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## iSpring WGB12B

# iSpring WGB12B 1-Stage Whole House Water Filtration System

Instruction Manual

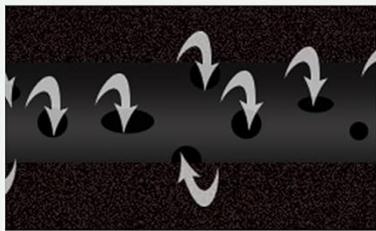
## 1. PRODUCT OVERVIEW

The iSpring WGB12B is a 1-stage whole house water filtration system designed to provide clean, filtered water throughout your home. This system effectively reduces up to 99% of chlorine, as well as sediments, rust, pesticides, herbicides, industrial solvents, VOCs, and various other contaminants from your water supply. It is particularly effective for city water with low sediment levels. The system features a 20" x 4.5" carbon block filter made from high-quality coconut shell carbon, ensuring maximum filtration efficiency and extended filter life. It is tested by an independent third-party to meet NSF/ANSI standards.

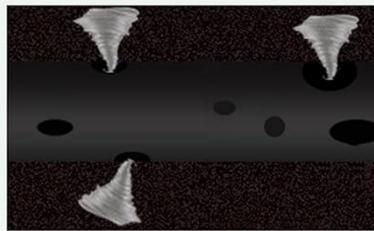
Please note: This system does not reduce Total Dissolved Solids (TDS) and retains healthy minerals in your water. For TDS removal, consider an iSpring Reverse Osmosis (RO) system.

# High Compact Carbon Block Filter

iSpring CTO carbon block filter uses high-quality coconut shell carbon and highly compact fabrication tech for maximum filtration efficiency and filter life.



2x Stronger



2x Faster

The CTO carbon block filter removes up to 99% of chlorine, and is highly effective on other contaminants like industrial chemicals.

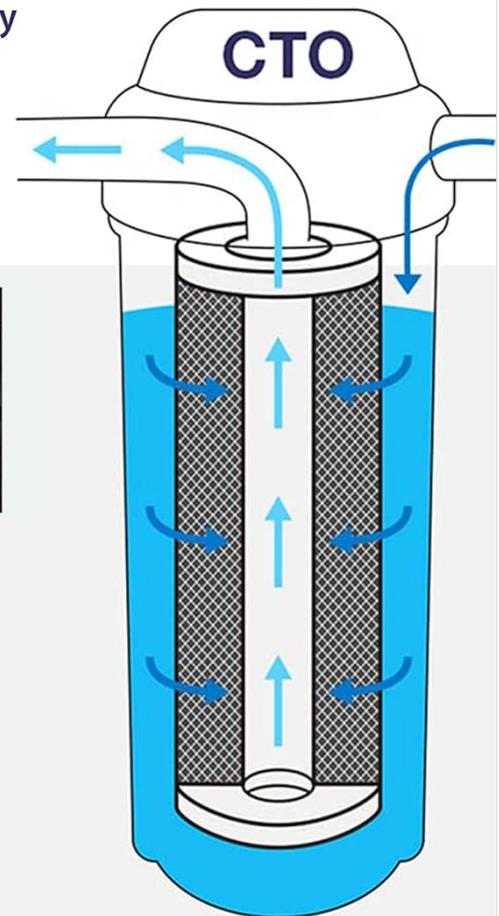


Figure 1: iSpring WGB12B 1-Stage Whole House Water Filtration System

## Key Features:

- **Chlorine Reduction:** Removes up to 99% of chlorine, improving water taste and odor.
- **Contaminant Removal:** Filters out sediments, rust, pesticides, herbicides, industrial solvents, and VOCs.
- **High-Quality Filter:** Features a 20" x 4.5" CTO Carbon Block filter made from coconut shell carbon, NSF/ANSI tested.
- **High Capacity:** Provides up to 15,000 gallons of filtered water, sufficient for a family of four for approximately six months.
- **Minimal Flow Impact:** Designed with 1" NPT inlet/outlet for flow rates up to 15 GPM.
- **Durable Design:** Includes a red pressure relief button, 1" NPT inlet/outlet thread ports, and double O-rings for enhanced seal and leak prevention.

