



Thermo Scientific Precision Incubators

Performance, Quality and Value for Your Incubation Needs

Global Leader in Quality and Reliability

For more than 50 years, Thermo Scientific products have been trusted by the world's leading biotechnology, pharmaceutical, academic, industrial and clinical laboratories. Our solutions deliver the performance, quality and reliability required by researchers and clinicians worldwide.



Thermo Scientific Precision Incubators



Our new Thermo Scientific Precision incubator series delivers excellent temperature uniformity, performance and value for a wide range of microbiological incubation applications – from everyday needs to demanding incubation and storage tasks.

Precision® High-Performance Incubators pg. 3-6

> Superior Temperature Uniformity

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> For Everyday Incubation Applications

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> Space-Saving Design for Basic Applications

Precision Refrigerated Incubators pg. 9-10

> For Various Applications at Temperatures Below and Above Ambient

APPLICATIONS	Precision High-Performance Incubators	Precision Standard Incubators	Precision Compact Incubators	Precision Refrigerated Incubators
Bacterial Research		•	•	•
Biochemical Oxygen Demand (BOD)				•
Chemical Storage	•	•		•
Chick Embryo Studies		•	•	
Coliform Determinations	•	•	•	•
Crystallization Studies	•	•		
Drying And Staining Procedures	•	•		•
Entomological Studies				•
Enzyme Digestion Studies	•	•		•
Hematological Testing	•	•	•	•
Microbiological Determinations	•	•	•	•
Paraffin Embedding	•	•		
Pharmaceutical Stability Testing	•			
Sample Storage	•			•
Tissue Culturing	•	•	•	•
Plant Growth Studies				•

Thermo Scientific Precision High-Performance Incubators

➤ Mechanical or Gravity Convection

Featuring advanced microprocessor controls, our Precision high-performance incubators are available with mechanical or gravity convection for your most important applications that require excellent temperature distribution or gentle sample incubation and handling between 5°C above ambient to 75°C.



Choice of Mechanical or Gravity Convection

- Mechanical convection provides uniform heating and precise temperature control. A blower circulates heated air in a horizontal airflow pattern for efficient heat distribution with tight temperature tolerances of up to $\pm 0.3^{\circ}\text{C}$
- Gravity convection offers safe incubation with reduced air changes, minimizing drying-out of samples while providing a stable environment

Advanced Microprocessor Controls

- Sophisticated microprocessor controls feature easy-to-view digital LED readout and reliable temperature control
- Fixed setpoints on control panel eliminate the need for tuning and off-set feature enables easy calibration
- Temperature is displayed on large, three-character screen and can be easily set from 5°C above ambient to 75°C in 0.1°C increments using touch-sensitive arrow keys

Built-In Safety

- Built-in safety back-up maintains control at 3°C above setpoint if primary heater control fails
- Visual alarm indicates when temperature exceeds 3°C setpoint
- Silicone gasket on outer door and 3" thick fiberglass insulation prevents heat loss and ensures excellent temperature uniformity
- Circuit breaker protects against power surges.

Simplicity and Flexibility

- Inner glass door permits viewing of samples without disturbing the chamber environment
- Internal electrical outlet allows operation of a shaker, stirrer or other lab apparatus

Durable and Robust

- Cabinet has durable, enamel-coated steel exterior. Interior chamber features easy-to-clean stainless steel
- Low-watt density heater elements are designed for long life and energy efficiency

Mechanical Convection Models

- Stackable, table-top units
- Outer door opens to 180° for unhindered access
- Double door unit and large capacity units also available
- Choice of 120V and 240V versions
- Internal electrical outlet in all models



