



REV SCI
REVOLUTIONARY SCIENCE

Instruction Manual
INCUFRIIDGE 300 STANDARD LINE



Instruction Manual for the Revolutionary Science RS-IF-328S INCUFRIDGE

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NOTE: This manual contains important information, safeguards and operating instructions for the operation of the REVOLUTIONARY SCIENCE model RS-IF-328 Standard IncuFridge by Alternative Pioneering Research & Development, Inc. (APR&D, Inc.)

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Thank you for purchasing the Revolutionary Science Standard IncuFridge. We're confident that our IncuFridge will provide years of reliable service. We have made every effort to use high quality, durable parts to deliver the performance expected of instruments costing significantly more.

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,

REVOLUTIONARY SCIENCE

First Steps

1. Examine carton and packaging for possible damage 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 (pg. 9 of instruction manual). If something is missing, please contact Revolutionary Science.
3. Carefully read the instruction manual.
4. Visit the product registration webpage provided on pg. 8 by scanning the QR code or entering the URL manually and complete the product registration.

Storage Conditions

Do not store your Revolutionary Science IncuFridge in direct sunlight, or in dusty or poorly ventilated areas.

Do not store in a cold or moist room for extended periods of time.

Never immerse your Revolutionary Science IncuFridge in water.

Recommended Safeguards

1. Never attempt to disassemble or modify the IncuFridge.
2. Do not clean any parts with solvents.
3. Do not drop.
4. Keep the door closed for effective temperature stabilization.
5. Do not operate on wet surfaces.
6. 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 twist or zip tie.
7. Avoid spills of any kind on or in the unit. They may contaminate or corrode the surfaces.
8. Do not use around flammables, combustible materials, or explosives.
9. Keep back vents clear (at least two inches in every direction) from other equipment and avoid setting unit on unstable surfaces. This will allow for effective air convection.
10. Do not heat any substances that may release fumes considered to be toxic.
11. Avoid placing samples directly on floor of chamber, instead use shelf to ensure even temperature distribution.
12. Like all heating and cooling equipment their efficiency depends upon the external or ambient temperature. This product has a maximum efficiency at an ambient

temperature of 21°C, provided that all other safeguards are met. If the ambient temperature increases or decreases, the maximum efficiency will decrease.

Care and Maintenance

Your IncuFridge should be cleaned periodically to ensure optimal performance and eliminate contamination. Clean your Revolutionary Science IncuFridge only when it is not plugged in. Using a soft cloth soaked in water and a mild detergent and wipe the inside and outside of the unit. Then let air dry or wipe with a dry cloth. Remove dust accumulation from the heat sinks and fans (most notably the exterior fan in the back) with a gentle air compressor or a brush. Be careful not to scratch surfaces with abrasive cleaners or dirty cloths.

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Operating Instructions

Placement

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

Loading

Open the IncuFridge by gently pulling outward (away from the unit) on the left side door edge. With the door open and shelves properly inserted, load your samples leaving adequate space between samples for proper air circulation. Avoid placing samples directly on floor of chamber, instead use the shelf to ensure even temperature distribution.

Connecting the Power

Insert power cord into an outlet designed to provide a nominal voltage of 120VAC. Make sure the power cord is clear of hot surfaces and other hazards. Any slack in the cord should be wrapped up and held together with a twist or zip tie.

Setting the Temperature

The default display is the actual chamber temperature. To increase chamber temperature, press and hold the up-arrow button for 2+ seconds. To decrease chamber temperature, press and hold the down-arrow button 2+ seconds. To display current set temperature, press either button briefly.

Temperature Sensor Calibration

Set your desired temperature on IncuFridge and insert a calibrated thermocouple or thermometer closest to the geometric center of the chamber. Close the door and check IncuFridge display temperature accuracy after 1 hour. If the temperature is off by more than 0.5°C, record the IncuFridge display and thermometer readings and calibrate by following these three simple steps:

1. Press up and down buttons simultaneously. Display should read 'CAL.'
2. After 'CAL' times out a new number will display. This is the calibration off-set number. Press the up-arrow if you desire to increase the temperature on the display reading or the down-arrow if you wish to decrease the temperature on the display.
3. Wait three seconds for the display to return to the temperature reading.

