

iSpring WSP100SL-ARJ-BP

iSpring WSP100SL-ARJ-BP Whole House Spin Down Sediment Water Filter

Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your iSpring WSP100SL-ARJ-BP Whole House Spin Down Sediment Water Filter. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product. Retain this manual for future reference.

SAFETY INFORMATION

Observe all safety warnings and precautions to prevent injury or property damage. This filter is designed for use with potable water only. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

- Always turn off the main water supply before installation or maintenance.
- Relieve water pressure in the system before opening the filter housing.
- Ensure all connections are secure to prevent leaks.
- Do not expose the filter to freezing temperatures.
- Keep out of reach of children.

PRODUCT OVERVIEW

The iSpring WSP100SL-ARJ-BP is a high-capacity whole house spin down sediment filter designed to protect your plumbing and appliances from sediment, dirt, rust, and sand. It features an integrated Siliphos add-on for scale and corrosion prevention, a 4-mode bypass valve, and an automatic flushing module for convenient maintenance.

Key Features

- **NSF/ANSI 372 Certified:** Certified lead-free, ensuring safer water. For more information, visit [NSF International](#).
- **Siliphos Add-on:** Helps prevent scale buildup and corrosion, extending the lifespan of plumbing fixtures and water-using appliances.
- **4-Mode Bypass Valve:** Offers Filtration, Shut-off, Bypass, and Backwash modes for flexible operation and simplified maintenance.
- **Jumbo Size & High Flow Rate:** Boasts a 1-gallon capacity, significantly larger than standard sediment filters, and a

high flow rate of 25 GPM, suitable for challenging well water conditions.

- **Auto Flushing Module:** Features a touch-screen interface for automatic, semi-automatic, or manual flushing, reducing routine maintenance effort.
- **Backwashing Feature:** Effectively dislodges and expels trapped sediment from the filter mesh, minimizing the need for manual cleaning.
- **Contaminant Removal:** Utilizes a 100-micron filter screen to remove up to 99% of large particulates such as sediments, dirt, rust, sand, and other water pollutants.
- **Durable Construction:** Crafted from 316L food-grade stainless steel for the filter mesh and an explosion-proof transparent housing for visibility and durability.

Components



Figure 1: Main components of the iSpring WSP100SL-ARJ-BP filter, including the filter unit, Siliphos cartridge, and housing wrench.

UPGRADED MODEL

- ✓ Upgraded Size
- ✓ 4-Way Ball Valve
- ✓ Auto-flushing Module
- ✓ Siliphos



WSP50 Series
5 oz



WSPSL-ARJ-BP Series
110 oz

Figure 2: Size comparison between the WSP50 series and the larger WSPSL-ARJ-BP series, highlighting upgraded features.

BUILT-IN 4-WAY VALVE

Easier Access for Service, Maintenance, and Filter Replacement

Top View



Valve Position

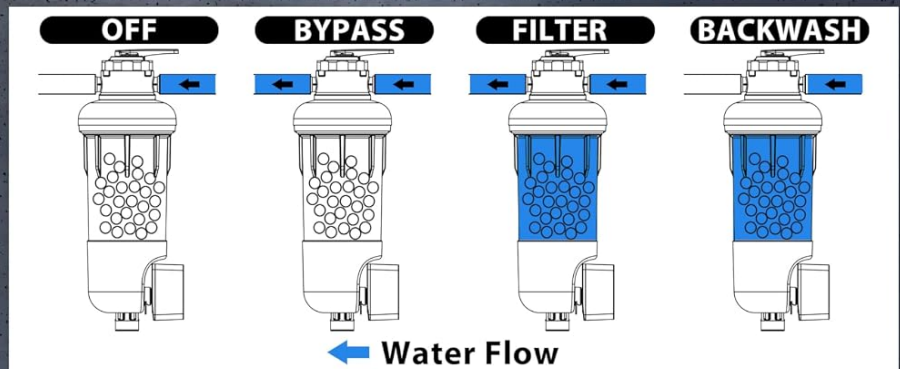


Figure 3: Illustration of the built-in 4-way valve, demonstrating its different operational modes for water flow control.