High-Performance Mechanical Convection				Double Doors	Large Capacity
Chamber Volume	2.2 cu. ft./62 L	3.4 cu. ft./96 L	4.5 cu. ft. /127 L	11.2 cu. ft./317 L	30 cu. ft./850 L
Temperature Control	Microprocessor PID	Microprocessor PID	Microprocessor PID	Hydraulic Thermostat	Hydraulic Thermostat
Temperature Display	LED	LED	LED	LED	Thermometer
Temperature Range	ambient +5° to 75°C	ambient +5° to 75°C	ambient +5° to 75°C	ambient +5° to 65°C	ambient +5° to 70°C
Uniformity @37°C	±0.5°C	±0.5°C	±0.5°C	± 0.6°C	±0.5°C
Dimensions (W x H x D)					
Chamber	18 x 12.5 x 18 in. (46 x 32 x 46 cm)	18 x 19 x 18 in. (46 x 48 x 46 cm)	18 x 25.5 x 18 in. (46 x 65 x 46 cm)	37 x 25 x 21 in. (94 x 64 x 53 cm)	30 x 72 x 24.25 in. (72.2 x 182.9 x 61.6 cm)
Exterior	25 x 26 x 23.5 in. (64 x 66 x 60 cm)	25 x 33 x 23.5 in. (64 x 84 x 60 cm)	25 x 39 x 23.5 in. (64 x 99 x 60 cm)	39.8 x 34.5 x 25 in. (101 x 88 x 64 cm)	36 x 88.5 x 31.5 in. (91.4 x 224.5 x 74.3 cm)
Electrical Specs					
120 V (60Hz)	330 watts/8.3 amps	330 watts/8.3 amps	410 watts /8.9 amps	520 watts/4.3 amps	450 watts/12.1 amps
240 V (50/60Hz)	330 watts/6.6 amps	330 watts/6.6 amps	410 watts/7.0 amps	520 watts/2.2 amps	—
Shelves	1 supplied, 3 max	1 supplied, 6 max	2 supplied, 10 max	6 supplied, 36 max*	6 supplied, 30 max
Catalog Number					
120 V	PR205045M	PR205055M	PR205065M	PR205075M	3971, solid door 3973, glass door
240 V	PR205040M	PR205050M	PR205060M	PR205070M	

*18 shelves per door opening

Additional shelf kits for table top units: Catalog Number 13247S

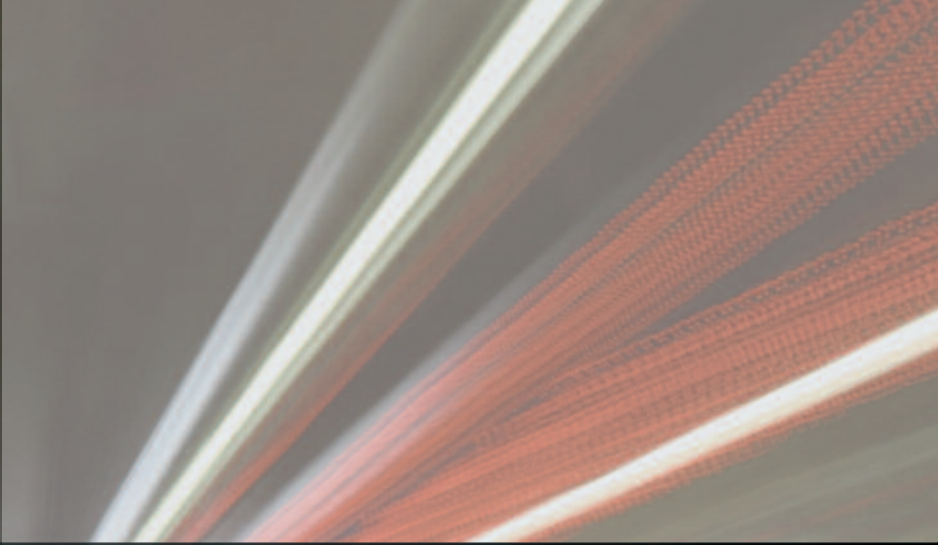
Additional shelf kits for double door units: Catalog Number AY2076X1

Additional shelf kits for large capacity units: Catalog Number 3166190

All 120V table top units are UL/cUL listed.

