



Prestige Medical[©]

Integrated decontamination solutions



Classic Media Operating Instructions



Model Numbers: 210047 & 210048



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IMPORTANT OPERATING INFORMATION

Caution!

Before using or maintaining the Prestige Medical Classic Media autoclave ensure that you read and fully understand the operating instructions paying particular attention to information held within this page.

This model is designed to operate at 121 +2°C for 22 minutes, for the sterilization of culture media. Please note that the Classic Media should not be used to sterilize wrapped instruments or porous loads. This cycle is not recommended for the sterilization of medical or dental instruments. TST Strips are not supplied with this model.

When sterilizing media, to ensure the safe operation of the autoclave and to avoid damage to the media, DO NOT manually vent the pressure by operating the pressure release valve at the end of the cycle. As an added safety feature, the lid interlock has been set to release only when the temperature of the chamber contents has dropped to 80°C or below.



Introduction

Thank you for choosing the Prestige Medical 210047/210048 Classic Media Autoclave, designed to sterilize culture media. After removing from the box, please check for any transit damage. If any damage to the unit is found, please contact your supplier immediately.

Together with this unit and operating manual, you will find the following:

Electrical mains cord
Instrument furniture
Spare fuses x2 (when fitted)
Performance test certificate
Certificate of Compliance (230v models only)
Warranty registration card

Key to Pictures, Diagrams and Symbols

The following descriptions refer to the pictures of the controls, display lights and operating symbols on Page 3 of this manual.

Controls:

A - Depressurisation valve
B - Start cycle button
C - Pressure rise indicator
D - Display panel
E - Interlock mechanism

Figures:

F1 -Lid aligned with body, turn clockwise to close
F2 -Lid in closed position

Display Lights:

L1 - Power on light - illuminates GREEN
L2 - Heating light - illuminates ORANGE
L3 - Sterilizing light – illuminates YELLOW
L4 - Sterilizing complete light – illuminates GREEN
L5 - Fault light – illuminates RED

Warning Symbols:

W1 – Warning, caution, electric shock hazard.
W2 – Warning, read manual before using the autoclave.
W3 - Warning, unit must be earthed/grounded.
W4 – Warning, heat hazard.

WARNING!

Do not touch body or lid as these parts become hot when the autoclave is in operation

Before using the autoclave for the first time please take time to read the following pages to familiarise yourself with the operation of the unit.

We strongly recommend that all users of the autoclave are trained in its operation.

The autoclave is very easy to use. By following this simple operating sequence in conjunction with the pictures of the autoclave, its controls, display panel and operating symbols (page 3), you will be able to ensure your autoclave functions correctly every time.

WARNING!

Mains outlet **MUST BE GROUNDED (EARTHED)**

The mains plug should always be easily accessible as it is to be relied upon as "the means of disconnection"

Operation

1. Connection.

Attach the cable supplied to the rear of the unit (I) and plug into an EARTHED mains electrical socket of the CORRECT voltage.

2. Water.

Fill the unit to the water level line on the inside of the chamber with 0.75 litres of distilled or de-ionised water (S1).

DO NOT USE TAP WATER OR OVERFILL.



Operation

3. Loading (Media).

Place media containers into the instrument basket, and place in the unit.

When using the basket, always place the metal 'V' support in the bottom of the unit so ensuring load is not in the water .

4. Closing.

Always place the lid on the autoclave with the Depressurization Valve (A) in the open position. Align the arrows on the lid and body (F1) and with the interlock button (E) pressed down turn in a clockwise direction ensuring it is completely closed (F2). Release the interlock button.

Close the Depressurization Valve (A).

5. Power on.

Switch the unit on at the mains.

Light: L1 illuminates GREEN

6. Temperature.

The 121°C temperature is automatically selected when the power is turned on.

7. Starting.

Press the cycle start button (B) to start the sterilizing cycle.

Light: L2 illuminates ORANGE and may flash.

As the temperature rises, air will be displaced by steam through the Air Bleed Device located in the lid, until it closes with an audible "click", sealing the unit.

Sterilizing temperature is reached when:

Light: L3 illuminates ORANGE

L2 *flashes* ORANGE

The sterilizing cycle is completed when:

The internal buzzer sounds and

Light: L4 is illuminated GREEN.

8. Depressurizing.

Once sterilizing has finished the unit should be left to automatically cool down without opening the pressure release valve.

9. Unlocking.

Once the temperature has reached a safe level and is below 80°C the interlock will release and the lid can be unlocked.

Remove the lid by pressing down on the interlock button (E) and turning the lid in an anti-clockwise direction, aligning the arrows (F1 & F2).

10. Unloading.

Lift off the lid, gently place upside down on a solid work surface and leave to cool. Ensure the Depressurization Valve (A) is in the closed position to avoid damaging it.

The basket containing the sterilized media can now be lifted out of the unit with care.


Allow 5 minutes for the lid to cool down before replacing as per Step "4".

DO NOT USE THE MEDIA IF A COMPLETE STERILIZATION CYCLE HAS NOT BEEN ACHIEVED.