AUTO FLUSHING MODULE

Different Flushing Modes For Different Water Usage Needs

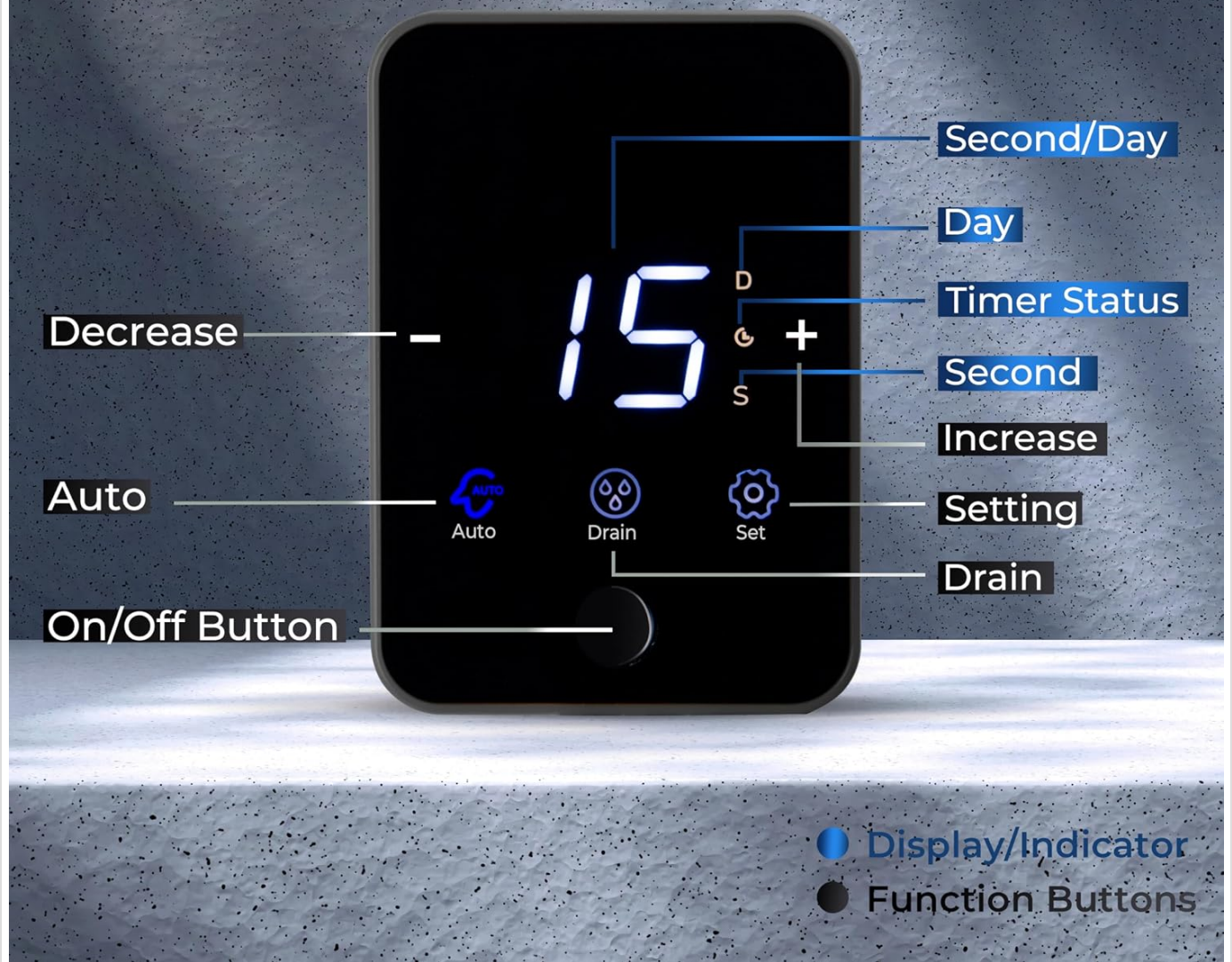


Figure 4: The touch-screen interface of the auto flushing module, showing settings for automatic and manual flushing.

FIRST LINE OF DEFENSE

Protect Your Appliances and Other Filtration Systems



Washer



Dishwasher



Water Heater



Heater



**Drinking
Water Filtration Systems**



**Whole House
Water Filtration Systems**



Figure 5: The sediment filter acts as a first line of defense, protecting household appliances and other water filtration systems from large particulates.



Figure 6: Visual representation of the filtration process and how Siliphos prevents scale and corrosion within the system.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your iSpring WSP100SL-ARJ-BP filter. It is recommended that installation be performed by a qualified plumber.

Pre-Installation Checklist:

- Verify all components are present and undamaged.
- Ensure you have the necessary tools (pipe wrench, thread sealant, measuring tape, etc.).
- Choose a suitable installation location:
 - Install after the main water shut-off valve and before the water heater.
 - Allow sufficient clearance for maintenance and filter replacement.
 - Protect from direct sunlight and freezing temperatures.
- Turn off the main water supply to your home.

- Drain water from the pipes by opening a faucet at the lowest point in your home.