12 month warranty (parts and labor)





Gravity Convection Models

- Three stackable, table-top units
- Outer door opens to 180° for unhindered access
- Choice of 120 V and 240 V versions
- Electrical outlet in all models



Thermo Scientific Precision High-Performance Incubators (continued)

High-Performance Gravity Convection				Double-Door
Chamber Volume	2.5 cu. ft./71 L	3.75 cu. ft./106 L	5 cu. ft./142 L	11.2 cu. ft./317 L
Temperature Control	Microprocessor PID	Microprocessor PID	Microprocessor PID	Microprocessor PID
Temperature Display	LED	LED	LED	LED
Temperature Range	ambient +5° to 75°C	ambient +5° to 75°C	ambient +5° to 75°C	ambient +5° to 65°C
Uniformity @37°C	±0.7°C	±0.7°C	±0.7°C	±0.4°C
Sensitivity	±0.1°C	±0.1°C	±0.1°C	±0.2°C
Dimensions (W x H x D)				
Chamber	18 x 13.5 x 18 in. (46 x 34 x 46 cm)	18 x 20 x 18 in. (46 x 51 x 46 cm)	18 x 26.5 x 18 in. (46 x 67 x 46 cm)	37 x 25 x 21 in. (94 x 64 x 53 cm)
Exterior	25 x 26 x 23.5 in. (64 x 66 x 60 cm)	25 x 33 x 23.5 in. (64 x 84 x 60 cm)	25 x 39 x 23.5 in. (64 x 99 x 60 cm)	40 x 35 x 25 in. (101 x 88 x 64 cm)
Electrical Specs (50/60Hz)				
120 V (60Hz)	260 watts/2.2 amps	260 watts/2.2 amps	320 watts/2.7 amps	450 watts/3.8 amps
240 V (50/60Hz)	260 watts/1.1 amps	260 watts/1.1 amps	320 watts/1.4 amps	450 watts/1.9 amps
Shelves	1 supplied, 5 max	1 supplied, 8 max	2 supplied, 11 max	6 supplied, 36 max*
Catalog Number				
120 V	PR205045G	PR205055G	PR205065G	PR205075G
240 V	PR205040G	PR205050G	PR205060G	PR205070G

* 18 shelves per door opening

Additional shelf kits for table top units: Catalog Number 13247S
 Additional shelf kits for double door units: Catalog Number AY2076X1
 All table top units (120 V and 240 V) are UL/cUL listed.

12 month warranty (parts and labor)



Thermo Scientific Precision Standard Incubators

> Economy and Value

Our Precision standard incubators are ideal for everyday applications that require temperatures between 5°C above ambient to 65°C and feature gravity convection for uniform heat distribution and reduced air movement to protect samples from drying out.



Uniform Temperature Protects Samples

- Gravity convection permits heat to enter from all points on the wall and floor of incubator for uniform heat distribution and reduced air movement to prevent drying out
- Adjustable hydraulic thermostat ensures stable temperature throughout chamber
- Superior heat distribution eliminates hot spots and provides temperature uniformity of up to $\pm 1^\circ\text{C}$ at 37°C

Excellent Safety

- Radiant wall heaters outside chamber eliminate safety hazards of exposed heaters
- Environmentally friendly, mercury-free thermometer included
- Pilot light indicates when heaters are energized for safe operation

Durability and Easy Cleaning

- Corrosion-resistant aluminum chamber is easy to clean
- Powder-coated exterior steel construction ensures durability
- Shelves are perforated for optimized temperature transfer to samples and can easily be removed for thorough cleaning

