

Instruction Manual for the Revolutionary Science RS-SC-101 Saniclave



REVOLUTIONARY SCIENCE

Manufacturer of Precision Laboratory Equipment

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NOTE: This manual contains important information, safeguards and operating instructions for the operation of the REVOLUTIONARY SCIENCE model RS-SC-101 Saniclave by Alternative Pioneering Research & Development, Inc. (APR&D, Inc.)

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REVOLUTIONARY SCIENCE

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Introduction

Thank you for purchasing the Revolutionary Science RS-SC-101 Saniclave. We are confident that when used correctly, our autoclave will provide years of reliable service in your clinic, lab, or classroom. We have made every effort to use high quality, durable parts to deliver the performance expected of instruments costing 2 to 3 times as much.

Please let us know what you think of our products, positive or negative, so we can continue to enhance and improve our products in the future.

Sincerely,

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To maximize the use of the Saniclave, please follow the recommendations in this short list before using:

1. Examine carton and contents for possible damage to the product caused during shipping. If damage is present contact carrier at once. Failure to do so immediately may release the carrier from any liability of damage.
2. Fill out the checklist (page 9 of instruction manual). If something is missing please contact Revolutionary Science.
3. Carefully read the instruction manual before operating Saniclave.
4. Fill out warranty registration card and mail it to Revolutionary Science.

Recommended Safeguards

1. NEVER USE ON HUMANS—THIS AUTOCLAVE IS NOT FDA APPROVED AND THEREFORE, IS NOT INTENDED TO BE USED IN THE FOLLOWING INDUSTRIES: TATTOO, BODY ART, BEAUTY, DENTAL, SURGICAL, ETC.
2. Never attempt to disassemble or modify the Saniclave.
3. Allow the pressure regulator to sit freely and unblocked when in operation.
4. Never leave operating Saniclave unattended.
5. Do not block vent tube (located on underside of cover directly below the pressure regulator).
6. Do not touch hot surfaces. Use handles.
7. Disconnect from outlet when not in use and before cleaning the appliance.
8. Never operate Saniclave with a damaged cord or plug or after the appliance malfunctions or has been damaged in any manner.
9. Accessory attachments not recommended by Revolutionary Science may cause fire, electrical shock or injury.
10. Do not place the Saniclave on or near a hot gas or electric burner or other heating source.
11. Do not use Saniclave for other than intended use.
12. The cover must be placed in position and properly closed before operating.
13. Never allow Saniclave to boil dry due to insufficient water.
14. Always check pressure release device and space around safety plug for clogging. Make sure these areas are clean before operating.
15. Do not attempt to force the cover open or change pressure settings during the sterilization cycle.
16. Before unplugging, always turn off using the OFF switch.
17. Do not attempt to force the visual pressure indicator (VPI) down when the Saniclave is under pressure.

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18. ONLY use distilled water and NEVER fill chamber with more or less than the recommended amount of distilled water.
19. Do not remove pressure regulator from cover until the chamber has depressurized.
20. NEVER attempt to modify the plug to fit an outlet other than the required 3-slot outlet. The enclosed 3 prong plug is equipped with a grounded type 3 wire to further ensure the safe operation of your autoclave.
21. NEVER immerse electric base, cord, or plug in water.
22. ALWAYS keep face and hands away from the steam release valve. Serious injuries could occur if precautions are not taken.
23. NEVER operate on wet surfaces.
24. NEVER allow the power cord to contact hot surfaces. Any slack in the cord should be wrapped up and held together with a twisty tie.
25. Only sterilize instruments that are autoclavable. Contact Revolutionary Science if unsure.

Operating Instructions

PREPARATION FOR STERILIZATION:

1. Never use on humans—this sterilizer is not FDA approved and therefore, not intended to be used in the following industries: tattoo, body art, beauty, dental, surgical, etc.
2. Wash instruments of residue after use and before sterilization. We recommend that the instruments be washed in an ultrasonic cleaner using appropriate detergent solutions.
3. Follow instrument manufacturer's instructions for correct cleaning and lubricating procedures.
4. All instruments must be disassembled or in open position and isolated from adjacent instruments before sterilization. It is important that all instrument surfaces are exposed to steam penetration.
5. Use a sterilization indicator strip with each set of instruments being autoclaved.
6. Do not overload basket, this could reduce the sterilizer's performance.
7. Run a biological spore test (*Geo bacillus stearothermophilus*) weekly, at least, to confirm proper sterilization.
8. Wrapped instruments must be in wrapping that promotes drying for example non-woven autoclave paper or autoclave bags.

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STERILIZATION:

1. For a standard 30 minute cycle, fill the chamber with 1300mL of distilled water (or to the 45 fl oz fill line).

Caution: DO NOT ATTEMPT TO OPERATE THE SANICLAVE WITH INSUFFICIENT WATER.

Doing so may cause damage.

