

Technotes

Highlighting technical features for
Thermo Scientific™ Precision™ Refrigerated Incubators

Temperature Uniformity Features

- Microprocessor control with easy-to-read display shows temperature within 0.1°C
- Push-button controls for temperature setpoint selection
- Forced-air circulation designed to deliver outstanding temperature stability
- RTD temperature probe and protected setpoint mode designed to prevent accidental temperature change

Why choose a Precision refrigerated incubator for your lab?

Ideal for applications that require temperatures ranging from -10 °C to +60 °C



566L (20. cu.ft) Precision refrigerated incubator



173 L (6.1 cu. ft) Precision refrigerated incubator

Efficient Design Features

- Easy-to-clean, corrosion-resistant construction
- Compressor relay designed to conserve energy*
- Chlorofluorocarbon (CFC)-free, foamed polyurethane insulation designed to prevent heat loss

173L (6.1 cu. ft.) Unit

- Economical under-counter design
- High/low safety thermostat backups
- Three cooling modes simplify operation: high precision with cooling; high precision without cooling; and frost-free with variable cooling
- Four adjustable leveling feet for stable setup
- 2A outlet easily supports apparatus inside the unit

566L (20 cu. ft.) Unit

- Ideal for BOD (biochemical oxygen demand) applications and temperature settings at or below ambient
- Holds over 300 BOD bottles (300mL)
- Temperature setpoint selection with high/low temperature protection and simple calibration
- Energy efficient design, cooling can be switched off for temperatures above ambient - energy consumption as low as 0.1kW at 37 °C*
- Safety relay and alarm LED alert to over/undertemperature conditions
- RS-232 and recorder jacks for data logging
- Standard access port for feeding probes and apparatus cord in/out of unit (Ø 30mm/1.2in.)
- Lockable door designed to protect samples

Plant Growth Unit with Light - 504L (17.8 cu. ft.)

- Programmable temperature and light cycles: 7-day program with 2 light cycles per day
- Dual-lamp fluorescent lighting provides 342-foot candles (3678 Lux) for uniform illumination

Refrigerated Incubators—Warranty: 2 year (parts and labor)**; certifications: 115/120V units are cCSAus listed
Plant Growth Model—Warranty: 1 year (parts and labor)**; certifications: 120 V unit cCSAus listed

*Based on internal testing.

**Subject to terms of manufacturer's standard limited warranty, available at www.thermoscientific.com.

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Thermo Scientific Precision Refrigerated Incubators



504L (17.8 cu. ft.)
Precision plant growth model

Application Information

Various models designed to provide stable conditions for the following applications:

- BOD determination
- Sample storage - below and above ambient temperature
- Bacterial research
- Mycology studies
- Fish or insect breeding
- Seed germination
- Plant growth

Specifications							
Cat. No.	Capacity	Shelves	Interior Dimensions (D x W x H)	Exterior Dimensions (D x W x H)	Uniformity @37 °C/20 °C	Temp. Range	Electrical
BOD models							
PR205745R	173L (6.1 cu. ft.)	2 supplied/4 max	520 x 520 x 700mm (20.5 x 20.5 x 28in.)	622 x 610 x 876mm (24.5 x 24 x 34.5in.)	± 0.6/1.0 °C*	-10° to +60 °C	115V 60Hz (9.5A), NEMA 5-15 plug
PR205740R	173L (6.1 cu. ft.)	2 supplied/4 max	520 x 520 x 700mm (20.5 x 20.5 x 28in.)	622 x 610 x 876mm (24.5 x 24 x 34.5in.)	± 0.6/1.0 °C*	-10° to +60 °C	230V 50Hz (5.8A), NEMA 6-15P plug
PR205740RCN	173L (6.1 cu. ft.)	2 supplied/4 max	520 x 520 x 700mm (20.5 x 20.5 x 28in.)	622 x 610 x 876mm (24.5 x 24 x 34.5in.)	± 0.6/1.0 °C*	-10° to +60 °C	230V 50Hz (5.8A), China plug
PR505755R	566L (20.0 cu. ft.)	4 supplied/6 max	508 x 673 x 1448mm (20 x 26.5 x 57in.)	787 x 864 x 1956mm (31 x 34 x 77in.)	± 0.5/0.9 °C**	-10° to +50 °C	120V, 60Hz (6.2A), NEMA 5-15P plug
PR505750R	566L (20.0 cu. ft.)	4 supplied/6 max	508 x 673 x 1448mm (20 x 26.5 x 57in.)	787 x 864 x 1956mm (31 x 34 x 77in.)	± 0.5/0.9 °C**	-10° to +50 °C	230V, 50/60Hz (3.1A), NEMA 6-15P plug
PR505750RCN	566L (20.0 cu. ft.)	4 supplied/6 max	508 x 673 x 1448mm (20 x 26.5 x 57in.)	787 x 864 x 1956mm (31 x 34 x 77in.)	± 0.5/0.9 °C**	-10° to +50 °C	230V, 50/60Hz (3.1A), China plug
Plant growth models with light at 20 °C							
PR505755L	504L (17.8 cu. ft.)	4 supplied/6 max	508 x 673 x 1448mm (20 x 26.5 x 57in.)	787 x 864 x 1956mm (31 x 34 x 77in.)	± 1.8 °C*** (0.9 °C w/o light)	-10° to +50 °C +10° to +50 °C***	120V, 60Hz (6.8A), NEMA 5-15P plug
PR505750L	504L (17.8 cu. ft.)	4 supplied/6 max	508 x 673 x 1448mm (20 x 26.5 x 57in.)	787 x 864 x 1956mm (31 x 34 x 77in.)	± 1.8 °C*** (0.9 °C w/o light)	-10° to +50 °C +10° to +50 °C***	230V, 60Hz (3.4A), NEMA 6-15P plug
* Performance values are based on 10 point measurements ** Performance values are based on 27 point measurements (DIN 12880) *** Lights switched on							
Additional shelving options							
Cat. No.	Description	Dimensions					
107384	52 x 44cm (20.5 x 17.5in)	Shelf for 173L units					
GT3185275	64 x 42cm (25.3 x 16.6in)	Shelf for 566L / 504L unit					

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