> Monitors up to four channels; Dials up to four numbers (not CE). Dedicated phone line is required
400182*	220V / 50Hz	
400134	120V / 60 Hz	<b>Sensaphone Telephone Dialing System</b> Monitors up to eight channels; Dials up to eight numbers (not CE). Dedicated phone line is required
400183	220V / 50Hz	
400048	120V / 60 Hz	<b>Temperature / Power Monitor</b> 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 qualified professional)

Model No.		Installation	Description
ULT 390/ ULT 350	Other Models		
1960535		Factory Installed	<b>LN<sub>2</sub> Backup System</b> Maintains temperature down to -80°C with liquid nitrogen.
1960536		Field Installed	
1960533		Factory Installed	<b>CO<sub>2</sub> Backup System</b> Maintains temperature down to -70°C with CO <sub>2</sub>
1960534		Field Installed	
398224	398226	Factory Installed	<b>Chart Recorder</b> 6" (150mm), seven day ink recorder, to -150°C includes 50 chart papers
398223	398225	Field Installed	
	398213	RS-232, (0-1V)	<b>Data Outputs</b> (Factory Installed Only)
	398214	RS-485, (0-1V)	
	398215	RS-485, (0-5V)	
	195967	Factory Installed	<b>Water-Cooled Condenser Option</b>

The water-cooled condenser option is available on our -86°C 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: 29.4°C

### 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.

## Accessories

Model No.		Description
ULT 390/ ULT 350	Other Models	
195947	195948	<b>Replacement Air Filter</b> (quantity of 5)
	17020	<b>Ink Chart Paper</b> (quantity of 50)
	180000	<b>Inkless Chart Paper</b> (quantity of 50)
	400159	<b>Replacement Back-Up Battery</b>
	245231	<b>Red Felt Tip Chart Pen</b>
	245232	<b>Blue Felt Tip Chart Pen</b>
	4000401	<b>LN<sub>2</sub> Transfer Hose</b> Flexible 6' metal hose, 0.5" diameter, 45° flare with swivel ends
	950316	<b>Wall Clamp</b> CO <sub>2</sub> cylinder holder for securing tank to the wall in accordance with OSHA guidelines
	991505	<b>High-Pressure Liquid CO<sub>2</sub> Hose</b> Kink-resistant, stainless steel lined, double-braided sheath, 316 stainless steel NPTF fitting, Max. working pressure 25,000 psig, 6' long
	4425	<b>Cryo Gloves</b> Medium
	4426	<b>Cryo Gloves</b> Large

Visit [thermofisher.com/smart-vue](https://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	<b>2" Box Rack with locking rod</b> 5,5 x 15,2 x 5,5 (14 x 38,6 x 14)	3 (85)	7	9	63
	398186	<b>2" Box Rack with locking rod</b> 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	<b>3" Box Rack</b> 5,5 x 16 x 5,5 (14 x 40,6 x 14)	3 (85)	5	9	45
	398187	<b>3" Box Rack</b> 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	<b>27 Position Microplate Rack</b> 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	<b>Wire Basket with Rollers*</b> 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	<b>Wire Basket Rail Set</b>	12,7 (360)	N/A	N/A	N/A
	189000	<b>Wire Basket Rail Set</b>	12,7 (566)	N/A	N/A	N/A