Do's and Dont's

To ensure your autoclave gives you the years of service for which it was designed, it is important to remember a few "do's" and "dont's" with regards to the operation of the unit and to carry out the simple weekly basis.

Do ensure

- 1... you read these instructions and always follow the operating sequence.
 - 2... the media will withstand the sterilizing temperatures selected, bottles are not sealed and screw tops are loose - do not overload the autoclave
 - 3...the water level is maintained regularly with clean distilled or de-ionised water only.
 - 4...the unit is in a "draft free" environment and is positioned not less than 250mm from adjacent walls.
 - 5...you only use green sealing gasket (219500) and that it is changed at the end of its life, if visibly damaged, or when shrinkage has occurred.
- 
- 6...the lid is securely closed when the unit is not in use, to avoid the risk of accidental damage. Never leave in position (F1).
 - 7...you record the temperature and pressure readings for each cycle completed, to ensure they remain constant between cycles. Check readings against those quoted - see "Technical data" section.
 - 8...you quote your model details, serial number and date of purchase when contacting Prestige Medical or your supplier.

Do not...

- 1...lose this operating instruction manual.
- 2...add any chemicals whatsoever to the water.
- 3...attempt to sterilize volatile substances, toxic materials or inappropriate loads.
- 4...place the unit on heat sensitive surfaces ie polished wood or glass.
- 5...open the Depressurization Valve (A) during the sterilization cycle.
- 6...leave the Depressurization Valve (A) in the "open" position when placing the lid upside down on a work surface.
- 7...immerse the unit or electrical cord in water when cleaning.
- 8...use abrasive materials or lubricants when cleaning.
- 9...drop or abuse the unit.
- 10.use in areas of risk associated with flammable materials or gases.
- 11.attempt to change any fuses until the unit has been unplugged from the mains*.

- 12.reach over the unit when removing cover, to do so may cause burns from rising heat and steam.
 - 13.cover lid or obstruct steam venting area when manually depressurizing.
- * *These operations should only be undertaken by a qualified person.*

Care and Maintenance.

Green Sealing Gasket.

- 1...Remove from inside the lid and clean with warm, soapy water.
- 2...Rinse thoroughly, shake dry, do not wipe.
- 3...Replace in the lid by tucking evenly under all lugs. It may appear slightly wrinkled until used.
- 4...Replace when it begins to show signs of leakage.

Autoclave.

- 6...If a new gasket leaks, or a persistent leak develops, gently clean the sealing surface of both the lid and body of the unit with a "Scotchbrite" scrubbing pad making sure you do not remove any metal. Rinse both surfaces, but do not dry.
- 7...Clean both interior and exterior with warm soapy water ensuring electrical parts are kept dry.
- 8...Monitor the first cycle of the day to check the Air Bleed Device which is located inside the lid, audibly "clicks" shut.
- 9...Prestige Medical recommend that your unit is calibrated at six monthly intervals
- 10.Lubricate underside of body lugs with "vaseline" if the lid becomes stiff.

DO NOT LUBRICATE GASKET

Troubleshooting

In the event of a fault occurring during any stage of the unit's operation, identify the fault by referring to their descriptions below. The fault can be corrected by following a few easy steps.

(Note: light L1 will be constantly illuminated GREEN whilst the unit is powered up).

Fault Indication/Description/Remedy

Fault 1: No power to unit

Light: L1 fails to illuminate.
Check for defective socket.
Check for power to socket.
Ensure lead is connected to electrical socket

Fault 2: Low water or boil dry.

Light: L5 flashes RED
Allow unit to cool before refilling to the correct level.
Disconnect from mains then reconnect and repeat cycle.
If the fault repeats with sufficient water, arrange for a service engineer to visit.

Fault 3: Sterilization failed to be achieved.

Light: L4 fails to illuminate GREEN and there is no audible buzzer.
Disconnect from mains then reconnect and repeat cycle.
If the fault repeats arrange for a service engineer to visit.

Fault 4: Steam or water leaks from under the lid.

i) Worn or dirty gasket.
Wash gasket and sealing surfaces on the body and lid as described under "Care and Maintenance".
If the fault persists, replace with a new gasket.

ii) Incorrectly closed lid.
Ensure the unit is fully depressurised by opening Depressurisation Valve (A).
Remove lid and re-fit carefully.

Disconnect from mains, reconnect and repeat cycle.

Fault 6: Excessive steam or water leaking from Depressurisation Valve (A).

Depressurisation Valve (A) in "OPEN" position.
Close Depressurisation Valve (A).

DURING THE COURSE OF OPERATION THE WATER LEVEL MUST BE MAINTAINED UP TO THE WATER LEVEL LINE.

Specifications

In the unlikely event that something should go wrong, we have incorporated a number of safety features to ensure that your autoclave remains safe at all times.

Safety features.

1. Located to the rear of the lid, beneath the cover, is a spring called the Gasket Offset Device (GOD Spring), designed to prevent pressure building up if the lid has been incorrectly fitted.