# Product Dimensions >>>



*Please ensure the flow direction matches the inlet/outlet markings on the system.*



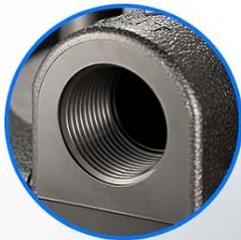
Figure 2: Reliable Design features including pressure relief button, NPT ports, and double O-rings.

# Reliable Design



## Red Pressure Relief Button

Relief pressure safely



## 1" NPT Inlet/Outlet Thread Ports

Standard size



## Double O-Rings

Enhanced seal, leak prevention



Figure 3: Diagram illustrating the high compact carbon block filter's efficiency in removing chlorine and other contaminants.

## 2. SAFETY INFORMATION

- Always turn off the main water supply before beginning any installation or maintenance.
- Release pressure from the system before opening filter housings.
- Wear appropriate personal protective equipment, including safety glasses and gloves, during installation and maintenance.
- Do not overtighten fittings or filter housings, as this can cause cracks and leaks.
- Ensure all connections are secure and leak-free before restoring water pressure.
- Follow all local plumbing codes and regulations. If unsure, consult a licensed plumber.
- Keep the system away from direct sunlight and freezing temperatures.

## 3. PARTS INCLUDED

The iSpring WGB12B system includes the following components:

- 1-Stage Whole House Water Filter Housing (x1)
- Carbon Block Filter (x1)
- Housing Wrench (x1)

Additional tools and parts may be required for installation, such as inlet/outlet fittings, plumber's tape, pipe cutter, adjustable wrench, power drill/driver, and a water bucket.

## 4. SPECIFICATIONS

Feature	Specification
Brand	iSpring
Model Name	WGB12B
Special Feature	Tankless
Product Dimensions	7"L x 7"W x 24"H
Installation Type	Whole House
Power Source	Manual (Water Pressure)
Item Weight	13 Pounds
Maximum Flow Rate	15 Gallons Per Minute
Material	Acrylonitrile Butadiene Styrene
Capacity	15,000 Gallons

# Whole House Protection



Figure 4: Product dimensions and flow direction reminder for installation.

## 5. INSTALLATION

### 5.1. Preparation

- Carefully read the entire user manual before installation.
- Ensure all parts are included and you have all necessary tools.
- Determine the appropriate inlet/outlet port size for your plumbing (WGB12B uses 1" female NPT threads).
- Plan your installation location, ensuring sufficient space for filter changes and maintenance.
- It is recommended to install a water router bypass to ease future filter replacement and system maintenance.
- Turn off the main water supply to your home and open the nearest faucet to drain water from the pipes and release pressure.

#### Applying Plumber's Tape:

Plumber's tape (thread seal tape) is crucial for preventing leaks at threaded connections. Ensure threads are clean and free from debris. Test the fitting size before applying tape.

Your browser does not support the video tag.

Video 1: Step-by-step guide on how to correctly apply plumber's tape to fittings.

- Apply 6-8 wraps of tape in a clockwise direction around the threads.
- Press the tape down firmly into the threads.
- Add another 6-8 wraps and press down again. For 1-inch fittings, 12-15 wraps are recommended.
- Ensure the tape edges are neat and will not come loose.

## 5.2. System Assembly and Connection

Follow these steps to assemble and connect your filtration system:

1. **Unwrap Filters:** Remove the plastic wrapping from the carbon block filter cartridge.
2. **Insert Filter:** Carefully insert the filter into the housing. Ensure the filter's center hole slips over the center knob at the bottom of the housing.
3. **Mount Bracket:** Mount the system's bracket securely on the wall.
4. **Connect Fittings:** Apply plumber's tape to the inlet and outlet fittings and carefully insert them into the corresponding ports on the filter head. Tighten with a wrench, but do not overtighten to avoid cracks.
5. **Attach Housing:** Screw the filter housing onto the filter head. Hand-tighten first, then use the included housing wrench for another quarter to half turn. Do not overtighten.
6. **Connect to Pipeline:** Connect the system to your main water pipeline. Ensure the "Water Flow" direction arrow on the machine head matches the direction of water flow within your pipeline.

