



Thermo Scientific RevcoPLUS 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.

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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

ULTIMA PLUS

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

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 Ibs (kg
ULT390-10-A		NEMA 5-20	120V 60 Hz 1Ø	10.5/20	16.5 x 18.5 x 18.5	43.8 x 28.5 x 28.8	432 (196)
ULT390-10-V	3.0 (84.9)	European	230V 50 Hz 1Ø	5.4/15			432 (190)
ULT390-10-W		British	230V 50 Hz 1Ø	5.4/15	(419 x 470 x 470)	(1113 x 724 x 732)	
ULT1390-10-A		NEMA 5-20	120V 60 Hz 1Ø	16/20			
ULT1390-10-D	10.7 (250.6)	NEMA 6-15	208/230V 60 Hz 1Ø	12/15	28.0 x 42.5 x 18.5	40.5 x 72.0 x 28.8	716 (324.8)
ULT1390-10-V	12.7 (359.6)	European	230V 50 Hz 1Ø	12/15	(711 x 1080 x 470)	(1029 x 1829 x 732)	
ULT1390-10-W		British	230V 50 Hz 1Ø	12/15			
ULT1790-10-A		NEMA 5-20	120V 60 Hz 1Ø	16/20			
ULT1790-10-D	17.0 (401.4)	NEMA 6-15	208/230V 60 Hz 1Ø	12/15	28.0 x 58.8 x 18.5	40.5 x 87.6 x 28.8	821 (372.4)
ULT1790-10-V	17.0 (481.4)	European	230V 50 Hz 1Ø	12/15	(711 x 1494 x 470)	(1029 x 2225 x 732)	
ULT1790-10-W		British	230V 50 Hz 1Ø	12/15			
ULT2090-10-A		NEMA 5-20	120V 60 Hz 1Ø	16/20			
ULT2090-10-D	20.0 (ECC.2)	NEMA 6-15	208/230V 60 Hz 1Ø	12/15	28.0 x 66.5 x 18.5	40.5 x 96.0 x 28.8	833 (377.8)
ULT2090-10-V	20.0 (566.3)	European	230V 50 Hz 1Ø	12/15	(711 x 1689 x 470)	(1029 x 2438 x 732)	
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 bs (kg)
ULT350-10-A		NEMA 5-15	120V 60 Hz 1Ø	5/15	16.5 x 18.5 x 18.5	43.8 x 28.5 x 28.8	395 (179.5)
ULT350-10-V	3.0 (84.9)	European	230V 50 Hz 1Ø	3/15	(419 x 470 x 470)	43.8 x 28.3 x 28.8 (1113 x 724 x 732)	333 (173.3)
ULT350-10-W		British	230V 50 Hz 1Ø	3/15	(419 X 4/0 X 4/0)	(1113 x 724 x 732)	
ULT1350-10-A		NEMA 5-20	120V 60 Hz 1Ø	10/20			
ULT1350-10-D	10 7 (050 6)	NEMA 6-15	208/230V 60 Hz 1Ø	6.5/15	28.0 x 42.5 x 18.5	40.5 x 72.0 x 28.8	659 (299.5)
ULT1350-10-V	12.7 (359.6)	European	230V 50 Hz 1Ø	6.5/15	(711 x 1080 x 470)	(1029 x 1829 x 732)	
ULT1350-10-W		British	230V 50 Hz 1Ø	6.5/15			
ULT1750-10-A		NEMA 5-20	120V 60 Hz 1Ø	10/20			
ULT1750-10-D	17.0 (481.4)	NEMA 6-15	208/230V 60 Hz 1Ø	6.5/15	28.0 x 58.8 x 18.5	40.5 x 87.6 x 28.8	764 (347.3)
ULT1750-10-V		European	230V 50 Hz 1Ø	6.5/15	(711 x 1494 x 470)	(1029 x 2225 x 732)	
ULT1750-10-W		British	230V 50 Hz 1Ø	6.5/15			
ULT2050-10-A		NEMA 5-20	120V 60 Hz 1Ø	10/20			
ULT2050-10-D	20.0 (E66.2)	NEMA 6-15	208/230V 60 Hz 1Ø	6.5/15	28.0 x 66.5 x 18.5	40.5 x 96.0 x 28.8	776 (352.7)
ULT2050-10-V	20.0 (566.3)	European	230V 50 Hz 1Ø	6.5/15	(711 x 1689 x 470)	(1029 x 2438 x 732)	
ULT2050-10-W		British	230V 50 Hz 1Ø	6.5/15	1		

		ory Storage nacks i					
	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	15-725
	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	
	398188	Microplate Rack with Hand		-		22	
	330100	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	

Thermo Scientific Inventory Storage Racks for Chest Freezers

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 CO2 back-up, factory pre-installed	
398197	Deluxe CO ₂ back-up, customer installed*	
398198	LN2 back-up, factory pre-installed	
398199	LN2 back-up, customer installed*	
000100		
	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 eighwwt 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 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	
200210	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	
	Replacement air filter for 12.7, 17 and 20 cu. ft. (359.6L, 481.4, and 566.3L) chests Access Port	

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

* Must be installed by qualified professional







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

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