




Thermo Scientific Revco PLUS Ultra-Low Temperature Chest Freezers

Maximizing Critical Sample Protection and Storage



Safeguarding your precious samples with advanced technology and exceptional quality

Thermo Scientific Revco PLUS ultra-low temperature freezers combine the highest reliability and superior performance with cost-effective operation and innovative features. Our Revco® PLUS chest freezers feature an advanced technology platform, refrigeration system, microprocessor controls and high-quality construction.

Features and Benefits

Page

3

Microprocessor Control System

Page

4

Freezer Specifications

Page

5

Racks and Accessories

Page

6

Innovative Features and Rewarding Benefits

Easy to use microprocessor control programs temperature/ alarm set points and on-board diagnostics

PLUS Power Management System with low voltage surge protection and buck/boost capabilities

Ergonomically designed handle minimizes the effort required during freezer openings and closings

State-of-the-art, robust refrigeration system improves temperature control for more consistent temperature cycling and recovery, resulting in a more stable temperature for safer sample protection

Easy to clean, stainless steel interior



Optional seven day, 6" (152 mm) circular chart recorder for validation and regulatory requirements. Check with your sales representative for details.

Convenient, hinged air filter grill allows easy access for inspection, cleaning and/or changing

Robust cabinet design constructed of high-strength steel with a corrosion-resistant coating for long-life durability

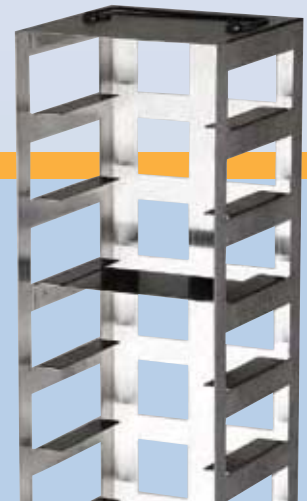
Heavy duty casters with locking tandem wheel design for easy, smooth mobility



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



Optional stainless steel inventory racks with fiberboard boxes and dividers for sample protection



Easy to use microprocessor control

Mode: Select run, settings, calibrate or configuration mode

Temperature: Displays actual and sample probe (optional) temperatures

Audible/Visual Alarm

Low Battery and Hot Condenser Indicators



Message Center: 12-character, alphanumeric LED displays setpoints, "SYSTEM OK" during operation and other messages

Settings: Set cabinet temperature, setpoint, overtemp alarm, undertemp alarm and back-up system temperature (optional)

Calibrate: calibrate control, probe temperature and sample probe temperature (optional)

Configuration: Configure access code, serial output, temperature alarm test and system battery test

Additional Features:

RS-232 and 4-20 milliamp analog outputs are standard. The 4-20 milliamp output is a common analog output used to provide temperature data to independent monitoring devices and recorders.

Lifeguard Enviro-Scan microprocessor control/monitoring system for easy setup, programming and monitoring.

- Highly visible display, intuitive controls and simplified programming for easy setup, programming and to check and monitor parameters and conditions
- Personal access code to ensure setpoint security
- Numerous audible/visual alarms (power failure, high/low temp, door ajar, condenser hot, probe failure, etc.) as well as high/low alarm test offer peace of mind monitoring for sample protection





