



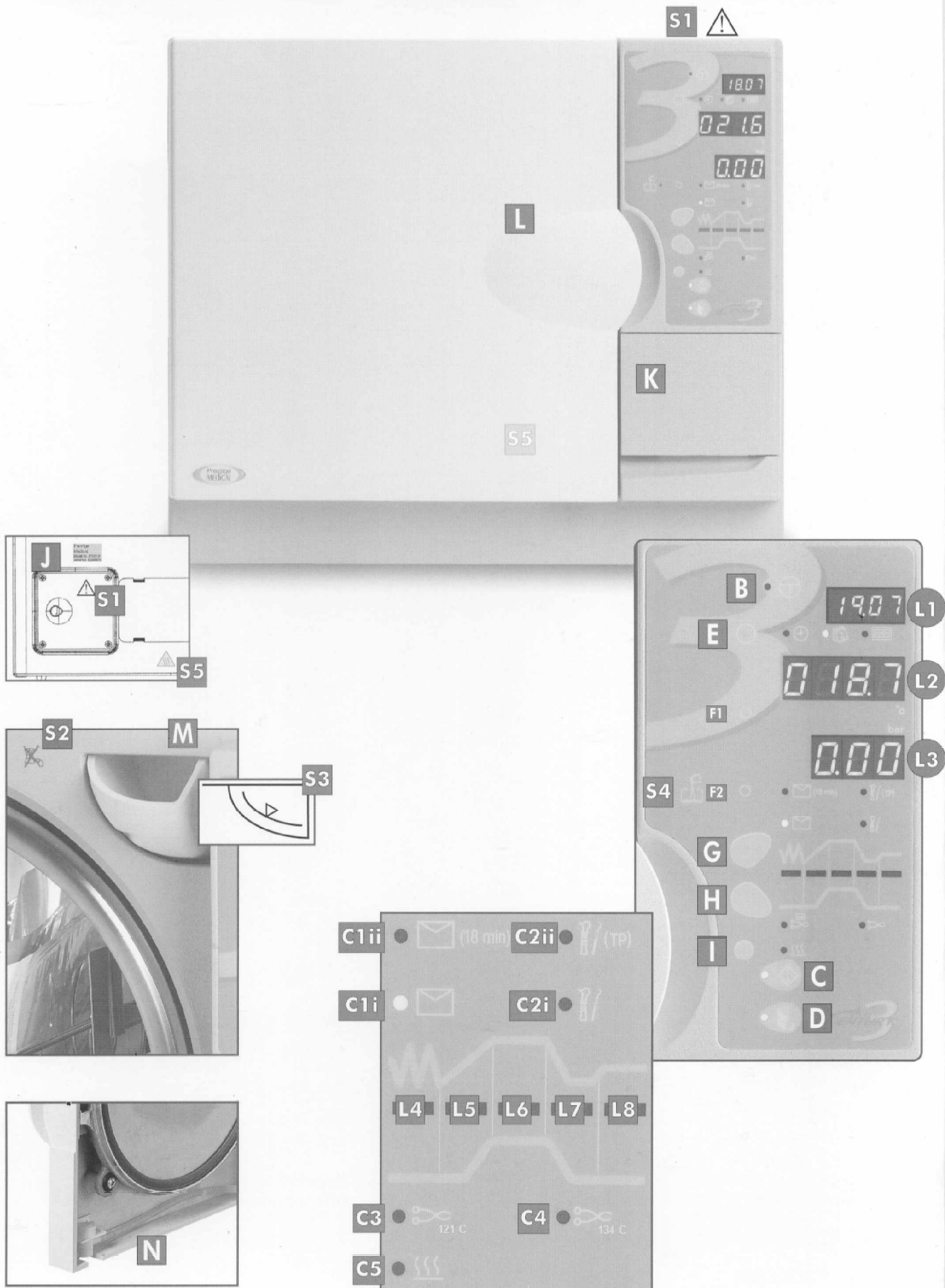
## Operating Instructions

Century 3 Vacuum Autoclave

16 & 22 Litre Model Options

## Contents.

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# English

## Introduction.

Thank you for choosing the Prestige Medical Century 3 Autoclave.

All “Type B” vacuum cycles on this autoclave use the triple pulse fractionated vacuum system and are fitted with an active air leak detection system.

Non-vacuum cycles use the thermodynamic air displacement system.

Drying cycles employ a “closed door” system.

An “Auto-cycle start” option is included which allows the user to programme the time of day at which the selected cycle should start.

Before unpacking, refer to the “Manual Handling” section on page 13.

Whilst unpacking check the unit for transit damage. If damage is found, please report this to the shipping agent immediately, in writing and then notify your dealer.

Product contents will contain the following: -

- Autoclave with internal furniture.
- Handbook and warranty card.
- Performance Test Certificate and Certificate of Conformance for pressure vessel (all UK models).
- Bowie Dick Test Pack or Test Helix.
- Waste water container.

## Types of load and loading.

This autoclave has been qualified to sterilize loads as defined by prEN13060.

Cycles C1i & C1ii – Wrapped, pouched, solid, hollow instruments (length to diameter ratio 750:1 Length may be doubled for tubes that are open at both ends) and porous items.

Cycle C2i – Unwrapped, un-pouched, solid or hollow instruments (length to diameter ratio 110:1 Length may be doubled for tubes that are open at both ends).

Cycles C2ii – Process Challenge Device cycle (Bowie Dick Test Pack or Helix). To be used for validation of cycles C1i and C1ii.

