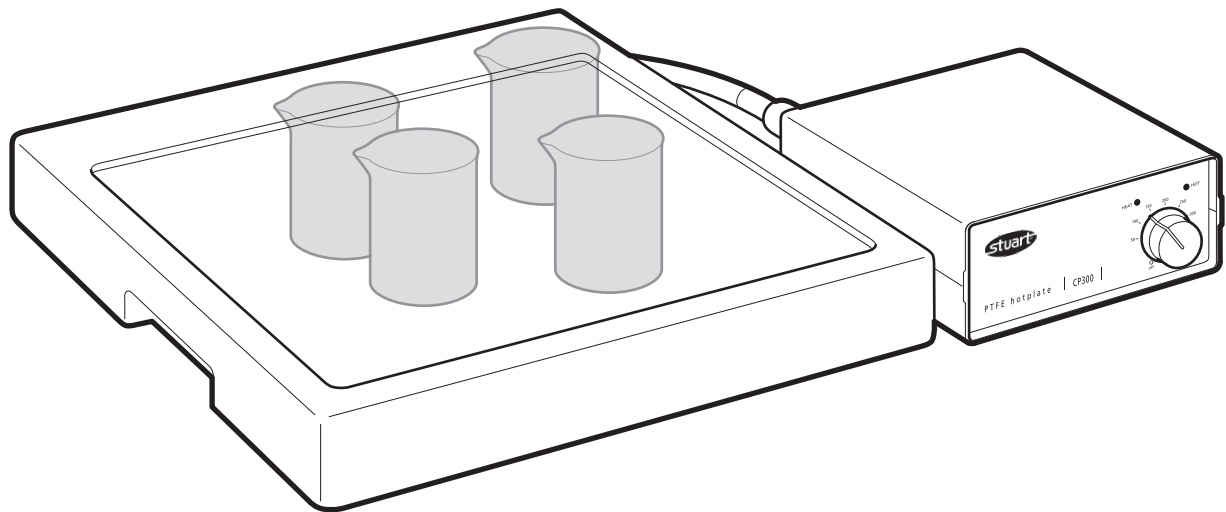




Hotplate, acid resistant
CP300



Instruction Manual

Version 2.2B

Hotplate

CP300

Instructions for use

Introduction

Thank you for purchasing this piece of Stuart equipment. To get the best performance from the equipment and for your own safety, please read these instructions carefully before use. Before discarding the packaging check that all parts are present and correct.

This equipment is designed to operate under the following conditions:

- ❖ For indoor use only
- ❖ Use in a well ventilated area
- ❖ Ambient temperature range +5°C to +40°C
- ❖ Altitude to 2000m
- ❖ Relative humidity not exceeding 80%
- ❖ Mains supply fluctuation not exceeding 10%
- ❖ Over-voltage category II IEC60364-4-443
- ❖ Pollution degree 2
- ❖ Use with a minimum distance all around of 200mm from walls or other items

If the equipment is not used in the manner described in this manual and with accessories other than those recommended by Stuart, the protection provided may be impaired.

Electrical Installation



THIS EQUIPMENT MUST BE EARTHED

Before connection please ensure that the line supply corresponds to that shown on the rating plate.

Model	Supply requirements
CP300	230V, 50 or 60Hz,~, single phase

The unit is supplied with two mains leads fitted with IEC plugs for connection to the control box. One has a U.K. 3 pin plug and the other has a 2 pin "Shuko" plug for connection to the mains. Choose the lead appropriate for your electrical installation and discard the other. Should neither lead be suitable, take the lead with the U.K. plug and replace the plug with a suitable alternative. This involves cutting off the moulded plug,

preparing the cable and connecting to the re-wireable plug in accordance with its instructions.

THIS OPERATION SHOULD ONLY BE UNDERTAKEN BY A QUALIFIED ELECTRICIAN

The wires in the mains cable are coloured as follows:

BROWN	-	LIVE
BLUE	-	NEUTRAL
GREEN/YELLOW	-	EARTH

The control unit is fitted with an IEC socket at the rear for connection of the mains lead.

The appropriate mains lead should be connected **BEFORE** connection to the mains supply.