2. Place trivet in bottom of chamber. The purpose of this device is to hold the basket above the water. **The trivet must be used or water will contact basket thus compromising the sterility of your instruments.**

3. Place unwrapped, non-lumened instruments to be autoclaved into the basket. Hinged and mated surfaces should be disassembled if possible.

4. Insert basket inside chamber. Assure that the basket is not submerged or partially submerged in water!

5. Inspect the cover so that the vent tube and pressure regulator are not blocked.

6. Be sure that the inner portion of the cover is also clean and clear, ensuring a secure fit.

7. Check the gasket inside the cover, to ensure a clean, tight fit.

8. Place the cover on the chamber, ensuring that the arrow on the cover is aligned with the left chamber handle.

9. Press the cover down snugly and turn the cover handle clockwise until it can no longer turn. (At this point, the cover handle should be in line with both chamber handles.)

10. Place the pressure regulator on the vent tube and push down lightly, you should hear it click into place.

11. Insert the plug of the cord into the wall outlet. **Never modify the plug to make it fit, as the plug will only fit in one way.**

12. The 3 digit LED indicator will turn on and appear as “000.”

13. Press “START” to begin. The Saniclave will automatically progress through the following modes:

- Preheat mode; display reads “Ph”
- Sterilizing mode; display shows current temperature during cycle. By pressing and holding 'SET' button, display will show the time left.
- Cool down mode; display reads “CC”

14. The visual pressure indicator (VPI) will rise during preheat mode (indicating pressure building inside the chamber).

15. Turn off by using the power switch.

16. The VPI will drop after all the steam has escaped (during cool down mode). NEVER ASSUME THAT THE STEAM HAS ESCAPED IF THE VPI HAS NOT DROPPED.

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Storage and Maintenance

1. When you have completed the sterilization cycle, turn off Saniclave by pressing the OFF switch, unplug your Saniclave, and allow it to cool to room temperature. Remove the water from chamber.
2. When your autoclave is cool you may wipe both the exterior of the electric base and the interior and exterior of the chamber. Cleaning with organic solvents like thinner or benzene will damage the surfaces of the plastic base.
3. After cleaning the Saniclave you may towel dry both the exterior of the electric base and the interior and exterior of the chamber.
4. Never immerse the electric base in water.
5. When in storage, your Saniclave should never be plugged in.
- 6. Your Saniclave does not require any special storage conditions.**

Saniclave Specifications

Power requirements:	100-120 VAC 50-60 HZ, 1250 watts, grounded cord
Net weight:	12 lb.
Dimensions:	27.9cm wide x 34.3cm deep x 33cm tall 11" wide x 13.5" deep x 13" tall
Pressure:	15 psi
Internal Temperature:	121°C
Complete Cycle:	30 minutes
Capacity:	10.4 Liters, 22.9cm diameter x 25.4cm tall 9" diameter x 10" tall

Contact Us

Mailing address:	Toll Free: (800) 775-7942
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Registration

For your future reference and to expedite answers to your questions, please complete the following information:

Date Purchased: _____

Serial Number: _____

Model Number: _____

Purchased From: _____

Full Two Year Warranty

Your REVOLUTIONARY SCIENCE RS-SC-101 Saniclave is warranted to be free from defects of material or workmanship under normal use for a period of two years from date of purchase. If your RS-SC-101 Saniclave proves to be defective within this warranty period, Revolutionary Science will repair or replace your unit at our option. This warranty will be void if malfunction is caused by accident, misuse, or negligence, including tampering, abuse, or damage in transit. This warranty excludes any relief for incidental or consequential damages.

To validate this warranty, be sure to complete and return the Warranty Registration Card, found on page 8.

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Please fill out this page, or a copy of it, and send it to the address below to validate your warranty.

Warranty Registration Card for the
REVOLUTIONARY SCIENCE RS-SC-101 Saniclave Steam Autoclave
(Please Print)

Date Purchased: _____ Serial Number: _____

Purchased From: _____

Name of Purchaser: _____

Company School Individual (Please check one)

Name of institution: _____

Department: _____

Address: _____

Intended use: _____

Where did you hear of our product?: _____

Comments: _____

Mail to: Revolutionary Science
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Troubleshooting

Symptom	Fault	Action
Stays in preheat mode for about 15 minutes then switches to "Lo"	Unit is not reaching sterilization temperature of 121°C	Check to make sure the cover is closed properly and that the pressure
Display will not advance from "00" to "Ph" after the Start button is pressed	Insufficient water	Insert 1300mL of distilled water into the chamber
Display screen does not light up	Power switch may be off	Inspect power switch in back
	Power cord may be disconnected	Inspect power cord connection
Display reads "Oht"	Overheated	Contact Revolutionary Science

If symptoms persist, please contact Revolutionary Science Support Center at support@revsci.com or call 651-674-3112.

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