Cycles C3 & C4 – Unwrapped solid instruments only.

### **WARNING!**

**Refer to the instrument manufacturer about their suitability for autoclaving and the maximum temperature that the instruments can withstand.**

- A “responsible person” must qualify other loads as suitable. Refer to “Additional Information”.
- Maximum load per instrument tray is 2 kg. Refer to “Technical Specifications” for the maximum instrument load for the autoclave.
- All instruments must be cleaned prior to sterilizing.
- Wrapped or pouched loads should not touch adjacent loads when placed in the rack. Pouches must be used for only one item.
- When placing on a tray, ensure items are placed on the ribs of the tray (to aid drainage), they do not touch each other and the load does not touch the other trays or chamber in any way.
- Always use the lifting device when removing trays from the autoclave, as they may be hot. Long trays should be supported at their rear as they become free of the tray carrier. Do not use an unprotected hand to hold hot trays.

## Operating Symbols, Controls and Displays.

The following descriptions refer to the symbols, controls and displays shown on Page 3 of this manual.

### Symbols:

- S1 IMPORTANT: Read Operating Instructions before use.
- S2 Do not use tap water.
- S3 Maximum water fill line.
- S4 Fill water tank.
- S5 Hot parts (behind) Do Not Touch. Also behind door (L).





### General Controls / Operations:

Note: The function is selected when the LED adjacent to the button is illuminated.



- |                                   |  |
|-----------------------------------|--|
| A Not applicable.                 | B Standby / Ready button.              |
| C Cycle start button.             | D Door open button.                    |
| E Select time/date/cycle counter. | F Adjust time/date settings (F1/F2)    |
| G Select vacuum cycles.           | H Select Non-vacuum cycles.            |
| I Select "Additional drying".     | J Fuses (located behind access panel). |
| K Printer door.                   | L Main door.                           |
| M Water fill.                     | N Fresh water tank drain.              |

### Cycle controls.

Press G to select the **vacuum** cycles these are as follows: -

- |  |             |  |
|--|-------------|--|
|    | <b>C1i</b>  | 134°C /4min Vacuum cycle for porous loads, wrapped, pouched, solid / hollow instruments with drying.   |
|    | <b>C1ii</b> | 134°C /18min. Vacuum cycle for porous loads, wrapped, pouched, solid / hollow instruments with drying. |
|  | <b>C2i</b>  | 134°C /4min. Rapid vacuum cycle for un-pouched solid or hollow instruments, <u>without</u> drying.     |
|  | <b>C2ii</b> | 134°C /4min. Steam penetration test <u>without</u> drying. Suitable for Bowie Dick Test Pack or Helix. |

Press H to select **non-vacuum** cycles.

- |  |           |   |
|--|-----------|---|
|  | <b>C3</b> | 121°C /15½min. Non-vacuum cycle for unwrapped solid instruments, <u>without</u> drying. |
|  | <b>C4</b> | 134°C /4min. Non-vacuum cycle for unwrapped solid instruments, <u>without</u> drying.   |

Press I to select "Additional Drying".

- |  |           |                    |
|--|-----------|--------------------|
|  | <b>C5</b> | Additional drying. |
|--|-----------|--------------------|

AFTER EVERY CYCLE THE UNIT RETURNS TO THE DEFAULT CYCLE C1i.



### Display Options.

- L1 Display for "Time" "Date" & "Cycle counter".  
*The normal display mode is time. The date or cycle counter can be selected by pressing the button E adjacent to the display. The selection is valid until a cycle is completed or until the unit is returned to standby mode, at which point the display will revert to the current time.*
- L2 Display for "Temperature"
- L3 Display for "Pressure".

The following show the cycle status:

- L4 Cycle started.
- L5 Heating and air bleed.
- L6 Sterilizing.
- L7 Depressurisation / drying.
- L8 Cycle complete.

## Operation.

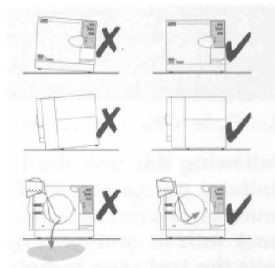


Please take time to read these instructions before using the autoclave. It is essential that the operator is correctly trained and a “Responsible Person” has been assigned for the management of the autoclave. By following these simple step-by-step instructions you can ensure your instruments are correctly sterilized every time.

### 1. Installation.

Ensure the unit is placed on a strong, flat and level surface.

To check if the unit is level, pour half a cup of water into the chamber. The water should flow towards the rear of the chamber, not out of the front.



#### WARNING!

The autoclave is heavy; at least two people will be needed to lift it.

### 2. Connection.

Plug the unit into the mains outlet socket of the correct type & rating. Refer to the duplicate rating plate located inside the printer door (K).

After a few seconds the LED next to button (B) illuminates.

#### WARNING!

The mains outlet **MUST BE EARTHED (GROUNDED)**. The mains plug should always be easily accessible as it is to be relied upon as “the means of disconnection”.

### 3. Single Use Water System.

This unit has a “single use” water system designed to prevent the recycling of any contaminants, which may be present on the instruments being sterilized.

Ensure the “waste water container” is checked regularly to prevent overflowing. The container should be emptied when the wastewater reaches the “Max” line.

To empty the container, undo the screw cap and carefully remove the steam-condensing coil, which passes through the cap.

Place on a heat resistant surface whilst emptying the container.