Note: The IncuFridge will maintain adjusted calibration if it is turned off or restarted. Calibration may be adjusted anytime.

Temperature Uniformity

The temperature at geometric extremes (within an inch or two from the inside of the door, ceiling, fan, walls, etc.) may not match the display value.

For best results, it is recommended to place specimens and samples on the trays, and if possible, close to the chamber enter.

IncuFridge Specifications

Model No.:	RS-IF-328S
Precision:	±0.1°C (at 37°C)
Uniformity:	±1.0°C (at 37°C)
Display:	3 digits, 0.1°C resolution
Controller:	Digital microcomputer
Power Requirements:	100-120VAC, 50-60 Hz, 120 W, 12 VDC
Net Weight:	39 lb.
Outside Dimensions:	15.25" wide x 23.25" deep x 16.75" tall
Inside Dimensions:	12" wide x 14" deep x 10.125" tall
Capacity:	28L (1 ft ³)
Temperature Range:	15°C to 60°C (19°C - 25°C ambient)
Warranty:	2-year, repair or replacement

CONTACT US

Revolutionary Science
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Fax: (775) 218-7015
E-mail: support@revsci.com
Web site: www.revsci.com

Full Two-Year Warranty

Your Revolutionary Science IncuFridge is warranted to be free from defects of material or workmanship under normal use for a period of two years from shipping date. If your IncuFridge 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-IF-328S 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 the product registration by visiting the website found on pg. 8.

Limitation of Liability

In no event will seller be liable for any consequential, indirect, exemplary, special, or incidental damages, including any lost profits, arising from or relating to the services even if seller has been advised of the possibility of such damages. Seller's total cumulative liability in connection with the services, whether in contract or tort or otherwise, will not exceed the fees paid for the services. One or more claims will not enlarge this limit.

Product Registration

Please visit the registration webpage by scanning the QR code or entering it in manually to register your Revolutionary Science IncuFridge.



<https://www.revsci.com/pages/product-registration-and-feedback>

Checklist

Before packaging material is discarded, please make sure all parts are accounted for:

IncuFridge

1 Shelf

Notes, Service Record, etc.

TROUBLESHOOTING

Symptom	Cause	Action
Temperature on the display is higher than the actual	IncuFridge may be in need of calibration or the Celsius / Fahrenheit setting is incorrect.	See calibration instructions in the manual. The IncuFridge Standard only displays Celsius
Temperature on the display is lower than the actual	IncuFridge may be in need of calibration or the Celsius / Fahrenheit setting is incorrect.	See calibration instructions in the manual. The IncuFridge Standard only displays Celsius
Display screen does not turn on	Power cord may be disconnected	Inspect all power supply conditions
Fans buzz during operation	Something may be caught in the fan	Turn off IncuFridge and inspect internal and external fans. Carefully remove foreign objects if any are found
Chamber temperature does not get high enough or cool enough.	Fans or heat sinks may be obstructed with dust or too close to the wall The room temperature may be too cold or too warm to attain cold or heat setting.	Check the fans. It is likely that the fan in the back is too close to the wall or it is dirty and proper venting cannot occur. The room temperature should be 21C or below, in order to achieve the coldest temperature settings in the chamber. The room temperature should be 21C or above in order to achieve the highest set temperatures in the chamber.
Temperature stays at ambient and does not heat or cool	Possible defective components	Contact Revolutionary Science
Neither fan is operational	Possible defective components	Contact Revolutionary Science

If symptoms persist, please contact Revolutionary Science Support Center at support@revsci.com or call (800) 775-7942.

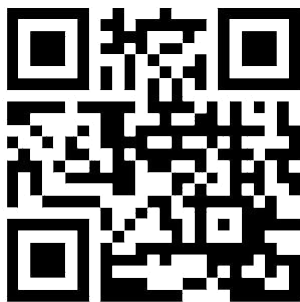


TROUBLESHOOTING

Please visit the Revolutionary Science troubleshooting webpage by scanning the QR code or entering it in manually to view instructional videos covering potential IncuFridge issues and their solutions.



<https://www.revsci.com/pages/troubleshooting>



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