

Instruction Manual for the Revolutionary Science RS-SP-100

Speed Pro Bath



REVOLUTIONARY SCIENCE

Manufacturer of Precision Laboratory Equipment

Table of Contents

Introduction	2
Recommended Safeguards	3
Operating Instructions	4
Care and Maintenance	4
Calibration	5
Specifications	6
Contact Us	6
Registration	7
Warranty	7
Warranty Registration Card	8
Checklist	9
Notes and Service Record	9
Troubleshooting	10

NOTE: This manual contains important information, safeguards and operating instructions for the operation of the REVOLUTIONARY SCIENCE model RS-SP-100 Speed Pro Bath by Alternative Pioneering Research & Development, Inc. (APR&D, Inc.)

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REVOLUTIONARY SCIENCE

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E-mail: support@revsci.com
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Introduction

Thank you for purchasing the Revolutionary Science RS-SP-100 Speed Pro Bath. We are confident that when used correctly, our water bath will provide years of reliable service in your lab or classroom. We have made every effort to use high quality, durable parts to deliver the performance expected of instruments costing 3 to 4 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 this Speed Pro Bath, please complete this short list before using the RS-SP-100:

1. Examine carton and packaging for possible damage caused during shipping. If damage is present contact carrier at once.
2. Fill out the checklist (page 9 of instruction manual).
3. Carefully read the instruction manual.
4. Fill out warranty registration card and mail it to Revolutionary Science.

Recommended Safeguards

1. Never attempt to move the Speed Pro Bath when water in chamber is hot, doing so could cause severe burns. Wait until water in chamber is cool to the touch.
2. Never attempt to disassemble or modify the RS-SP-100.
3. Never operate bath when chamber is dry. Operating the bath with not enough water (less than 1 inch) will cause the low water detection alarm to sound.
4. Use only deionized water.
5. Keeping the clear polycarbonate cover in place improves accuracy and prevents water loss due to evaporation.
6. Do not operate on wet surfaces.
7. Make sure the power cord is clear of hot surfaces and other hazards. We recommend any slack in the cord to be wrapped up and held together with a twisty tie.
8. Do not use around flammables, combustible materials, or explosives.
9. Keep vents clear from other equipment and avoid setting unit on soft, fluffy surfaces. This will allow for effective air flow.
10. Do not heat any substances that may release fumes considered to be toxic.
11. Plug the RS-SP-100 power cord into a grounded electrical outlet only of the appropriate voltage.
12. Like all heating and cooling equipment their efficiency depends upon the external or ambient temperature. If the ambient temperature decreases, the maximum efficiency may decrease.

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Operating Instructions

(1) PLACEMENT:

Place unit on a stable, hard surface away from the edge of the counter and moving equipment.

(2) CONNECTING THE POWER:

Plug the power cord to your RS-SP-100 into a grounded electrical outlet of the appropriate voltage. Make sure the cord is routed safely away from mechanical hazards and hot surfaces. Avoid routing the cord where others may trip on it or snag it.

(3) TO OPERATE THE RS-SP-100:

Turn the water bath on or off by pushing the on/off button. Default display is actual chamber temperature. To increase water temperature, press and hold the arrow button pointed up for 2+ seconds. To decrease water temperature, press and hold the arrow button pointed down for 2+ seconds. To display current set temperature, press either button.

(4) LOW WATER DETECTION SYSTEM:

An alarm will sound if the water level is too low (less than 1 inch deep). Simply add more water until the alarm stops.

Care and Maintenance

Your water bath should be cleaned periodically to ensure optimal performance, cleanliness, and to eliminate contamination. Clean your REVOLUTIONARY SCIENCE RS-SP-100 only when it is not plugged in. Scrape residue from the chamber walls. Follow through with a cloth soaked in water and bleach or mild detergent, wipe the inside and outside of the unit. Then let air dry or wipe with a dry cloth.

Recommended Room and Storage Conditions:

- Do not store your water bath in direct sunlight, or in dusty or poorly ventilated areas.
- Do not store in a cold or moist room for periods of time.
- Never immerse your water bath in water.

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User Calibration Instructions

Setup:

Set temperature on Speed Pro Bath and insert thermocouple or thermometer. Place cover and check accuracy of temperature one hour later. If temperature is off by more than 0.5°C, record Speed Pro Bath display reading and thermometer reading and calibrate accordingly, following these three simple steps.

1. Press and hold up and down buttons simultaneously. Display should read “CAL.”
2. Then press up arrow if you desire to increase display reading or down arrow if you wish to decrease display reading.
3. Then wait for three seconds for the display to return to the temperature reading.

NOTE: Speed Pro Bath will maintain adjusted calibration if it is turned off or restarted. Calibration may be adjusted anytime.

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Speed Pro Bath Specifications

Power Requirements:	120-240 VAC 60 HZ, 1250 watts, grounded cord
Net weight:	9 lb.
Dimensions:	38.1cm wide x 30.5cm deep x 25.4cm tall 15" wide x 12" deep x 10" tall
Maximum Temperature:	99.9°C
Precision:	Temperature uniformity $\pm 0.4^{\circ}\text{C}^*$
Display:	3 digit, 0.1°C increments
Capacity:	7.5 Liters, 22.9cm diameter x 17.8cm tall 9" diameter x 7" tall

*Measured under controlled laboratory conditions.

Contact Us

Mailing address:	Toll Free: (800) 775-7942
Revolutionary Science	Fax: (775) 218-7015
17319 Lake Blvd.	E-mail: support@revsci.com
Shafer, MN 55974 USA	Web site: www.revsci.com

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-SP-100 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-SP-100 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. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights; you may also have other rights, which may vary from state to state. Your RS-SP-100 comes with several built in safety features. Any attempt to interfere with the operation of these features makes this warranty null and void.

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-SP-100 Speed Pro Bath

(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
17319 Lake Blvd., Shafer, MN 55074

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Troubleshooting

Symptom	Fault	Action
Temperature on the display is higher than the actual	Speedpro Bath may be in need of calibration	See calibrations instructions in the manual
Temperature on the display is lower than the actual	Speedpro Bath may be in need of calibration	See calibrations instructions in the manual
Display screen does not turn on	Power button must be pressed	Inspect power switch in back
	Power cord may be disconnected	Inspect power cord connection
Unit does not turn off when the ON/OFF button is pressed	The button was not held down long enough	When powering down the unit, push and hold the ON/OFF button for about five seconds
Display reads “Lo” and alarm sounds	Insufficient water	Fill with at least one gallon of distilled water
Water does not get warm or hot	Possible defective components	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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