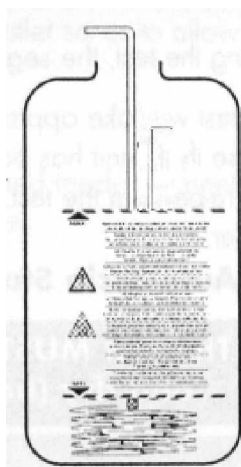
Use the carry handle to support the container when emptying. Replace the steam-condensing coil and cap; ensuring it is screwed on securely.

**Note:** Before using for the first time and after emptying, always add water until the level reaches the minimum level mark.

The wastewater container can be located in any appropriate place although care should be taken that it cannot be knocked over.

#### WARNING!

Wastewater and steam condensing coil may be hot. Care should be taken at all times.



### 4. Setting Date and Time.

Date and time are set in the following sequence.

Note: The 24 hour clock is used.

Year (tens): Year (hundreds): Month: Day: Minutes: Hours.

- Set the autoclave in “Ready Mode” by pressing ready button (B). The LED next to button (B) will then go out.
- Press and hold button (E) for 5 seconds.
- Set year (tens) by pressing button (E) up and (F1) down. Press button (F2) to accept.
- Set year (hundreds); Month; Day; Minutes; hours; by pressing button (E) up and (F1) down. Press button (F2) to accept.
- The unit returns to “Ready Mode” when the hours are accepted.

### 5. Ready.

Press button (B) to set the autoclave into “Ready Mode”.

The LED next to button (B) will go out.

Note: When in “Ready Mode”, the boiler and chamber are kept warm.

### 6. Water fill – DO NOT USE TAP WATER.

Before using the autoclave for the first time fill with water.



Press button (D) to open the door. Pour water into the fill spout (M) until it reaches the “Maximum line” (S3). The water capacity is 3.7 litres. When the low water indicator illuminates (S4), top up with water.

**Always use de-ionised, distilled or sterile water as recommended. Never use tap water.**

### 7. Loading.

Refer to “Type of load and loading” on page 4 and “Specifications” on page 14 for the maximum permissible load.

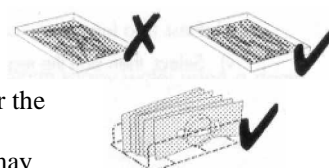
Failure to follow instructions may cause the unit to malfunction and result in an unsuccessful cycle.

Before loading, ensure instruments are cleaned and rinsed. Always use the instrument trays or racks, which are supplied. Load instruments so that they do not touch other instruments or the chamber and are resting on the ribs of the tray.

Only one item should be placed in a pouch.

Linen loads should be formed into a cube of size 150mm.x 120mm. x 100mm. (maximum), weighing no more than 1 kg. Place on an instrument tray in the middle of the chamber.

Linen loads should not be sterilized in combination with other loads.



### 8. Door closing.

Once the trays are in place close the door by pushing until a “click” is heard. The LED next to the door open button (D) illuminates.

## Operation (continued).

### 9. Cycle Options.

After each cycle the unit returns to the default cycle "C1i"  
134°C /4min Vacuum cycle for porous loads, wrapped,  
pouched, solid / hollow instruments with drying.

Cycle options are:

Press G to select the **vacuum** cycles these are: -



134°C /4min Vacuum cycle for porous loads,  
wrapped, pouched, solid / hollow instruments with  
drying.



134°C /18min. Vacuum cycle for porous loads,  
wrapped, pouched, solid / hollow instruments with  
drying.



134°C /4min. Rapid vacuum cycle for un-pouched  
solid or hollow instruments, without drying.



134°C /4min. Steam penetration test without drying.  
Suitable for Bowie Dick Test Pack or Helix.

Press H to select **non-vacuum** cycles.



121°C /15½min. Non-vacuum cycle for unwrapped  
solid instruments, without drying.



134°C /4min. Non-vacuum cycle for  
unwrapped solid instruments, without drying.

Press I to select "Additional Drying".



Additional drying. This option can be added before or  
after a cycle.

NB. Although additional drying can be selected for the Steam  
Penetration Test this does not in fact activate drying on this  
cycle. The only way to get drying on this cycle is to add  
drying after the cycle has completed.

### To select before starting a cycle:

- (i) Press button (I) once. L4 illuminates to indicate  
10 additional minutes.
- (ii) Press (I) a second time. L4 & L5 illuminate to  
indicate 20 additional minutes.
- (iii) Press (I) a third time. L4 L5 & L6 illuminate to  
indicate 30 additional minutes.
- (iv) Press (I) a fourth time. This cancels additional  
drying.
- (v) Select, then start the required cycle. See "10".

### To select after a cycle has been completed:

- (i) With the door closed press and hold button (I)  
for 10seconds. L7 flashes to indicate 10minute  
drying in progress.
- (ii) Press button (I) once. L4 illuminates to indicate  
10 additional minutes. Now press and hold  
button (I) for 10seconds. L4 and L5 are  
illuminated. Then L7 flashes to indicate  
20minute drying in progress.
- (iii) Press button (I) twice. L4 & L5 illuminated to  
indicate 20 additional minutes. Now press and  
hold button (I) for 10seconds. L4 L5 and L6 are  
illuminated. L7 now flashes to indicate 30minute  
drying in progress.

### 10. Start Cycle.

Press button (C) to start a fully automatic cycle. A visual  
display shows the stages of the cycle:

- Stage 1 Cycle started (L4)
- Stage 2 Heating and air bleed (L5)
- Stage 3 Sterilizing (L6)
- Stage 4 Depressurisation / drying (L7)
- Stage 5 Cycle completed (L8)

### 11. Opening door.

At the end of a cycle a buzzer sounds 3 times. Press button  
(D) to open the door, allowing access to the load.

