Forma Scientific 7450

CryoMed Controlled Rate Freezing System

$4495.00

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Qty Available: 2

Used and in Excellent Condition

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Product Specifications

Thermo Scientific CryoMed Controlled-Rate Freezers

Thermo Scientific CryoMed Freezers provide the ultimate in controlled-rate freezing flexibility.

These units are complete, one-piece freezing systems. Integrated control panel and thermal printer eliminate assembly and connection of electrical components. Multiple freezing profiles can be tailored to specific protocols. Enhance freezer functionality easily by adding a PC, installing MS Windows*-based Controlled-Rate Freezing PC Interface software (included), and connecting an external inkjet printer.

With six standard preset and 10 user-defined (20 steps each) freezing profiles that can be modified for custom protocols.

Easy Programming and Monitoring

- Chamber and sample temperatures and operation status simultaneously display on backlit LCD
- Chamber temperature monitored by fixed-mount Type T thermocouple
- Sample temperature monitored by Type T thermocouple with flexible cable (included)
- Pre-Cool step automatically begins temperature ramp when chamber and sample temperatures are equilibrated within 1°C
- Audible indicators alert operator when hold time has elapsed
- Continual operation if power outage lasts less than 10 seconds; audible/visual alarm for outages lasting longer than 10 seconds
- Modifiable access code for added security

LN_2 Freezing System Components

- Intuitive control panel and integrated thermal printer
- Dual solenoid valves increase LN_2 injection volume for precise temperature control and accelerated freezing for optimum cell viability
- Specially designed air handling system and liquid nitrogen ring work in tandem for precise temperature control and uniformity
- Overtemperature protection on heating element

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Product Specifications and Ordering Information

Construction

- Type 304 stainless-steel construction
- Exterior powder-coat finish
- Foamed in-place polyurethane insulation
- Bulb-style gaskets ensure tight door seal; PTFE heat-breaks prevent door from freezing closed
- Front- and top-access models are designed for human IVF and easy "seeding"

Includes: 6' (1.8m) flexible stainless-steel transfer hose, 0.5" 35° flare, thermal paper, 25- to 9-pin serial interface cable/adapter, and 10' (3m) RS-232 cable

Warranty: One year, parts

Compliance: UL listed to U.S. and Canadian requirements; CE marked

Notes: All CryoMed freezers come with Controlled-Rate Freezing PC Interface software for connection to IBM*-compatible computer and external printer—download profiles and capture graphs, profile, and sample information. Computer and external printer sold separately; contact your Customer Service Representative.

Cat. No.	Capacity	Interior D x W x H	Exterior L x W x H	Net/Shipping Weight	Electrical Reqts. (Plug Type)
Front Access					
7450	17L	33 × 17.8 × 30.5cm (13 × 7 × 12")	51.8 × 80.5 × 51.8cm (20.4 × 31.7 × 20.4")	63.5kg/90.7kg (140 lb./200 lb.)	120V 60Hz 12A (NEMA 5-15P)
7451	17L	33 × 17.8 × 30.5cm (13 × 7 × 12")	51.8 × 80.5 × 53.8cm (20.4 × 31.7 × 21.2")	63.5kg/90.7kg (140 lb.	230V 50/60Hz (CEE 7/7)
7452	34L	33 × 33 × 30.5cm (13 × 13 × 12")	51.8 × 95.8 × 53.8cm (20.4 × 37.7 × 21.2")	72.6kg/97.5kg (160 lb. /215 lb.)	120V 60Hz 12A (NEMA 5-15P)
7453	34L	33 × 33 × 30.5cm (13 × 13 × 12")	51.8 × 95.8 × 53.8cm (20.4 × 37.7 × 21.2")	72.6kg/97.5kg (160 lb. /215 lb.)	230V 50/60Hz (CEE 7/7)
7454	48.1L	33 × 48.3 × 30.5cm (13 × 19 × 12")	51.8 × 111 × 53.8cm (20.4 × 43.7 × 21.2 ")	81.6kg/106.6kg (180 lb.	120V 60Hz 12A (NEMA 5-15P)
7455	48.1L	33 × 48.3 × 30.5cm (13 × 19 × 12")	51.8 × 111 × 53.8cm (20.4 × 43.7 × 21.2 ")	81.6kg/106.6kg (180 lb.	230V 50/60Hz (CEE 7/7)
Top and Front Access					
7456	17L	33 × 17.8 × 30.5cm (13 × 7 × 12")	78.7 × 80.5 × 57.2cm (20.4 × 31.7 × 21.2")	63.5kg/90.7kg (140 lb. /200 lb.)	120V 60Hz 12A (NEMA 5-15P)
7457	17L	33 × 17.8 × 30.5cm (13 × 7 × 12")	78.7 × 80.5 × 53.8cm (20.4 × 31.7 × 21.2")	63.5kg/90.7kg (140 lb. /200 lb.)	230V 50/60Hz (CEE 7/7)
7458	34L	33 × 33 × 30.5cm (13 × 13 × 12")	51.8 × 95.8 × 53.8cm (20.4 × 37.7 × 21.2")	72.6kg/97.5kg (160 lb. /215 lb.)	120V 60Hz 12A (NEMA 5-15P)
7459	34L	33 × 33 × 30.5cm (13 × 13 × 12")	51.8 × 95.8 × 53.8cm (20.4 × 37.7 × 21.2")	76.2kg/97.5kg (160 lb./215 lb.)	230V 50/60Hz (CEE 7/7)
Front Access					
7472	17L	33 × 17.8 × 30.5cm (13 × 7 × 12")	78.7 × 80.5 × 53.8cm (20.4 × 31.7 × 21.2")	63.5kg/90.7kg (140 lb. /200 lb.)	100V 50/60Hz (NEMA 5-15P)
7473	34L	33 × 33 × 30.5cm (13 × 13 × 12")	51.8 × 95.8 × 53.8cm (20.4 × 37.7 × 21.2")	72.6kg/97.5kg (160 lb. /215 lb.)	100V 50/60Hz (NEMA 5-15P)
7474	48.1L	33 × 48.3 × 30.5cm (13 × 19 × 12")	51.8 × 111 × 53.8cm (20.4 × 43.7 × 21.2 ")	81.6kg/106.6kg (180 lb. /235 lb.)	100V 50/60Hz (NEMA 5-15P)
Top and Front Access					
7475	17L	33 × 17.8 × 30.5cm (13 × 7 × 12")	51.8 × 80.5 × 53.8cm (20.4 × 31.7 × 21.2 ")	63.5kg/90.7kg (140 lb./200 lb.)	100V 50/60Hz (NEMA 5-15P)
7476	34L	33 × 33 × 30.5cm (13 × 13 × 12")	51.8 × 95.8 × 53.8cm (20.4 × 37.7 × 21.2")	72.6kg/97.5kg (160 lb. /215 lb.)	100V 50/60Hz (NEMA 5-15P)

Specifications	
Temperature Range	–180° to +50°C
Cabinet Material	Stainless steel with power-coat paint finish

Ask your Customer Service Representative about Thermo Scientific racks and accessories for CryoMed Freezers.

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