**WARNING**

There are hazards associated with backcountry travel and the use of water filters. Drinking untreated water may expose you to harmful microorganisms and increase your risk of illness. Proper use of this filter requires following the instructions and warnings in this manual. Failure to follow warnings and instructions may increase your risk of exposure to harmful microorganisms and may violate the warranty. Keep this manual for future reference. If you do not understand the manual or have any questions, please call Cascade Designs at 1-800-531-9531.

**FILTER SPECIFICATIONS**

**Kit Contents**
- Dirty Collection Reservoir (with built-in Female Quick Disconnect fitting)
- Male Quick Disconnect fitting
- Filter Cartridge
- Inlet Hose (12 in./30 cm)
- Outlet Hose (48 in./122 cm)
- Clamp
- Upper Base Plate
- Lower Base Plate
- Bite Valve
- Clean Side Cover
- Universal Bottle Adapter
- Universal Bottle Adapter Instructions

**Filter Media**
- Hollow Fiber Membrane (HFM)
- Ceramic Filter Element

**Filter Life**
- Ceramic Filter Element: 1000 liters
- Hollow Fiber Membrane: 2000 liters

**Flow Rate**
- Ceramic Filter Element: 1.75 liters per minute (depends on filter condition, water quality)
- Hollow Fiber Membrane: 1.5 liters per minute (depends on water condition)

**Storage Temperature**
- Above 32°F (0°C) (Do Not Freeze)

**AutoFlow™ Gravity Filter**

For product information and service contact:
Cascade Designs, Inc.
4600 First Avenue South, Seattle, WA 98134 USA
1-800-531-9531 or 206-505-9500
www.msr.com
info@msrdesigns.com

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**PREPARE AUTOFLOW SYSTEM**

1. Connect open end of inlet Hose to black inlet Hose Barb. **Note:** Arrow (water flow direction) on Filter Cartridge should point toward clean container.
2. Connect outlet Hose to white outlet Hose Barb.
3. Connect open end of outlet Hose to Universal Bottle Adapter.
4. Remove Clean Side Cover and attach a clean container to the Universal Bottle Adapter. (See Tips.)
5. Close Shut-off Clamp on outlet Hose.

**WARNING**
Handle Filter Cartridge carefully because a damaged filter cannot prevent exposure to harmful microorganisms. Test filter for damage if dropped 5 feet (1.5 meters) or greater onto a hard surface. (See Filter Cartridge Tips.)

**FILTER WATER**

1. Remove Male Quick Disconnect from the Female Quick Disconnect on the Dirty Collection Reservoir.
2. Fill the Dirty Collection Reservoir with unfiltered water.
3. Fold the Closure Strap on the Dirty Collection Reservoir as needed to seal. **Note:** Connect the buckles of the Closure Strap to each other.
4. Suspend the Dirty Collection Reservoir by the Hang Strap. **Note:** Hang the Dirty Collection Reservoir as high as possible without putting tension on the hoses or pulling the clean container off the ground.
5. Reinstall the Male Quick Disconnect.
6. Open Shut-off Clamp to start water flow. Allow water to flow down from Dirty Collection Reservoir through Filter Cartridge into clean container.

**WARNING**

- When filtering water, never splash dirty or unfiltered water into clean container to avoid contamination.
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**CONNECT INLET HOSE TO UNIVERSAL BOTTLE ADAPTER**

1. Connect open end of inlet Hose to black inlet Hose Barb.

**TIPS**

- To eliminate the growth of bacteria or mold, always disinfect the filter before or after long-term storage, or after long-term use (15+ consecutive days). See Step 5.

**PACK AND STORE AUTOFLOW SYSTEM**

1. Empty all water from system.
2. Reattach Clean Side Cover to Universal Bottle Adapter.
3. Wind hoses around Filter Cartridge. **Note:** All parts (reservoir, hoses, cartridge, adapter) should remain connected to avoid cross contamination during field storage.
4. Roll Dirty Collection Reservoir around Filter Cartridge and hoses and place in the storage sack.
5. Allow at least ½ liter to flow through the filter for at least 15 seconds to clean out of Male Quick Disconnect.
6. Air or towel dry autoFlow system parts completely.

**DISINFECT FILTER**

1. Remove Male Disconnect from the Female Quick Disconnect on the Dirty Collection Reservoir.
2. Rinse Dirty Collection Reservoir with clean water.
3. Mix a solution of 2 drops of household bleach to 1 liter of water in Dirty Collection Reservoir.
4. Remove any debris from the Pre-Filter Screen.
5. Reinstall the Male Quick Disconnect.
6. Reattach Clean Side Cover to Universal Bottle Adapter.

**WARNING**

- Never store Filter Cartridge in cold temperatures (below 32°F/0°C) because freezing the filter will permanently damage the internal fibers. Always wash and dry filter parts.

**CLEAN COLLECTION RESERVOIR**

1. Collect at least ½ liter of filtered water in clean MSR recommended container. (See Tips.)
2. Remove the inlet Hose from the barb of the Male Quick Disconnect.
3. Hold or hang clean container above filter and allow water to flow back through the filter and out of Male Quick Disconnect.
4. Allow at least ½ liter to flow through Filter Cartridge to remove debris collected in the fibers. For long-term storage of the autoFlow system, see Step 5.

**WARNING**

- Always wash and dry filter parts.
- Never store Filter Cartridge in cold temperatures (below 32°F/0°C) because freezing the filter will permanently damage the internal fibers. Always wash and dry filter parts.

**Backflush Filter Cartridge**

- Regularly backflush Filter Cartridge every 8 liters (more frequently for cloudy or tea-colored water) to clean every 8 liters (more frequently for cloudy or tea-colored water) to clean out of Male Quick Disconnect.
- Rinse Dirty Collection Reservoir with clean water.
- Mix a solution of 2 drops of household bleach to 1 liter of water in Dirty Collection Reservoir.
- Place open end of Outlet Hose (or Universal Bottle Adapter) in sink.
- Hold or hang Dirty Collection Reservoir above sink.
- Open Shut-off Clamp and let bleach solution filter through system into sink.
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- Hold or hang Dirty Collection Reservoir above sink.
- Open Shut-off Clamp and let bleach solution filter through system into sink.
- Roll Dirty Collection Reservoir around Filter Cartridge and hoses and place in the storage sack.
- Always disinfest the filter before or after long-term storage, or after long-term use (15+ consecutive days). See Step 5.

**WARNING**

- Never store Filter Cartridge in cold temperatures (below 32°F/0°C) because freezing the filter will permanently damage the internal fibers. Always wash and dry filter parts.

**Clean Collection Reservoir**

- Collect at least ½ liter of filtered water in clean MSR recommended container. (See Tips.)
- Remove the inlet Hose from the barb of the Male Quick Disconnect.
- Hold or hang clean container above filter and allow water to flow back through the filter and out of Male Quick Disconnect.
- Allow at least ½ liter to flow through Filter Cartridge to remove debris collected in the fibers.
- For long-term storage of the autoFlow system, see Step 5.

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