## Additional Operations.

### Steam Penetration Test.

The “Steam penetration test” should be performed on a daily basis to confirm that the unit is operating correctly.


A Bowie Dick Test Pack or a Test Helix **MUST** be used with this test. The Pack or Helix should be placed on an instrument tray in the middle of the chamber towards the front.



Test Helix



Bowie Dick Test Pack

Run the  cycle for the steam penetration test.

Following this test, the Test Pack or Helix TST should change to a uniform purple colour. If the TST is not a uniform purple colour check the door gasket and vessel. Repeat the test. If the test fails again seek technical assistance.

### Vacuum system leak test.

The “vacuum system leak test” checks the integrity of the vacuum system. NB. A printer **MUST** be fitted.

The test **MUST** be undertaken when the unit is cold and dry (before any other cycle has been run).

Set the autoclave in “Standby Mode” by pressing ready button (B). The LED next to button (B) will illuminate.

Press and hold button (G) for 6 seconds. The display (L1) will begin to count down. Hold button (G) until the count down reaches zero. The test will then start.

During the test, the segments of the cycle status graphic (S5) will flash.

The test will take been 15 to 30 minutes. On completion the print out will advise if the unit has passed or failed the test. If a fail occurs clean the gasket and the chamber rim before repeating the test. If the unit repeatedly fails contact Prestige Medical or your dealer.

### Auto-cycle start.

The unit can be programmed to enable any cycle to be started at any time of the day when the unit is unattended. This option is recommended particularly when the operator performs “Air leak detection test”.

- Set the autoclave in “Standby Mode” by pressing ready button (B). The LED next to button (B) will illuminate.
- Press and hold button (E) for 6 seconds and release. The time display (L1) will flash with the default time of 06.30 being displayed.
- Press (F2) to accept. If another time is required for the auto-cycle start, change minutes then hours; by pressing button (E) up and (F1) down. Accept by pressing button (F2).
- The unit returns to “Ready Mode” and the LED to the left of the clock symbol continues to flash.
- Select the required sterilizing cycle using buttons (G), (H) and (I).
- Press the start button (C). The door LED (D) and the start LED (C) both flash. The clock symbol LED is still flashing.
- The selected cycle will start when the programmed start time is reached. The clock symbol LED flashes until the cycle is completed.
- To abort a timed cycle (before the cycle starts) press the “Standby button” (B).

Note: If the unit is used in a very cold environment, water vapour may be seen coming from the cooling fan. This is normal and will only last a few minutes.



## Essential Information.

To ensure the autoclave continues to operate correctly it is important to follow the following points and to carry out the necessary care and maintenance procedures as specified.

### Do ensure that.....

- ...you read and follow these operating instructions.
  - ...the load is suitable for sterilizing and the cycle selected.
  - ...the load can be sterilized at the selected temperature.
  - ...the load has been cleaned.
  - ...the load has been rinsed thoroughly in clean water prior to sterilization to avoid any chemical residues left after cleaning contaminating the autoclave.
- This product is not a washing / cleaning machine.
- ...when placing instruments on trays, ensure that they are placed on the ribs of the tray (to help drainage), they must not touch each other and must not interfere with other trays or the chamber above.
  - ...only distilled, de-ionised or sterile water is used (as recommended).
  - ...the autoclave is in a draught free area.
  - ...the autoclave cooling fan outlet is at least 100mm. from any nearby surface. If the nearby surface is cold, then condensation may occur.
  - ...the autoclave is not installed in an enclosed cupboard space.
  - ...all other exterior product panels are 50mm. clear of adjoining surfaces to allow air circulation.
  - ...the door is left ajar when not in use.
  - ...you quote model/serial number (which are located inside the printer door) and date of purchase in all correspondence.
  - ...only qualified personnel service the autoclave.

It is recommended that a Chemical Indicator strip be used every cycle to verify that the sterilizing cycle is effective. If the Chemical Indicator strip fails to change colour repeat the cycle. If it still fails to change colour then arrange for a service.

### Do not....

- ...lose this handbook.
- ...add any chemicals whatsoever to the water.
- ...attempt to sterilize volatile substances, toxic materials or other unsuitable loads. Refer to your "Responsible Person" for advice.
- ...place the autoclave in direct sunlight.
- ...place the autoclave on heat sensitive surfaces.
- ...use inappropriate cleaning materials.
- ...drop or abuse the autoclave.
- ...use in areas of risk associated with flammable materials or gases.
- ...remove the casing or attempt to service or repair the autoclave.

## Routine Care & Maintenance.

### WARNING!

Disconnect the autoclave from the mains power supply before cleaning.

### Daily Maintenance

#### Gasket

THE GASKET MUST BE CLEANED ON A DAILY BASIS, BEFORE USING THE AUTOCLAVE.

Wipe exposed surface of the gasket and the surface of the vessel with warm soapy water using a lint free damp cloth.



Wipe both the gasket and the vessel again with water using a lint free damp cloth to remove any residual soap.

#### Gasket Replacement.

Should the gasket develop a persistent leak it should be removed, cleaned thoroughly in warm soapy water and shaken dry. Do not wipe with a cloth. The door gasket plate must also be cleaned.

If the leak persists you should obtain and fit a new gasket.

To remove the gasket, undo the two dome nuts in the centre of the gasket plate. Remove the plate/gasket assembly and then remove the gasket from the plate.

