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Corning® PC-200/210/220 Series Analog Hot Plates and Stirrers

CORNING

Instruction Manual

Catalog Numbers:

Hot Plates: Model PC-200

6795-200

6796-200

6797-200

Stirrers: Model PC-210

6795-210

6796-210

6797-210

Stirrer/Hot Plates: Model PC-220

6795-220

6796-220

6797-220



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1.0 International Symbols

The following chart is an illustrated glossary of the symbols that may be used in this manual or on the product.



Power – Indicates unit is plugged into power supply



Hot top – Top plate is too hot to touch (>60°C)



Heat – Indicates heat knob



Stir – Indicates stir knob



Indicates disposal instruction. DO NOT throw this unit into a municipal trash bin when this unit has reached the end of its lifetime. To protect the global environment and minimize pollution, please recycle this unit.

2.0 Product Description

Corning® Hot Plates and Stirrers have been a laboratory standard for over 50 years. Our products have been engineered with customer input to be reliable, precise, safe, and easy to use. This product features:

- ▶ A microprocessor that provides linear control for both heating and stirring to ensure consistent performance.
- ▶ Enclosed control electronics that protect sensitive components from harsh environments and reduce maintenance time and costs.
- ▶ The Pyroceram® top plate is easy to clean and highly resistant to scratches, corrosion, and chemical attack. It is also flatter to provide faster, more uniform heating, and is whiter to provide better contrast during applications which require monitoring of color changes.
- ▶ Rigorous testing standards for electrical safety, EMI (Electro Magnetic Interference), and regulatory approvals. Corning Hot Plates and Stirrers meet UL (USA), CSA (Canada), IEC61010 CE (Europe), GS (Germany), FCC regulations and others where appropriate.
- ▶ International symbols for power, heat, stir, and hot top.

3.0 Operating Conditions

Corning® PC-200 series Hot Plates and Stirrers are designed to be safe under the following conditions:

- ▶ Indoor use
- ▶ Altitude up to 2,000 meters
- ▶ Temperature of 0°C to 40°C
- ▶ Maximum relative humidity 80% for temperatures up to 31°C
- ▶ Main supply voltage fluctuations not to exceed $\pm 10\%$ of the nominal voltage
- ▶ Installation Category II
- ▶ Pollution Degree 2
- ▶ Position at least 30 cm from walls, 1.2 meters from ceilings, and 30 cm between hot plates if using multiple units.

4.0 Warnings

- ▶ Always wear safety glasses and other appropriate protection when operating this equipment.
- ▶ Keep the Pyroceram® top plate clean. Use non-abrasive cleaner. Spills may damage the top and lead to thermal failure. Unplug the unit and remove spills promptly. Should the top plate become damaged by etching, scratching, or chipping, replace the top plate and element assembly immediately using the manufacturer's complete assembly and instructions.
- ▶ Do not immerse the unit for cleaning.
- ▶ Do not heat or stir volatile materials.
- ▶ Do not use foil, fiberglass pads, or other insulating materials on the top of the unit when heating. Heat settings above 5 are not recommended for sand bath applications.
- ▶ Do not modify or substitute the earthed power plug. Use only power cords supplied by the manufacturer. Use only properly earthed outlets to avoid shock hazard.
- ▶ Do not modify the unit electrically or mechanically as personal injury or product damage may occur.
- ▶ Do not use ring stand to support unit on lattice or for support of heavy loads. Gross weight on top of any unit should not exceed 11 kg.
- ▶ Not explosion- or spark-proof.
- ▶ Not for industrial use. These units are designed for use in laboratory environments by persons knowledgeable in safe laboratory practices.
- ▶ Do not use equipment in a manner other than stated in the Operating Conditions section since the protection provided by the equipment may be impaired.
- ▶ Do not use metal containers or large heavy wall glass containers on top of the unit when heating.

5.0 Heating Operation and Controls

- ▶ The microprocessor ensures minimum heat-up times for samples by supplying maximum power to the heating element until the set point is reached.
- ▶ Top quality insulation keeps the heat on the top, away from controls and the lab bench, saving more energy than competitive units.
- ▶ The Hot Top Indicator light warns that the top plate is too hot to touch (>60°C).
- ▶ The Temperature sensor provides power cutoff in abnormal situations by limiting top plate temperature to 550°C.

Heating Operation

Fill the vessel with solution. For stirrers and stirrer/hot plates only, place the provided stir bar into the vessel, and set the vessel in the center of the top plate. Plug the line cord into an earthed power outlet – the green power indicator light will illuminate. Turn the heat knob clockwise to the desired setting. The amber heat light to the left of the heat knob will illuminate. Hot top indicator light will illuminate and remain on when temperature of the top plate reaches approximately 60°C.

Dial Setting	Approx. Temp.
0	OFF
1 - 2	25°C
3	90°C
4	170°C
5	230°C
6	300°C
7	410°C
8	460°C
9 - 10	480°C

NOTE: Temperatures listed above are typical with no top load.
Actual temperatures will be governed by dial setting and top load.

6.0 Stirring Operation and Controls

- ▶ Exclusive closed-loop stirring control monitors and regulates the stirring speed – sensing your requirements whether you’re stirring an aqueous, viscous, or semi-solid solution.
- ▶ Stirring control provides a “cushioned” reaction to large increases in speed to minimize decoupling.