12.7 cu. ft. model



3 cu. ft. model






Ultra-Low Temperature Chest Freezers Temperature Range -50° C to -86° C

Model Number	Capacity cu. ft. (L)	Plug/Receptacle	Electrical	Amps/Breaker	Interior Dimensions H x W x D inches (mm)	Exterior Dimensions H x W x D inches (mm)	Shipping Weight lbs (kg)
ULT390-10-A	3.0 (84.9)	NEMA 5-20	120V 60 Hz 1Ø	10.5/20	16.5 x 18.5 x 18.5 (419 x 470 x 470)	43.8 x 28.5 x 28.8 (1113 x 724 x 732)	432 (196)
ULT390-10-V		European	230V 50 Hz 1Ø	5.4/15			
ULT390-10-W		British	230V 50 Hz 1Ø	5.4/15			
ULT1390-10-A	12.7 (359.6)	NEMA 5-20	120V 60 Hz 1Ø	16/20	28.0 x 42.5 x 18.5 (711 x 1080 x 470)	40.5 x 72.0 x 28.8 (1029 x 1829 x 732)	716 (324.8)
ULT1390-10-D		NEMA 6-15	208/230V 60 Hz 1Ø	12/15			
ULT1390-10-V		European	230V 50 Hz 1Ø	12/15			
ULT1390-10-W	British	230V 50 Hz 1Ø	12/15				
ULT1790-10-A	17.0 (481.4)	NEMA 5-20	120V 60 Hz 1Ø	16/20	28.0 x 58.8 x 18.5 (711 x 1494 x 470)	40.5 x 87.6 x 28.8 (1029 x 2225 x 732)	821 (372.4)
ULT1790-10-D		NEMA 6-15	208/230V 60 Hz 1Ø	12/15			
ULT1790-10-V		European	230V 50 Hz 1Ø	12/15			
ULT1790-10-W	British	230V 50 Hz 1Ø	12/15				
ULT2090-10-A	20.0 (566.3)	NEMA 5-20	120V 60 Hz 1Ø	16/20	28.0 x 66.5 x 18.5 (711 x 1689 x 470)	40.5 x 96.0 x 28.8 (1029 x 2438 x 732)	833 (377.8)
ULT2090-10-D		NEMA 6-15	208/230V 60 Hz 1Ø	12/15			
ULT2090-10-V		European	230V 50 Hz 1Ø	12/15			
ULT2090-10-W	British	230V 50 Hz 1Ø	12/15				

Ultra-Low Temperature Chest Freezers Temperature Range -10° C to -40° C

Model Number	Capacity cu. ft. (L)	Plug/Receptacle	Electrical	Amps/Breaker	Interior Dimensions H x W x D inches (mm)	Exterior Dimensions H x W x D inches (mm)	Shipping Weight lbs (kg)
ULT350-10-A	3.0 (84.9)	NEMA 5-15	120V 60 Hz 1Ø	5/15	16.5 x 18.5 x 18.5 (419 x 470 x 470)	43.8 x 28.5 x 28.8 (1113 x 724 x 732)	395 (179.5)
ULT350-10-V		European	230V 50 Hz 1Ø	3/15			
ULT350-10-W		British	230V 50 Hz 1Ø	3/15			
ULT1350-10-A	12.7 (359.6)	NEMA 5-20	120V 60 Hz 1Ø	10/20	28.0 x 42.5 x 18.5 (711 x 1080 x 470)	40.5 x 72.0 x 28.8 (1029 x 1829 x 732)	659 (299.5)
ULT1350-10-D		NEMA 6-15	208/230V 60 Hz 1Ø	6.5/15			
ULT1350-10-V		European	230V 50 Hz 1Ø	6.5/15			
ULT1350-10-W	British	230V 50 Hz 1Ø	6.5/15				
ULT1750-10-A	17.0 (481.4)	NEMA 5-20	120V 60 Hz 1Ø	10/20	28.0 x 58.8 x 18.5 (711 x 1494 x 470)	40.5 x 87.6 x 28.8 (1029 x 2225 x 732)	764 (347.3)
ULT1750-10-D		NEMA 6-15	208/230V 60 Hz 1Ø	6.5/15			
ULT1750-10-V		European	230V 50 Hz 1Ø	6.5/15			
ULT1750-10-W	British	230V 50 Hz 1Ø	6.5/15				
ULT2050-10-A	20.0 (566.3)	NEMA 5-20	120V 60 Hz 1Ø	10/20	28.0 x 66.5 x 18.5 (711 x 1689 x 470)	40.5 x 96.0 x 28.8 (1029 x 2438 x 732)	776 (352.7)
ULT2050-10-D		NEMA 6-15	208/230V 60 Hz 1Ø	6.5/15			
ULT2050-10-V		European	230V 50 Hz 1Ø	6.5/15			
ULT2050-10-W	British	230V 50 Hz 1Ø	6.5/15				

Thermo Scientific Inventory Storage Racks for Chest Freezers

	Cat No.	Description W x D x H inches (mm)	Freezer Vol. cu. ft. (L)	2" Boxes	3" Boxes	Racks/Freezer
Racks with Handles						
	398184	2" box rack 5.5 x 16 x 5.5 (140 x 406 x 140)	3 (85)	7	-	9
	398185	2" box rack 5.5 x 16 x 5.5 (140 x 406 x 140)	3 (85)	-	5	9
	398186	2" box rack 5.5 x 26.5 x 5.5 (140 x 673 x 140)	12.7 (360) 17 (481) 20 (566)	12 12 12	- - -	21 29 33
	398187	3" box rack 5.5 x 26.5 x 5.5 (140 x 673 x 140)	12.7 (360) 17 (481) 20 (566)	- - -	8 8 8	21 29 33
Microplate Rack with Handle						
	398188	27 position 5.3 x 25.8 x 3.6 (135 x 655 x 91)	12.7 (360) 17 (481) 20 (566)	- - -	- - -	33 48 51