During re-assembly, place new sealing washers under the heads of the dome nuts.

Ensure that the entry port plug aligns with the hole in the cast lid.

DO NOT over-tighten the dome nuts as this may damage the thread.

#### Every 250 cycles.

Clean the autoclave using Autoclave cleaning kit (Part No. 289138A).

### WARNING!

Failure to perform these procedures may result in the unit showing UOD1 on the display (UOD1 indicates that the unit may have been contaminated and could fail to operate correctly).

#### Every 500 cycles.

Change the air filter situated at the front of the autoclave.



Gently pull out the filter, detach from the tubing and fit the replacement.

Push the filter and tube back into the hole.

#### Exterior surfaces (as required).

Exterior surfaces should be cleaned with warm soapy water using a damp cloth.

For persistent marks, use a gentle cream cleaner.

#### Fresh water tank / Wastewater container.

On a monthly basis, fully drain the water tank and leave overnight (use Autoclave cleaning kit Part No. 289138). Drain, then refill with fresh water. Repeat this operation twice more to remove any residue.

**Always use de-ionised, distilled or sterile water as recommended. NEVER USE TAP WATER.**

#### Routine Maintenance.

Every three months check the calibration – refer to the service manual.

Annually replace the water filters.

## Troubleshooting.

Should a fault occur a visual and audible indication would be given. The nature of the fault can be determined by reference to the fault guide below. The recovery sequence allows access to any instruments within the autoclave and is the first step when rectifying a fault mode.

User Message	Cause	Remedy.
UOD1 and UOD2	Contamination.	Conduct routine maintenance procedures. Replace gasket. If fault persists Engineer call-out required.
Low water LED (S4)	Insufficient water to run a cycle.	Press button (B) twice. Top up with water to mark (S3).
“door” illuminates on display (L2)	Cycle start button pressed whilst door is open or door micro-switch fault detected.	If door closed but door LED (D) not illuminated - push on door to see if LED can be illuminated. If door open, close door and try again. If fault occurs during a cycle – follow Recovery sequence “i”
01	Power failure during a cycle.	Recovery sequence “i” Check power supply – repeat the cycle.
b02	Sterilizing Temperature out of range.	Recovery sequence “i”. Clean gasket and chamber face then repeat the cycle. If fault persists Engineer call-out required.
d02	Probe difference out of range.	Recovery sequence “i”. Conduct routine maintenance procedures. Clean gasket and chamber face then repeat the cycle. If fault persists Engineer call-out required.
t02	Clock error.	Recovery sequence “i”. Check & reset the clock – repeat the cycle. If fault persists Engineer call-out required.
p02	Sterilizing Pressure out of range.	Recovery sequence “i”. Clean gasket and chamber face then repeat the cycle. If fault persists Engineer call-out required.
03	Air bleed has not been successful.	Recovery sequence “i”. Clean gasket and chamber face then repeat the cycle.
04	Vacuum failure.	Recovery sequence “i”. Clean gasket and chamber face then repeat the cycle.
05	Not applicable.	Not applicable.
06	Not applicable.	Not applicable.
07	Sensor fault – Boiler thermistor.	Recovery Sequence “iii” – Repeat cycle. If fault persists Engineer call-out required.
08	Sensor fault – Pressure transducer.	Recovery Sequence “ii” – Repeat cycle. If fault persists Engineer call-out required.
09	Not applicable.	Not applicable.
10	Water in the boiler.	Recovery Sequence “iii” – Repeat cycle.
11	Air filter fault.	Recovery sequence “i”. Replace air filter and try again. If fault persists Engineer call-out required.
12	Not applicable.	Not applicable.
13	Water fill time out.	Recovery sequence “i”. Drain water out of the fresh water tank and refill with de-ionised, distilled or sterile water. Repeat the cycle.
14	Sensor fault – Chamber probe.	Recovery Sequence “ii” – Repeat cycle. If fault persists Engineer call-out required.
15	System Leak.	Recovery Sequence “ii” – Clean gasket and chamber face then repeat the cycle. If fault persists Engineer call-out required.
16	Low Induced leak rate (NHS ONLY)	Seek advice from Responsible person.
17	Not applicable.	Not applicable.
UOD3	Vacuum failure in drying stage.	Recovery sequence “i”. Clean or change gasket. If fault persists Engineer call-out required.

**For Engineer Assistance Call the Autoclave Assured Help line  
01254 844118 / 117 /116 - 682622 – 692355 (24hr) email: aa@prestigemical.co.uk**

<b>Recovery sequence</b> (allows instruments to be removed from the unit).		
<b>Recovery Sequence “i”</b> Press button (B) Stabilize (no flashing or bleeping)  Press button (B) “Recover”	<b>Recovery Sequence “ii”</b> Press button (B) Stabilize (no flashing or bleeping)  NB: Cannot proceed. Switch off at mains supply. Service required.	<b>Recovery Sequence “iii”</b> Press button (B) Stabilize (no flashing or bleeping)  Press button (B) to enter “Ready Mode”
<p><b>The Recovery Sequence</b> (depending on where the fault occurs) will flush the water from the boiler and eventually complete the cycle with a continuous bleeping to indicate recovery is completed.</p> <p><b>Important.</b></p> <p>Before restarting a cycle, check that the mains plug is fully inserted into the mains outlet socket and the outlet is of the earthed/grounded type.</p> <p>Should all power be lost the door cannot be opened until power is restored.</p> <p>Should an internal power failure occur, the door cannot be opened until a service has been carried out.</p> <p>Should it be clear that an indicating device is suspect, a service will be required to correct the condition.</p> <p>Should a safety feature operate, unplug the unit and call for a service – do not attempt to correct the fault.</p> <p><b>Primary safety features:</b></p> <p>Two primary features have been fitted – a pressure release valve and a boiler over temperature safety cut out.</p>		

## Additional Information.

**Operator:** The person assigned to use the autoclave.

**Responsible Person:**

The person who is responsible for the management of the equipment, load assignment, care and maintenance. This person is also responsible for ensuring that all applicable Health & Safety Regulations are applied including those relating to the pressure vessel.