Your browser does not support the video tag.

Video 2: Detailed installation process for the iSpring Whole House Water Filtration System.

# iSpring Whole House Water Filter Cartridge Family - 4.5" x 20"



Figure 5: Diagram showing how the whole house system protects all water-using appliances.

## 6. OPERATION

1. **Restore Water Supply:** Slowly turn on the main water supply to your home.
2. **Check for Leaks:** Carefully inspect all connections for any signs of leaks. Tighten any leaking connections as needed, but do not overtighten.
3. **Flush System:** Open a nearby cold water faucet and let the water run for approximately 10 minutes. This flushes out any air, carbon fines, and debris from the system. The water may appear cloudy or discolored initially; this is normal. Continue flushing until the water runs clear.
4. **Verify Operation:** Ensure the system is working properly and there are no leaks.

## 7. MAINTENANCE

### 7.1. Filter Replacement

The carbon block filter cartridge should be replaced according to the manufacturer's suggested schedule or as

needed, typically every 6 months or after 15,000 gallons, depending on water quality and usage.



Figure 6: Various iSpring filter cartridges and their functions.

1. **Turn Off Water:** Shut off the main water supply to the system.
2. **Release Pressure:** Press the red pressure relief button on top of the filter head to release any trapped pressure.
3. **Unscrew Housing:** Use the housing wrench to unscrew the filter housing counter-clockwise. Place a bucket underneath to catch any residual water.
4. **Remove Old Filter:** Remove and properly dispose of the expired filter cartridge.
5. **Clean Housing:** Clean the inside of the filter housing and the housing cap with lukewarm water mixed with two tablespoons of household bleach, using a sponge or soft cloth. Rinse thoroughly.
6. **Inspect O-rings:** Inspect the housing O-rings for any cracks or wear. Replace if necessary. Apply a thin layer of food-grade silicone lubricant to the O-rings to ensure a proper seal.
7. **Insert New Filter:** Unwrap and insert the new carbon block filter cartridge into the housing, ensuring it seats correctly over the center knob.
8. **Reinstall Housing:** Screw the housing back onto the filter head. Hand-tighten first, then use the wrench for another quarter to half turn. Do not over-tighten.

9. **Restore Water & Flush:** Slowly turn on the main water supply and check for leaks. Flush the system by running a nearby cold water faucet for 10 minutes until the water is clear.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
<b>Water Leakage</b>	Loose connections, damaged O-rings, incorrect plumber's tape application.	Tighten connections, replace O-rings, reapply plumber's tape correctly. Ensure housings are not overtightened.
<b>Low Water Pressure</b>	Clogged filter cartridge, air in the system, undersized plumbing.	Replace filter cartridge, flush system to remove air, consult a plumber for plumbing issues.
<b>Cloudy/Discolored Water</b>	New filter carbon fines, trapped air, excessive sediment.	Flush the system for a longer period (up to 20-30 minutes). If problem persists, check water source or filter.
<b>Poor Taste/Odor</b>	Expired filter, high levels of contaminants.	Replace filter cartridge. If problem persists, consider additional filtration stages or water testing.

## 9. WARRANTY AND SUPPORT

iSpring offers peace of mind with an extended manufacturer warranty and lifetime free technical support from their U.S. local support team. To activate your warranty and access support, please register your product online.

If you encounter any problems with your iSpring WGB12B system, please reach out to the iSpring customer service team immediately. They are dedicated to providing assistance and ensuring your satisfaction.

For more information, visit the official iSpring website or contact their support directly.

[Visit the iSpring Store for Support and Registration](#)