Standard Incubators

Chamber Volume	1.3 cu. ft. /37 L	5.1 cu. ft. /144 L
Temperature Control	Hydraulic Thermostat	Hydraulic Thermostat
Temperature Display	Thermometer	Thermometer
Temperature Range	ambient +5° to 65°C	ambient +5° to 65°C
Uniformity @37°C	$\pm 1^\circ\text{C}$	$\pm 1.3^\circ\text{C}$
Dimensions (W x H x D)		
Chamber	13 x 13 x 13 in. (33 x 33 x 33 cm)	18 x 27 x 18 in. (46 x 69 x 46 cm)
Exterior	15.7 x 21 x 15 in. (40 x 53 x 38 cm)	21 x 33 x 21 in. (53 x 84 x 53 cm)
Electrical Specs		
120 V (60Hz)	200 watts/1.7 amps	400 watts/3.3 amps
240 V (50/60Hz)	200 watts/0.8 amps	400 watts/1.7 amps
Shelves	2 supplied, 5 max	2 supplied, 9 max
Catalog Numbers		
120 V	PR205125G	PR205165G
240 V	PR205120G	PR205160G

Two Chamber Sizes

- 1.3 cu. ft. (37L) includes two adjustable aluminum shelves
- 5.1 cu. ft. (144L) includes two adjustable aluminum shelves

(*Additional shelves are sold separately)

Additional shelf kits for the 1.3 cu. ft. models: Catalog Number 203-8Q

7 Additional shelf kits for the 5.1 cu. ft. models: Catalog Number 403-8Q

All 120V units are UL/cUL listed.

12 month warranty (parts and labor)

Thermo Scientific Precision Compact Incubators

Space-Saving Design

Featuring a space-savings footprint for maximizing workspace, our Precision compact incubators are ideal for small clinics and laboratories that require temperatures between 5°C above ambient to 40°C or 60°C for basic applications.

Space-Efficient Design

- Small footprint saves valuable bench space

Temperature Uniformity

- Easily adjustable bi-metallic thermostat controls and aluminum chamber ensure excellent temperature uniformity
- Rugged metal door with positive latch provides excellent seal for temperature stability
- 1" thick fiberglass insulation prevents heat loss (0.67 cu. ft. and 1.0 cu. ft. units only)

Safe Operation

- Shielded heating elements eliminate safety hazards caused by spills
- Pilot light indicates when heaters are energized for safe operation
- Environmentally, mercury-free thermometer included

Durability and Easy Cleaning

- Corrosion-resistant aluminum chamber is easy to clean
- Powder-coated paint and exterior steel construction ensure durability



Compact Incubators

Chamber Volume	0.67 cu. ft./19 L	1 cu. ft./28	1.32 cu. ft./37 L
Temperature Control	Bimetallic Thermostat	Bimetallic Thermostat	Bimetallic Thermostat
Temperature Display	Thermometer	Thermometer	Thermometer
Temperature Range	ambient +5° to 40°C	ambient +5° to 60°C	ambient +5° to 45°C
Uniformity @37°C	±1°C	±1°C	±3°C
Dimensions (W x H x D)			
Chamber	12 x 8 x 12 in. (30 x 20 x 30 cm)	12 x 12 x 12 in. (30 x 30 x 30 cm)	13.44 x 12.68 x 12.65 in. (35 x 32 x 35 cm)
Exterior	13.5 x 11.8 x 14.5 in. (34 x 30 x 37 cm)	13.5 x 15.7 x 13.9 in. (34 x 40 x 35 cm)	13.5 x 15.7 x 13.9 in. (37 x 40 x 35 cm)
Electrical Specs (50/60Hz)			
120 V	100 watts/0.8 amps	100 watts/0.8 amps	150 watts/1.3 amps
240 V	100 watts/0.4 amps	100 watts/0.4 amps	150 watts/0.6 amps
Shelves	1 supplied, 1 max	1 supplied, 1 max	2 supplied, 2 max
Catalog Numbers			
120 V	PR205215G	PR205225G	PR205235G
240 V	PR205210G	PR205220G	PR205230G

Three Convenient Sizes

- 0.67 cu. ft. (19L) includes thermometer and one fixed shelf
- 1 cu. ft. (28L) includes thermometer and one removable shelf
- 1.32 cu. ft. (37L) includes thermometer and two fixed shelves*

* Unit comes with plexiglass door for unobstructed viewing. For egg incubation, not for clinical use, microbiological or biochemical studies.