This person must verify that only suitably qualified persons undertake repair and maintenance work other than that described under "Routine Care and Maintenance" within this handbook.

**Qualified Person:**

A person who is qualified by training or experience to a recognised level in respect of the work to be undertaken.

**Service:** Calibration and maintenance as required.

**Manual Handling:**

Due to the weight of the unit two people are required when unpacking or moving the product.

**UNPACKING.**

When lifting the unit out of the box ensure there is one person on either side of the unit. Lift out of the box and place on the work surface.

**POSITIONING.**

Start lifting by holding the unit below the printer door. As clearance is gained, lift at the other corners. Place in position, and release in the reverse order to lifting. NOTE Always drain the water tank before moving. Before moving always allow 30 minutes after use for the unit to cool down.

**Cleaning Materials:**

- Mild washing up liquid.
- Non-abrasive cream cleaner.
- Disinfectant diluted in water.
- Autoclave Cleaning Kit 289138.

**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.

**Approvals:**

Approvals are all model specific. However, the following standards apply in whole or part:

- Medical Devices Directive (MDD 93/42/EEC)
- Electro Magnetic Compatibility Directive.
- European Sterilizer Standard (prEN13060)
- Pressure vessel to ASME Section 8 Div 1.
- BS EN 61010 Parts 1 / 2
- UL/CSA 3101

**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 and may adversely affect the performance or safety of the unit.

**Accessories:**

**Printer (Part No.289083):**

Optional and can be fitted by the user.

**Printer roll (Part No.279001):**

Replacement roll for optional printer.

**Instrument Trays:**

282mm. Tray (Part No.279006).

430mm. Tray (Part No.279005).

**Pouch Rack (Part No.279238):**

Three-tray capacity.

**Tray / Rack lifter (Part No.279007):**

For the removal of trays or racks.

**Sealing gasket (Part No.279011):**

Gasket for a 250mm. diameter chamber.

**Waste Water Container (Part No.274210)**

Container for single use water.

**Test Pack (Part No.284230):**

For use when performing test cycles.

**Autoclave cleaning kit (Part No.289138):**

For cleaning the autoclave to ensure continued operation.

**Air filter (Part No.294105A):**

Replacement air filter.

**Warranty:**

Prestige Medical will, in the first twelve 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 will not be 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 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.

The Prestige Medical policy is one of continuous development and as such reserves the right to change the specification of the models and items illustrated and described herein at any time.

## Specifications.

Chamber Capacities	16litre	22litre
Overall product width	480mm.	480mm.
Overall product height	410mm.	410mm.
Overall product length	440mm.	500mm.
Unpacked weight	42Kg. (Max)	43Kg. (Max)
Chamber Diameter	250mm.	250mm.
Chamber lengths	330mm.	430mm.
Tray/rack capacity/length NB. Configuration is model specific	6@282mm.	6@430mm.
Max. Instrument length	300mm.	450mm.
Max. load non-vacuum	6 kilo	6 kilo
Max. load vacuum	6 kilo (un-pouched) 2 kilo (pouched)	6 kilo (un-pouched) 2 kilo (pouched)
*Pack size 150x120x100mm.	1 kilo (porous)*	1 kilo (porous)*
Sterilizing temp/time.	134°C/4mins. 134°C/18mins. 121°C/15½mins.	134°C/4mins. 134°C/18mins. 121°C/15½mins.
Operating pressure (Minimum)	2.05bar.	2.05bar.
Voltage/Wattage	230v/240v. /2200W	230v/240v. /2200W
Frequency	50 – 60 Hz.	50 – 60 Hz.

NB. The overall cycle time will increase as the mains supply voltage decreases.

### Chamber component materials.

Vessel: Stainless Steel – 304 –S15  
 Boiler: Aluminium – LM25  
 Lid: Aluminium – SB 26 ANSI 356.0 T6  
 Door Plate: Stainless Steel – 304 –S15

**Fuses:** Located at the rear of the unit under the access panel containing the cord set.



16litre access panel.



22litre access panel.

### Temperature cut out:

Bi-metallic type rated at 170°C. with manual reset.

### Pressure Release Valve:

Operates at 2.76bar. Accumulation is <10%.

### Maximum single fault temperature:

141.5°C determined by the pressure release valve.

**Over Voltage category:** Group II

**Pollution Degree:** Group II

**Insulation:** Class I.

### Environmental conditions:

Indoor use at an altitude of up to 2,000m.  
 Ambient temperature range +10°C to +40°C  
 Maximum relative humidity 80% for temperatures up to 30°C,  
 decreasing linearly to 50% at 40°C.  
 Mains supply voltage range 207 to 254volts.

### Safety Shutdown:

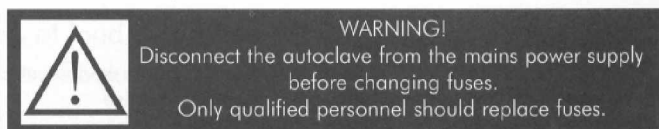
Refer to “Temperature cut out”. A qualified person should only reset this.