Stirring Operation

Fill the vessel with solution. For stirrers and stirrer/hot plates only, place the provided stir bar into the vessel, and set the vessel in the center of the top plate. Plug the line cord into an earthed power outlet. The green power indicator light will illuminate. Turn the stir knob clockwise to the desired setting. The amber stir light to the left of the stir knob will illuminate.

Dial Setting	Approx. Stir Range (rpm)
0	OFF
1 - 2	60 (1- to 2-second delay at low setting)
3	100
4	155
5	250
6	380
7	550
8	870
9 - 10	1,100

NOTE: Revolutions per minute (rpm) listed are typical and were taken with a top load of 400 mL of water in a 600 mL PYREX® beaker at room temperature. Actual speeds will be governed by dial setting and top load.

7.0 Inspection Procedure

- Look for etching, scratching, or chipping on the top plate. If any of these conditions are present, replace the complete top plate element assembly immediately.*
- Check if the power cord is damaged. If the cord is damaged, replace immediately.*

8.0 Preventative Maintenance

- Disconnect power by unplugging the unit before performing any maintenance or service.*
- Always use an earthed outlet.
- Keep the Pyroceram® top plate clean. Unplug the unit, and use non-abrasive cleaner.
- Clean spills promptly. Unplug the unit, and use a non-abrasive cleaner.
- Do not immerse the unit for cleaning.

*Service should always be performed by a qualified technician using Corning parts and instructions. Please contact a Corning authorized repair facility for service and repair.

9.0 Technical Specifications

Model No.	PC-200, PC-210, PC-220
Top Style	Ceramic
Top Size	4 x 5 in. (10.2 x 12.7 cm)
Dimensions (H x W x D)	4.5 x 5.8 x 7.3 in. (11.43 x 14.7 x 18.5 cm)

Model No.	Cat. No.	Power	Max. Temp. Range	Stir Range (rpm)	Weight (kg)
PC-200	6795-200	120V/60Hz/253W/2.1A	25°C to 480°C	—	1.8
PC-200	6796-200	230V/50Hz/253W/1.1A	25°C to 480°C	—	1.8
PC-200	6797-200	100V/60Hz/253W/2.1A	25°C to 480°C	—	1.8
PC-210	6795-210	120V/60Hz/33W/0.3A	—	60 to 1,100	2.0
PC-210	6796-210	230V/50Hz/33W/0.17A	—	60 to 1,100	2.0
PC-210	6797-210	100V/60Hz/30W/0.3A	—	60 to 1,100	2.0
PC-220	6795-220	120V/60Hz/313W/2.4A	25°C to 480°C	60 to 1,100	2.3
PC-220	6796-220	230V/50Hz/313W/1.3A	25°C to 480°C	60 to 1,100	2.3
PC-220	6797-220	100V/60Hz/280W/2.8A	25°C to 480°C	60 to 1,100	2.3

10.0 Limited Warranty

Corning Incorporated (Corning) warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of purchase. CORNING DISCLAIMS ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Corning's sole obligation shall be to repair or replace, at its option, any product or part thereof that proves defective in material or workmanship within the warranty period, provided the purchaser notifies Corning of any such defect. Corning is not liable for any incidental or consequential damages, commercial loss or any other damages from the use of this product.

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in the supplied instruction manual. This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces, or other causes not arising from defects in original material or workmanship. This warranty does not cover motor brushes, fuses, light bulbs, batteries, or damage to paint or finish. Claims for transit damage should be filed with the transportation carrier.

In the event this product fails within the specified period of time because of a defect in material or workmanship, contact Corning's Customer Service at 800.492.1110. Outside the United States, call +1.978.442.2200 or contact your local Corning sales office.

Corning's Customer Service team will help arrange local service where available, coordinate a return authorization number, or provide a return authorization number and shipping instructions. Products received without proper authorization will be returned. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton, padded to avoid damage. Corning will not be responsible for damage incurred by improper packaging. Corning may elect for onsite service for larger equipment.

Some states do not allow limitation on the length of implied warranties or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights. You may have other rights which vary from state to state.

No individual may accept for, or on behalf of Corning, any other obligation of liability, or extend the period of this warranty.

For your reference, make a note of the model and serial number, date of purchase, and supplier here.

Model No. _____ Serial No. _____

Date Purchased _____

Supplier _____

11.0 Equipment Disposal



According to Directive 2012/19/EU of the European Parliament and Council of 4th July 2012 on waste and electronic equipment (WEEE) as amended, Corning® Analog Hot Plates, Stirrers, and Stirrer/Hot Plates are marked with the crossed-out wheeled bin and must not be disposed of with domestic waste.

Consequently, the buyer shall follow the instructions for reuse and recycling of waste electronic and electrical equipment (WEEE) provided with the products and available at the following link: www.corning.com/weee.

Register your product warranty online at
www.corning.com/lifesciences/warranty.

For more specific information on claims, visit the Certificates page at www.corning.com/lifesciences.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

For additional product or technical information, visit www.corning.com/lifesciences or call 800.492.1110. Outside the United States, call +1.978.442.2200 or contact your local Corning sales office.

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