Installation Steps (General Guidance):

1. Cut into the main water line at the chosen installation point.
2. Install the filter unit, ensuring the water flow direction matches the arrows on the filter head. The unit supports 1-inch MNPT and 3/4-inch FNPT connections.
3. Apply thread sealant to all threaded connections to prevent leaks.
4. Securely mount the filter to a sturdy surface using appropriate mounting hardware.
5. Slowly turn on the main water supply, checking for leaks.
6. Flush the system for several minutes to remove any air or carbon fines.

OPERATION

The iSpring WSP100SL-ARJ-BP features a versatile 4-way valve and an intelligent auto-flushing module for ease of use.

4-Way Valve Operation:

The valve handle on top of the filter head allows you to select different modes:

- **FILTER Mode:** Standard operation. Water flows through the filter mesh, removing sediment.
- **BYPASS Mode:** Water bypasses the filter, allowing water flow to your home while the filter can be serviced or maintained without shutting off the main water supply.
- **BACKWASH Mode:** Reverses water flow through the filter to dislodge and flush out accumulated sediment.
- **OFF Mode:** Shuts off water flow through the filter.

Auto Flushing Module:

The integrated touch-screen module allows for scheduled or manual flushing of the filter.

- **Setting Schedule:** Use the touch screen to set the frequency and duration of automatic flushing cycles. Refer to the module's specific instructions for detailed programming.
- **Manual Flush:** A manual flush can be initiated at any time by pressing the appropriate button on the touch screen.
- **Power Supply:** The module supports dual power supply options for continuous operation.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your filter system.

Flushing the Filter:

- Perform backwashing regularly, as indicated by your water quality and usage, or as scheduled by the auto-flushing module.
- During backwash, dirty water will be discharged from the drain port. Ensure the drain line is properly connected.

Siliphos Replacement:

The Siliphos media should be replaced approximately every 6 months, or as needed based on water hardness and usage, to maintain effective scale and corrosion prevention.

1. Turn the 4-way valve to the BYPASS or OFF position and relieve pressure.
2. Unscrew the clear housing using the provided housing wrench.
3. Remove the old Siliphos cartridge and dispose of it.
4. Insert a new iSpring Siliphos cartridge (ensure it is compatible with WSP100SL-ARJ-BP).

5. Lubricate the O-rings with food-grade silicone grease if necessary, and carefully screw the housing back on. Do not overtighten.
6. Slowly return the valve to FILTER mode and check for leaks.

Filter Screen Cleaning/Replacement:

While backwashing reduces the need for manual cleaning, periodic inspection and cleaning of the 100-micron filter screen may be necessary, especially in areas with very high sediment. Replacement filter screens are available in various micron sizes (FWSP50SL-ARJ, FWSP100SL-ARJ, FWSP200SL-ARJ, FWSP500SL-ARJ).



Figure 7: The housing wrench can be used to assist in operating the valve or unscrewing the housing for maintenance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Water Leakage	Loose connections, damaged O-rings, cracked housing.	Tighten connections. Inspect and replace O-rings if damaged. Check housing for cracks; replace if necessary. Ensure proper thread sealant application.
Low Water Pressure	Clogged filter screen, filter in BYPASS or OFF mode, air in the system.	Perform a backwash cycle. Manually clean the filter screen if needed. Ensure valve is in FILTER mode. Flush system to remove air.
Auto Flushing Module Not Working	No power, incorrect settings, module malfunction.	Check power supply (batteries or adapter). Verify settings on the touchscreen. Contact iSpring support if issues persist.
Scale Buildup Still Occurring	Siliphos depleted or ineffective, incorrect dosage.	Replace Siliphos cartridge. Ensure correct Siliphos type is used.

SPECIFICATIONS

Attribute	Value
Model Name	WSP100SL-ARJ-BP
Brand	iSpring
Special Features	Touch-Screen, Auto Flushing, Includes Siliphos
Product Dimensions (L x W x H)	6" x 8" x 21"
Item Weight	16.3 Pounds
Supported Water TDS Level Maximum	500 PPM
Filter Micron Rating	100 Micron
Flow Rate	25 GPM (Gallons Per Minute)
UPC	810004174740
Certification	NSF/ANSI 372 (Lead-Free)

WARRANTY AND SUPPORT

iSpring products are designed for durability and performance. For warranty information, technical support, or to purchase replacement parts and filters, please visit the official iSpring website or contact their customer service directly.

Contact Information:

- **iSpring Store:** [Visit the iSpring Amazon Store](#)
- **NSF Certification Details:** [NSF Certified Lead Content Listings](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question