### Storage:

When leaving the unit standing idle for any length of time, drain the water tank especially if there is a possibility of the room temperature dropping below freezing point.

### Packaging:

Packing materials used have been selected for ease of recycling. Please ensure you use the correct disposal system for disposal of packing materials.



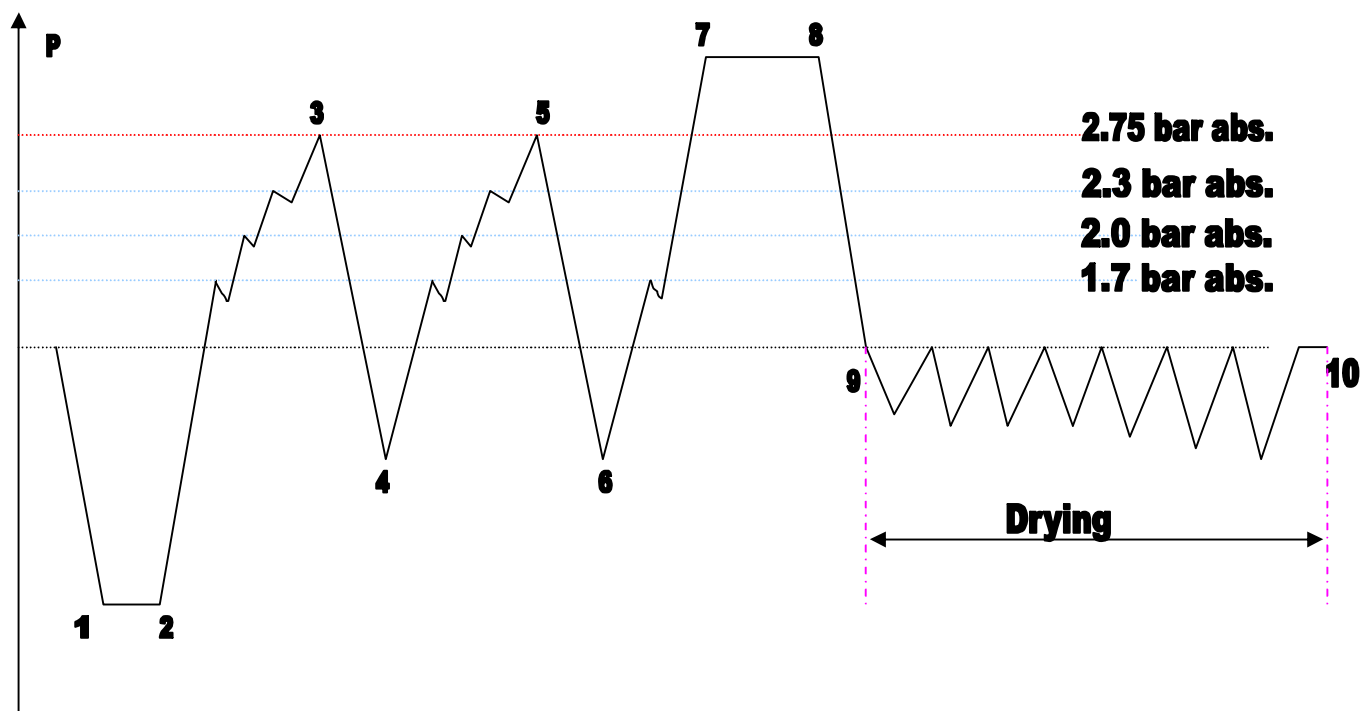
**Fuse Type:** M12A 32x6.3mm. Ceramic sand filled (230v)  
 Mains plug top fuse (user replaceable) F13A to BS1362 UK only.

**Rating:** All products are rated for intermittent use, continuously.

**Heater:** Cast into the boiler.


## Cycle Profiles.

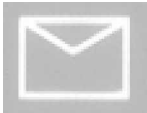
### “Type B” Pressure profile.



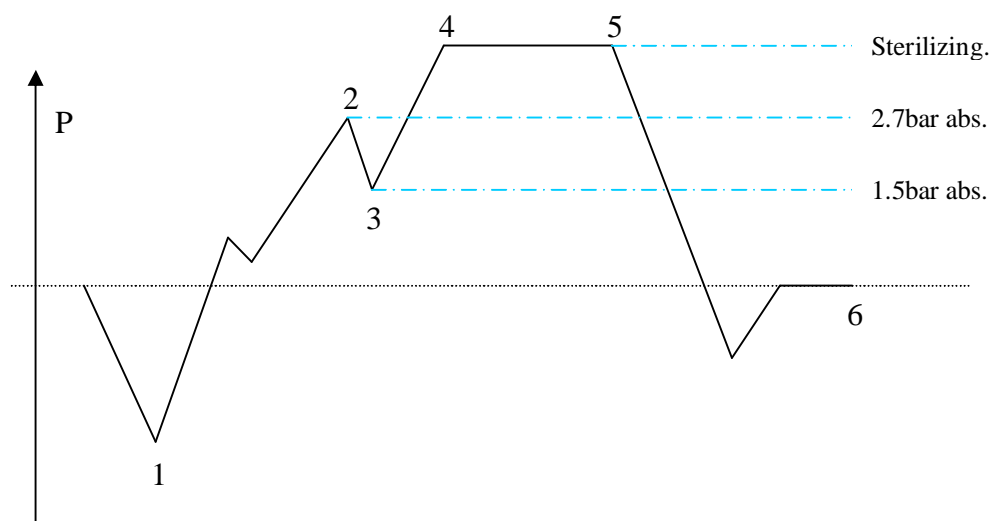
The above profile is for the  134°C /4min Vacuum cycle.