Should the mains lead need replacement, a cable of 1mm² of harmonised code H05W-F connected to an IEC320 plug should be used.

NOTE: Refer to the equipment's rating plate to ensure that the plug and fusing are suitable for the voltage and wattage stated. The UK mains lead is protected by a 10A fuse mounted in the plug top.

Model	Power	Fuse
CP300	900W	T5A

Fuse fitted in both live and neutral lines.

IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN

Safety Advice Before Use

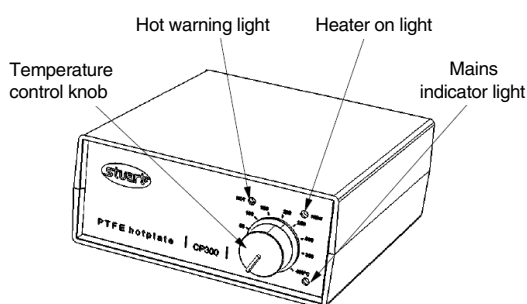
- ❖ Do not use to heat flammable materials.
- ❖ Position the instrument on a firm level surface away from any heat sensitive or flammable material.
- ❖ Never move or carry the unit while it is in use or connected to the mains supply. Switch off and allow to cool for at least 30 minutes.
- ❖ The unit should be carried using both hands with fingers under each side frame.
- ❖ In the case of mains interruption, a fault or failure, the unit **WILL** continue to operate on removal of the fault.
- ❖ **NEVER** immerse the hotplate unit in acid or any other liquid. The unit has breather holes in the base which will allow liquid access that will destroy sensitive components.

General Description

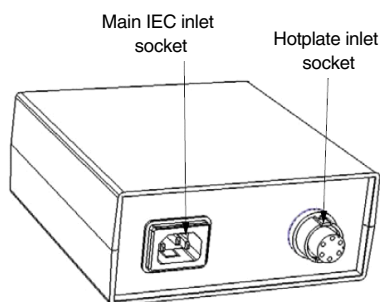
The acid resistant hotplate consists of a ceramic tile and heater assembly mounted in a block of high grade PTFE. The hotplate is controlled via a separate control unit which is connected by a 2 metre lead (partly covered with a PTFE sleeve). This allows the hotplate to be located in a fume hood and the controller outside, away from the corrosive environment.

Controls

Front of control unit



Rear of control unit



Operation

1. Position the hotplate unit on a firm level surface away from any heat sensitive or flammable material.
2. Plug the hotplate lead into the hotplate inlet socket of the control unit.
3. Connect the control unit to the mains supply (the green mains indicator light will illuminate).
4. Position the control unit in the area it is to be used (e.g. outside the fume hood).
5. Turn the control unit ON using the temperature control knob and select the temperature of the hotplate by using the printed scale around the knob. The heater on light will illuminate.



WARNING: When the hotplate surface is hot ($>50^{\circ}\text{C}$) the hot warning light will begin to flash red. This will continue to flash while the plate temperature is above 50°C even after the hotplate has been switched off (the control unit must remain connected to the mains supply).

Maintenance



WARNING: Before attempting to clean the unit, ensure that the hotplate is cool and that the control unit is disconnected from the mains electricity supply.

The control unit should be cleaned using a damp cloth and mild detergent solution. Do not use harsh or abrasive cleaning agents.

The hotplate body can be cleaned with almost any cleaning agent compatible with PTFE. A damp cloth will remove most types of contamination. For more difficult stains a domestic cleaner is recommended.

Cleaning is made easier if spillages are attended to promptly. In any case, spillages of alkali, phosphoric acid and hydrofluoric acid **MUST** be removed immediately as these chemicals can attack and damage the glass ceramic. Ensure the appropriate safety precautions are observed.

NEVER immerse the hotplate unit in acid or any other liquid. The unit has breather holes in the base which will allow liquid access that will destroy sensitive components.

WARNING: A ceramic top which is scratched, chipped, chemically etched or damaged must not be used.

Servicing

This product does not require any routine servicing.

NOTE: There are no internal user-replaceable parts.

In the event of a product failure any repairs or replacement of parts **MUST** only be undertaken by suitably qualified personnel.