Chest Freezers Accessories

Cat. No.	Description:
Seven Day, 6" Temperature Chart Recorders (-100°C to +38°C)	
398219	Customer installed 6 inch, 7 day chart recorder for ULT390-10 with felt pen and box of recorder paper*
398220	Factory installed 6 inch, 7 day chart recorder for ULT390-10 with felt pen and box of recorder paper
398221	Customer installed 6 inch, 7 day chart recorder for 12.7,17, 20 cu. ft. models with felt pen and box of recorder paper*
398222	Factory installed 6 inch, 7 day chart recorder for 12.7,17, 20 cu. ft. models with felt pen and box of recorder paper
398191	Chart paper, 50 charts per box
398192	Red felt-tip replacement pen for chart recorder
398193	Blue felt-tip replacement pen for chart recorder
Safety Back-Up Systems	
398196	Deluxe CO ₂ back-up, factory pre-installed
398197	Deluxe CO ₂ back-up, customer installed*
398198	LN ₂ back-up, factory pre-installed
398199	LN ₂ back-up, customer installed*
Sensaphone® Telephone Dialing System (not available for sales requiring CE)	
398203	Monitors up to four inputs (channels) and dials up to four numbers 120V/60 Hz
398204	Monitors up to eight inputs (channels) and dials up to eight numbers 120V/60 Hz
398205	Monitors up to four inputs (channels) and dials up to four numbers 220V 50/60 Hz
398206	Monitors up to eight inputs (channels) and dials up to eight numbers 220V 50/60 Hz
Digital Temperature, Power Monitors and Alarms	
	The Digital Temperature/Power Monitor, which can be mounted to your equipment, includes one temperature probe encased in a stainless steel sheath with a 20 ft. (6.1m) lead wire. Monitoring range is -135°C to 99°C (-211°F to 210.2°F). Indicator lights exist for power, normal operation and alarm. Audible alarm also sounds if a power failure or alarm condition occurs.
398207	120V/60 Hz
398208	230V/50 Hz
398209	Audible/visual temp/power monitor 120/60 Hz
398211	120/60 Hz audible signal 1.5"
398212	230/50 Hz audible signal 1.5"
Data Outputs	
398213	RS-232, 0-1V option
398214	RS-485, 0-1V option
398215	RS-485, 0-5V option
Systems Replacement Air Filters	
398216	Replacement air filter for 3 cu. ft. (84.9L) chests
398217	Replacement air filter for 12.7, 17 and 20 cu. ft. (359.6L, 481.4, and 566.3L) chests
Access Port	
398218	Access port, 1.3" inside diameter, factory installed

Speak with your sales representative about additional accessories to maximize sample protection for your chest freezer

* Must be installed by qualified professional



Sensaphone Telephone Dialing System



Thermo Scientific Nalgene and Nunc

Thermo Scientific Nalgene and Nunc cryogenic storage give you everything you need to safely store precious specimens, organize freezer space and simplify sample retrieval. Nalgene® and Nunc™ combine to provide one-stop shopping for the widest variety and highest quality of externally and internally threaded cryovials, storage boxes, lab top coolers and “Mr. Frosty” controlled-rate freezing containers. For more information, visit www.nalgene.com or www.nuncbrand.com

© 2009 Thermo Fisher Scientific Inc. All rights reserved. Sensaphone is a registered trademark of Phonetics, Inc. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

North America: USA/Canada +1 866 984 3766 (866-9-THERMO)

www.thermo.com/cold

Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, France +33 2 2803 2180, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 02 95059 434-254-375, Netherlands +31 76 571 4440, Nordic countries +358 9 329 100, Russia/CIS +7 (812) 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203

Asia: China +86 21 6865 4588 or +86 10 8419 3588, India toll free 1800 22 8374, India +91 22 6716 2200, Japan +81 45 453 9220,

Other Asian countries +852 2885 4613, **Countries not listed:** +49 6184 90 6940 or +33 2 2803 2000

BRCSREVCST 0809

Thermo
SCIENTIFIC