The only difference between this and the  134°C /18min. Vacuum cycle is the sterilizing hold time. Stage 7 to 8.


The 134°C /4min. Steam penetration test  is identical to the above profile but without the drying (Stage 9 to 10).

Programme Step	Time m:s	Temperature (Measured Value)	Pressure (Measured Value)	Cycle identification.
<b>START</b>	00:00			
1	02:00 Typical		Point 1 340 mbar abs.	
1 to 2	02:00 Typical			
2 to 3	08:00 Typical		Point 3 2.75 bar abs.	
3 to 4	07:30 Typical		Point 4 500 mbar abs.	
4 to 5	05:30 Typical		Point 5 2.75 bar abs.	
5 to 6	07:30 Typical		Point 6 500 mbar abs.	
6 to 7	05:30 Typical		Point 7 3.04 bar abs.	
7 to 8	04:00 Fixed	134 to 137°C.	3.04 bar abs. to 3.32 bar abs.	
8 to 9	01:30 Typical.			
9 to 10	30:00 Fixed.			
<b>END</b>	73:30 Typical			

## “Type S” Pressure profile.

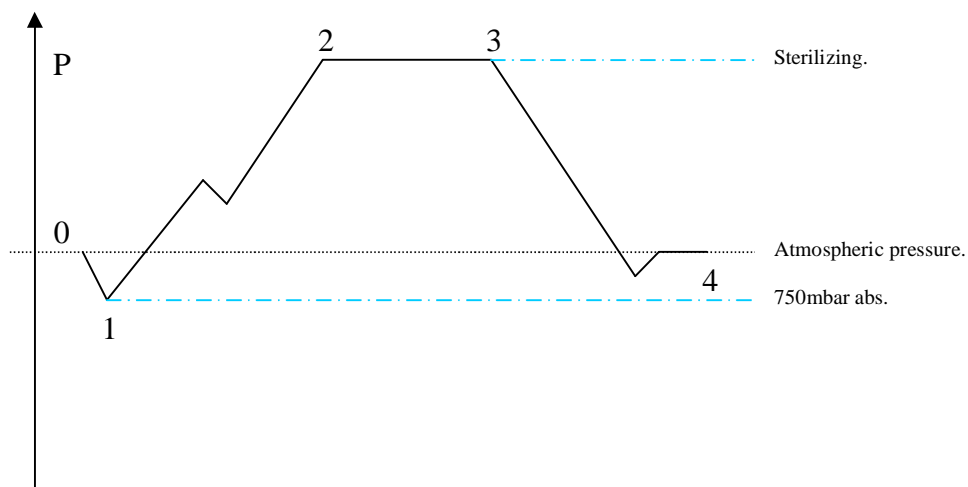


The above profile is for the  134°C /4min. Rapid vacuum cycle.



Programme Step	Time m:s	Temperature (Measured Value)	Pressure (Measured Value)	Cycle Identification.
<b>START</b>	00:00			
1	02:00 Typical		Point 1 340 mbar abs.	
1 to 2	08:00 Typical		Point 2 2.7bar abs.	
2 to 3	01:00 Typical		Point 3 1.5bar abs.	
3 to 4	02:00 Typical		Point 4 3.04 bar abs.	
4 to 5	04:00 Fixed.	134 to 137°C.	3.04 bar abs. to 3.32 bar abs.	
5 to 6	04:30 Typical			
<b>END</b>	21:30 Typical.			



## “Non Vacuum” Pressure profile.



The profile above is for both these cycles   the only difference being in sterilizing (Stage 2 to 3).

Programme Step	Time m:s	Temperature (Measured Value)	Pressure (Measured Value)	Cycle Identification.
<b>START</b>	<b>00:00</b>			 Figures in bold.   Figures in italics.
1	<b>00:30</b> & <i>00:30</i> Typical		Point 1 <i>750-mbar abs. in both cases.</i>	
1 to 2	<b>08:00</b> & <i>06:00</i> Typical		Point 2 <i>3.04 bar abs. &amp; 2.05 bar abs.</i>	
2 to 3	<b>04:00</b> & <i>15:30</i> Fixed	<b>134.0 to 137.0°C.</b> <i>121.0 to 124.0°C.</i>	<b>3.04 bar abs. to 3.32 bar abs.</b> <i>2.05 bar abs. to 2.25 bar abs.</i>	
3 to 4	<b>03:30</b> & <i>03:30</i> Typical			
<b>END</b>	<b>16:00</b> & <i>25:30</i> Typical			

**NB. THE CYCLE PROFILES SHOWN ON THIS AND EARLIER PAGES ARE FOR THE 16 LITRE AUTOCLAVE.**  
**22 LITRE AUTOCLAVE TIMES WILL BE MARGINALLY LONGER.**

**For Engineer Assistance Call the Autoclave Assured Helpline**  
**01254 844118/117/116 - 682622 - 692355 (24hr) email: aa@prestigemedical.co.uk**

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

**Model no.**

**Serial no.**

**Vessel Rating Plate (Duplicate)**

**Date of Purchase / Supplier**



ISO 9001  
No. FM 31988



0086

EN 46001 Cert. No. 1354



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