For advice, please contact the Service Department, quoting both the model number and serial number:

Email: cpservice@coleparmer.com
Tel: +44 (0)1785 810475

Only spare parts supplied or specified by Cole-Parmer or its agents should be used. Fitting of non-approved parts may affect the performance of the safety features designed into the instrument. If in any doubt, please contact the Service Department of Cole-Parmer or the point of sale.

For any other technical enquiries, please contact the Technical Support Department:
Email: cptechsupport@coleparmer.com
Tel: +44 (0)1785 810433.

Warranty

Cole-Parmer Ltd. warrants this equipment to be free from defects in material and workmanship, when used under normal laboratory conditions, for a period of **three (3)** years. In the event of a justified claim, Cole-Parmer will replace any defective component or replace the unit free of charge.

This warranty does NOT apply if damage is caused by fire, accident, misuse, neglect, incorrect adjustment or repair, damage caused by installation, adaptation, modification, fitting of non-approved parts or repair by unauthorised personnel.

This warranty does NOT apply if the ceramic top has broken due to mechanical impact, scratching, chipping or chemical etching.

Cole-Parmer Ltd.
Beacon Road,
Stone, Staffordshire,
ST15 0SA, United Kingdom
Tel: +44 (0)1785 810475
Email: cpservice@coleparmer.com
Web: www.stuart-equipment.com

Technical Specification

	CP300
Plate material (hotplate)	Glass ceramic
Body material (hotplate)	PTFE
Plate dimensions	300 x 300mm
Heated area	200 x 200mm
Heater power	900W
Maximum plate temperature	400°C
Hotplate dimensions (w x d x h)	320 x 360 x 60mm
Control unit dimensions (w x d x h)	150 x 160 x 65mm
Lead length	2m
Net weight	11kg
Electrical supply	230V, 50-60Hz

CE This product meets the applicable harmonised standards for radio frequency interference and may be expected not to interfere with, or be affected by, other equipment with similar qualifications. We cannot be sure that other equipment used in its vicinity will meet these standards

and so we cannot guarantee that interference will not occur in practice. Where there is a possibility that injury, damage or loss might occur if equipment malfunctions due to radio frequency interference, or for general advice before use, contact the manufacturer.



EU Declaration of Conformity

Product	Laboratory Equipment	File Number	P225
Manufacturer	Cole-Parmer Ltd Beacon Road Stone, Staffordshire ST15 0SA United Kingdom		

This declaration of conformity is issued under the sole responsibility of the manufacturer

Object of Declaration CP300 PTFE Hotplate
(reference the attached list of catalogue numbers)

The object of the declaration described above is in conformity with the relevant Union Harmonisation Legislation:

Low Voltage Directive	2006/95/EC	(until 19 April 2016)
	2014/35/EU	(from 20 April 2016)
EMC Directive	2004/108/EC	
RoHS Directive	2011/65/EC	

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

IEC/EN 61010-1:2010	Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements.
IEC/EN 61010-2-010:2003	Particular requirements for laboratory equipment for the heating of materials.
IEC/EN 61326-1:2006	Electrical equipment for measurement, control and laboratory use. EMC requirements. Part 1: General requirements (Class A).

Signed for and on behalf of the above manufacturer

Additional Information	Year of CE Marking: 2003
Place of Issue	Stone, Staffordshire, UK
Date of Issue	June 2009. Revised 18 April 2017
Authorised Representative	Carl Warren
Title	Technical Manager
Signature	

INSPECTION REPORT

MODEL **CP300**

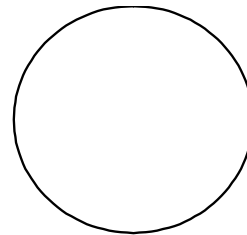
ELECTRICAL SAFETY

- 1. Earth continuity
- 2. Insulation
- 3. Flash test

FUNCTIONAL

- 1. Indicators
- 2. Heating function
- 3. Visual acceptance

QUALITY CONTROL INSPECTOR





Cole-Parmer Ltd.

Beacon Road,

Stone,

Staffordshire,

ST15 0SA,

United Kingdom

Tel: +44 (0)1785 812121

Email: cpinfo@coleparmer.com

Web: www.stuart-equipment.com