DO NOT TAMPER WITH THIS SAFETY DEVICE

2. If for any reason, the temperature falls below the minimum required sterilizing temperature, resulting in the Sterilizing light (L3) switching off, the cycle timer will re-start from zero once the correct temperature has been restored.

3. If there is an electrical or electronic failure resulting in a build up of pressure - in excess of normal operating pressure - one or all of the following safety features will be activated.

- i) Depressurisation Valve (A) will loudly and rapidly "vent" steam.
- ii) The gasket will "extrude" through the slot in the rear of the lid rapidly releasing excess pressure and steam.
- iii) A non - resettable thermal fuse located in the base of the unit will "melt" at a pre-determined temperature, disconnecting the power.

Should any of the devices listed above activate, please observe the following steps:

- a) Do not touch the unit.
- b) Switch off at the wall socket and un-plug
- c) Allow temperature and pressure to drop before
 - i) touching the unit
 - ii) removing your instruments
- d) Do not attempt to re-start the unit
- e) Arrange for an immediate service.

Technical Specifications - Standard Body Autoclaves - Model 210047

Height	335 mm	Internal Dimensions (d/h).....	210/230 mm
Width	340 mm	Max' Load Weight	3.0kgs
Capacity	9 litres		
Net Weight	4.5 kgs		

Technical Specifications - Extended Body Autoclaves - Model 210048

Height	420 mm	Internal Dimensions (d/h).....	210/270 mm
Width	340 mm	Max' Load Weight	3.0kgs
Capacity	12 litres		
Net Weight	4.5 kgs		

Fuses - Located under the control module, fuses F10A, 32 x 6.3mm, ceramic sand filled.

Mains plug top fuse (user replaceable), F13A to BS1362.

Rating - Models are rated continuously for intermittent use.

Body - Deep drawn aluminium.

Lid - Aluminium .

Heater - Externally surface mounted mechanically fixed electric element.

Temperature Cut Out - Thermal fuse.

Pressure calibrated pressure release valve.

Max. Single Fault Temperature - 130.0°C
Over Voltage Category - Group II
Pollution Degree - Group 2

Environment Conditions - indoor use - temperature 5°C to 40°C altitude up to 2000m - maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C. - mains supply voltage fluctuations not to exceed +10% of the nominal voltage Input Connections - Mains inlet socket 'hot' format conforming to IEC 302.

Safety Shut Down - See 'Temperature Cut Out'.

Packaging - All packaging materials are recyclable.

Additional Information.

Spares

Only those spare parts supplied or specified by Prestige Medical should be used in the maintenance of the autoclave. Use of unauthorised parts will invalidate any warranty given and may adversely affect the performance and safety of the unit.

Accessories.

A range of accessories are available for your autoclave as described below.
Contact your supplier for full details.

219294 - Lifting Device	219290 - Cassette Rack
219293 - General Instrument Tray	219296 - Extended Basket (210048 Only)
219292 - Standard Basket	219500 - Green Silicone Sealing Gasket
219295 - 'V' Support	219258 - Cord Set UK

Warranty.

Prestige Medical shall, in the first 12 months from the date of purchase, repair or replace free of charge any parts, which prove to be defective in workmanship and/or materials. The heating element (only) is covered by a lifetime guarantee.

Prestige Medical shall not be so liable in the event that the purchaser has failed to adhere to the instructions contained herein or if the autoclave has been abused, interfered with, altered, repaired or serviced by any unauthorised party this may also result in the protection provided by the equipment being impaired.

This warranty excludes the gasket, all internal furniture and consumables.
Consumer's statutory rights are not affected.

Product decontamination.

Should the unit require repair, it must be decontaminated in accordance with a recognised procedure prior to return or on-site repair. A statement of equipment contamination status must be available with the product. (Details of a suitable procedure are available on request).

Cleaning materials:

- ◆ Mild washing up liquid.
- ◆ Non-abrasive cream cleaner.
- ◆ Warm water

Approvals.

BS 3970 Part 4 – Pressure vessel only. CE mark – medical device derivative. IEC 61010 – Product safety.
BS 550 – Pressure vessel

Packaging.

All Prestige Medical packaging materials used are recyclable - please dispose of accordingly.

Disposal.

WEEE Statement (Waste Electrical and Electronic Equipment)

The WEEE Directive places an obligation on all EU-based manufacturers and importers to take back electronic products at the end of their useful life.

Prestige Medical Limited accepts its responsibility to finance the cost of treatment of redundant WEEE in accordance with the specific recycling requirements.

The symbol (shown opposite) is present on all Prestige Medical products, which indicates that the product must NOT be disposed of with other waste. Instead it is the user's responsibility to dispose of their waste electrical and electronic equipment by handing it over to an approved reprocessor, or by returning it to Prestige Medical for reprocessing.





Quote your model details, serial number, and date of purchase when contacting Prestige Medical or your supplier.

Model No.

Serial No.

Date of purchase.



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