All 120V units are UL/cUL listed.
12 month warranty (parts and labor)

Thermo Scientific Precision Refrigerated Incubators

> Broad Temperature Range

Featuring microprocessor controls and forced air circulation, our Precision refrigerated incubators are ideal for applications that require temperatures ranging from -15°C to 60°C with excellent stability.



Efficient, Dependable Design

- Easy-to-clean, corrosion resistant construction
- Compressor relay conserves energy
- 2A outlet easily supports apparatus inside the unit

Excellent Temperature Uniformity

- Microprocessor control with easy-to-read display shows actual temperature within 0.1°C
- Push-button controls feature temperature set-point selection
- Forced air circulation delivers excellent temperature stability
- CFC-free, foamed polyurethane insulation prevents heat loss
- RTD temperature probe and protected setpoint mode prevent accidental temperature change
- Door key lock protects samples from unauthorized access

20 cu. ft. Model 815 Refrigerated Incubator:

- *Ideal for BOD applications and temperature settings at or below ambient*
- *Advanced microprocessor controlled with easy-to-use push buttons and set-points*
- *Connection for external chart recorder and RS-232 interface for data logging*
- *Holds up to 333 BOD bottles (300 ml)*

Refrigerated Incubators			Model 818/Plant Growth	Model 815
Chamber Volume	6.1 cu. ft./173 L	30.4 cu. ft./861 L	17.8 cu. ft./504 L	20 cu. ft./566 L
Temperature Control	Microprocessor Controlled	Microprocessor Controlled	Microprocessor Controlled	Microprocessor Controlled
Temperature Display	LED	LED	LED	LED
Temperature Range	-10°C to +60°C	-15 C to 50 C	-10°C to +50°C / +10°C to +50°C*	-10°C to +50°C
Uniformity @37°C	±1.0°C	±1.0°C	±1.5°C @ 20°C	±0.5°C
Sensitivity @37°C	±0.1°C	±0.1°C	±0.2°C	±0.1°C
Dimensions (W x H x D)				
Chamber	20.5 x 28 x 20.5 in. (52 x 53 x 70 cm)	32 x 65.6 x 25 in. (81 x 166 x 64 cm)	26.5 x 57 x 20 in. (67.3 x 144.8 x 50.8 cm)	26.5 x 57 x 20 in. (67.3 x 144.8 x 50.8 cm)
Exterior	24.5 x 24 x 34.5 in. (62 x 61 x 88 cm)	35 x 74 x 33 in. (89 x 188 x 84 cm)	32 x 75 x 29 in. (82 x 191 x 74 cm)	32 x 75 x 29 in. (82 x 191 x 74 cm)
Electrical Specs				
115 V	860 watts/9.5 amps	1600 watts/16 amps		
120 V			860 watts/7.5 amps	800 watts/ 7.0 amps
230 V	860 watts/5.8 amps	1600 watt/9 amps	860 watts/3.75 amps	800 watts/3.5 amps
Shelves	2 supplied, 4 max	4 supplied, 7 max	6 supplied, 6 max	6 supplied, 6 max
Catalog Number				
115 V	PR205745R	PR205795R	–	–
120 V	–	–	3759	3721
230 V	PR205740R	PR205790R	3758	3722

All 120V units are cCSAus listed.

* with illumination

12 month warranty (parts and labor)

**17.8 cu. ft. Model 818
Plant Growth Chamber:**

- Ideal for applications requiring night/day simulation, precise temperature control and uniformity over a broad temperature range
- Dual-lamp fluorescent lighting provides 300 foot candles for uniform illumination
- Programmable heating and lighting cycles: 7-day program with 2 light cycles per day





Available only in North America

www.thermo.com/hot

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