

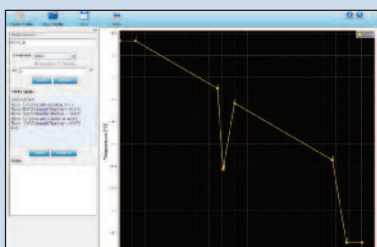
Thermo Scientific CryoMed Controlled-Rate Freezers

Dependable sample preparation



New PC Software!

- Backwards and forwards compatible from Windows® XP to Windows® 7 and 8
- Optimized profile design and operation
- Improved customer operation over previous generation
- Updated and enhanced profile creation
- Customizable fields for improved sample ID
- Can communicate with existing installed units
- Auto-scaling run graphs
- Improved review functionality
- Available in a package that includes software and RS-232-to-USB connector for controlled-rate freezer



Thermo Scientific™ CryoMed™ controlled-rate freezers feature an integrated control system (consisting of freezing chamber, microprocessor control and printer – all in one benchtop unit), allowing multiple freezing profiles to be tailored for specific protocols. Freezer functionality is enhanced by a MS Windows®-based controlled-rate freezing interface software (included) that connects to your PC and external printer.

- Can be operated directly from the unit's built-in microprocessor or remotely through the PC interface
- Backlit LCD provides at-a-glance operational status
- Chamber and sample temperatures are monitored by Type T thermocouples, which eliminate lag time and provide "real time" responsiveness
- Four-digit access code for added security
- Six standard pre-set profiles and ten user defined profiles are standard

- Standard alarms provide for open thermocouple, heater malfunction, high/low temperature limit, temperature tracking, power failure and completion of run
- Controlled-rate freezer includes a Java® based PC software as a standard feature, compatible with current Windows® operating systems
- Dual solenoid valves increase LN₂ injection volume for precise temperature control and accelerated freezing
- Specifically designed air handling system and liquid nitrogen injection ring work in tandem for precise temperature control and uniformity
- Over-temperature protection for heating provides a safe working environment
- Excellent construction featuring Type 304 stainless steel exterior, foamed-in-place polyurethane insulation, Teflon® heat break and bulb-style gaskets for tight door seal

Thermo Scientific CryoMed Controlled-Rate Freezers (Temperature Range: -50°C to -180°C)

Model No.	Capacity cu. ft. (L)	Access Type	Electrical	Plug	Interior Dimensions W x D x H in. (cm)	Exterior Dimensions W x D x H in. (cm)	Shipping Weight lbs. (kg)	LN2 and Utility Connection
7450	0.6 (17)	Front Loading	120V, 60Hz	NEMA 5-15	7 x 12 x 13 (17.8 x 30.5 x 33)	31.7 x 21.2 x 20.4 (80.5 x 53.8 x 51.8)	200 (90.7)	22 psi, low-pressure supply tank required. Models are supplied with one 0.5", 45° flare stainless steel flexible transfer hose.
7451			220V, 50Hz	CEE 7/7				
7472			100V, 60Hz	NEMA 5-15				
7452	1.2 (34)	Front Loading	120V, 60Hz	NEMA 5-15	13 x 12 x 13 (33 x 30.5 x 33)	37.7 x 21.2 x 20.4 (95.8 x 53.8 x 51.8)	215 (97.5)	
7453			220V, 50Hz	CEE 7/7				
7473			100V, 60Hz	NEMA 5-15				
7454	1.7 (48.1)	Front Loading	120V, 60Hz	NEMA 5-15	19 x 12 x 13 (48.3 x 30.5 x 33)	43.7 x 21.2 x 20.4 (111 x 53.8 x 51.8)	235 (106.6)	
7455			220V, 50Hz	CEE 7/7				
7474			100V, 60Hz	NEMA 5-15				

New Windows® 7-8 Compatible Software for Previous-Generation CryoMed Users*

Model No.	Description
4000407	Controlled-rate freezer companion PC software, Version 2.0, Compatible with Windows XP, 7 and 8
4000414	Upgrade kit consisting of PC software and an RS-232 to USB adapter cord

Ask Your Sales Representative About Thermo Scientific CryoMed Accessories



Learn More About Sample Preparation and Cryopreservation!

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* Software does not have to be purchased for Thermo Scientific CryoMed controlled-rate freezers purchased after May 26, 2014.

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