

Thermo Scientific Precision Incubators

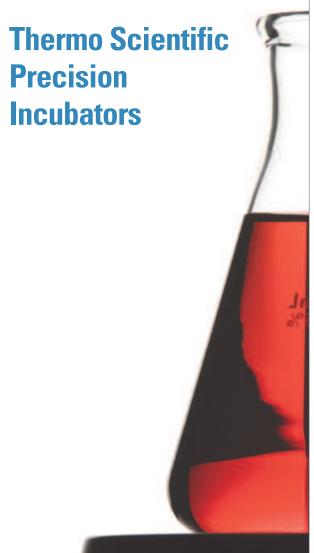
Performance, Quality and Value for Your Incubation Needs



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.





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.

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Precision Standard Incubators > For Everyday Incubation Applications	pg. 7
Precision Compact IncubatorsSpace-Saving Design for Basic Applications	pg. 8
Precision Refrigerated IncubatorsFor Various Applications at TemperaturesBelow and Above Ambient	pg. 9-10

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



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 ±0.3°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 offset 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 Convention 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





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	High-Performance Mechanical Convection Double Doors						
	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.	18 x 19 x 18 in.	18 x 25.5 x 18 in.	37 x 25 x 21 in.	30 x 72 x 24.25 in.	
		(46 x 32 x 46 cm)	(46 x 48 x 46 cm)	(46 x 65 x 46 cm)	(94 x 64 x 53 cm)	(72.2 x 182.9 x 61.6 cm)	
	Exterior	25 x 26 x 23.5 in.	25 x 33 x 23.5 in.	25 x 39 x 23.5 in.	39.8 x 34.5 x 25 in.	36 x 88.5 x 31.5 in.	
		(64 x 66 x 60 cm)	(64 x 84 x 60 cm)	(64 x 99 x 60 cm)	(101 x 88 x 64 cm)	(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		
	Shipping Weight	150 lb/68 kg	165 lb/74.5 kg	190 lb/86.2 kg	215 lb/98 kg	685 lb/310.7 kg	



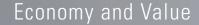


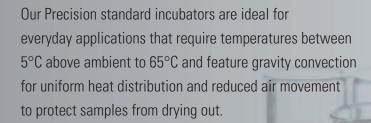
Thermo Scientific Precision High-Performance Incubators (continued)

High-Performance Gravity Con	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.	18 x 20 x 18 in.	18 x 26.5 x 18 in.	37 x 25 x 21 in.	
	(46 x 34 x 46 cm)	(46 x 51 x 46 cm)	(46 x 67 x 46 cm)	(94 x 64 x 53 cm)	
Exterior	25 x 26 x 23.5 in.	25 x 33 x 23.5 in.	25 x 39 x 23.5 in.	40 x 35 x 25 in.	
	(64 x 66 x 60 cm)	(64 x 84 x 60 cm)	(64 x 99 x 60 cm)	(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	
Shipping Weight	115 lb/ 52 kg	130 lb/59 kg	145 lb/66 kg	215 lb/98 kg	



Thermo Scientific Precision Standard Incubators







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 ±1°C at 37°C

Excellent Safety

- Radiant wall heaters outside chamber eliminate safety hazards of exposed heaters
- Environmentally friendly, mercuryfree 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	±1°C	±1.3°C
Dimensions (W x H x D)		
Chamber	13 x 13 x 13 in.	18 x 27 x 18 in.
	(33 x 33 x 33 cm)	(46 x 69 x 46 cm)
Exterior	15.7 x 21 x 15 in.	21 x 33 x 21 in.
	(40 x 53 x 38 cm)	(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
Shipping Weight	51 lb/23 kg	90 lb/41 kg

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 203-80

Additional shelf kits for the 5.1 cu. ft. models: Catalog Number 403-80

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.	12 x 12 x 12 in.	13.44 x 12.68 x 12.65 in.	
	(30 x 20 x 30 cm)	(30 x 30 x 30 cm)	(35 x 32 x 35 cm)	
Exterior	13.5 x 11.8 x 14.5 in.	13.5 x 15.7 x 13.9 in.	13.5 x 15.7 x 13.9 in.	
	(34 x 30 x 37 cm)	(34 x 40 x 35 cm)	(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	Catalog Numbers			
120 V	PR205215G	PR205225G	PR205235G	
240 V	PR205210G	PR205220G	PR205230G	
Shipping Weight	15 lb/7 kg	27 lb/12 kg	33 lb/15 kg	

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)



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Refrigerated Incubators			Model 815	Model 818/Plant Growth
Chamber Volume	6.1 cu. ft./173 L	30.4 cu. ft./861 L	20 cu. ft./566 L	17.8 cu. ft./504 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	±0.5°C	±1.5°C @ 20°C
Sensitivity @37°C	±0.1°C	±0.1°C	±0.1°C	±0.2°C
Dimensions (W x H x D)				
Chamber	20.5 x 28 x 20.5 in.	32 x 65.6 x 25 in.	26.5 x 57 x 20 in.	26.5 x 57 x 20 in.
	(52 x 53 x70 cm)	(81 x 166 x 64 cm)	(67.3 x144.8 x 50.8 cm)	(67.3 x 144.8 x 50.8 cm)
Exterior	24 x 34.5 x24.5 in	35 x 74 x 33 in.	32 x 75 x 29 in.	32 x 75 x 29 in.
	(61 x 88 x 62 cm)	(89 x 188 x 84 cm)	(82 x 191 x 74 cm)	(82 x 191 x 74 cm)
Electrical Specs				
115 V	860 watts/9.5 amps	1600 watts/16 amps	800 watts/ 7.0 amps	860 watts/7.5 amps
230 V	860 watts/5.8 amps	1600 watt/9 amps	800 watts/3.5 amps	860 watts/3.75 amps
Shelves	2 supplied, 4 max	4 supplied, 7 max	6 supplied, 6 max	6 supplied, 6 max
Catalog Number				
115 V	PR205745R	PR205795R	3721	3759
230 V	PR205740R	PR205790R	3722	3758
Shipping Weight	126 lb/57 kg	360 lb/163 kg	315 lb/142.9 kg	347 lb/157.4 kg

All 115V 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





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