



## Instructions for Essential Whole RV Water Filter Systems

For P/N: essential\_system, essential\_system\_scale, system\_iron\_std, VH\_2301

Included:

- Water Filtration System Housing with ¾” Hose Fittings (2 or 3 canisters)
- Standard White Bracket (or upgraded Blue Cage)
- x1 Black O-ring per Canister (sometimes already installed in canister grove)
- Canister Wrench
- Female-to-Female Hose Adapter

FILTERS included in Systems:

**\*Systems typically comes with A1108 Sediment Filter previously installed in Canister #1\***

Essential System

- x2 Sediment Filters (1 micron) [A1108]
- x1 Solid Block Carbon Filter (.5 micron) [A1209]

Essential System + Anti-Scale

- x2 Sediment Filters (1 micron) [A1108]
- x1 Anti-Scaling Carbon Filter [A1401]

Essential System + Virus Hero

- x1 Sediment Filter (1 micron) [A1105]
- x1 Solid Block Carbon Filter (.5 micron) [A1209]
- x1 Virus Hero Filter (.2 micron) [A1405]

Essential System + Metal(Iron) Trap

- x2 Sediment Filters (1 micron) [A1108]
- x1 Solid Block Carbon Filter (.5 micron) [A1209]
- x1 Metal Trap Filter (iron removal) [A1415]

**CAUTION! IMPORTANT INFORMATION!**

- DO NOT allow system or individual filter cartridges to freeze
- Systems are rated for a maximum water pressure of 65 PSI. If pressure exceeds this, use of a water pressure regulator is recommended.
- For safety reasons, filter cartridges can not be returned once packaging is removed.
- Be sure to follow the “FLUSHING” procedure below when installing/refilling filters

## SYSTEM USES

1. (Recommended) To be connected directly to a hose spigot, running water through the filter system before it enters the fresh water tank or city water input. Mount system in wet bay or use externally.
2. As a prefilter for Reverse Osmosis Systems, Water Softeners, Ceramic Drinking Water Filters, Deionization Filter Systems, UV Filters and Water Heaters.
3. (Alternative) As an internally mounted filter system, placed in-line after the RV pump. In this installation, water will be filtered as it is delivered by the RV pump from the freshwater tank, directly to the point of use.

### WARNINGS FOR ALTERNATIVE METHOD #3:

- Additional plumbing required with the method.
- This method does not prevent bacteria from entering your freshwater tank, which at the right temperature will multiply rapidly. Use of a pre-filter when filling the freshwater tank or chemical treatment using Purogene or similiar water sterilizer is recommended.

## ASSEMBLY:

### 1. Mounting

- 1.1. (if mounting in wet bay or internally) Mount system where desired. Be sure to leave at least 3" beneath the bottom of the canisters to allow for removal when changing filters.
- 1.2. (If using as an external system) No mounting is required.

2. **Attach FEMALE-TO-FEMALE** adapter to the INPUT fitting of the system (only applicable for systems shipped with male fittings on both ends)

### 3. Flush Filters

\*Due to loose media in the filters, it is best to independently flush new filters that require flushing before use to avoid sediment entering your RV

Filters that do require flushing...

Carbon Filters [A1209, A1206, A1401]

Metal Trap [A1415]

Filters that do not require flushing...

ALL sediment filters

Virus Hero Filter

Ceramic Filters

3.1 Place filter being flushed in the last canister of the system

3.2 Connect system to hose spigot

3.3 With the system disconnected from your RV, run water through the system at full pressure for 2-5 minutes (until black sediment stops running through the water).

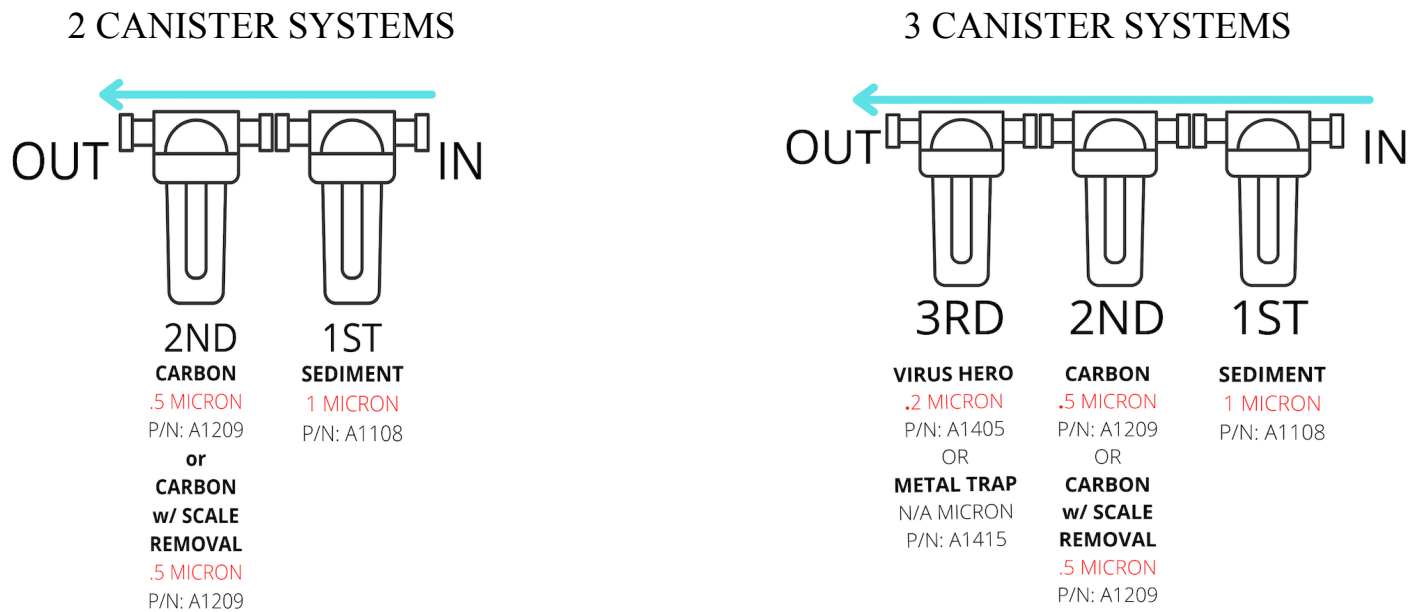
#### 4. Place Filters in Correct Order

\*Reference Figure Below\*

##### FILTER ORDER:

\*note\*

Facing the front of the system, the INPUT of the system will be on the right hand side (as shown in figure below). This can be changed by switching the direction of the bracket.



#### 5. Connect System

5.1. (For city water connection or fresh water tank fill)

With system INPUT attached to the hose spigot using a fresh water hose, use a second freshwater hose to connect the OUTPUT of the system to either the city water connection or fresh water tank fill port of the RV.

8.2 (For use as a prefilter)

Water filter system should be placed before any water softener, RO system, etc.

8.3 (For internal installation)

Use of additional adapters required. Consult a plumber or visit the “Contact Us” page on our website <https://www.rvwaterfilterstore.com/contact-us> for technical advice or to schedule a phone consultation with a consultant.

Your system is now ready to use! Please continue reading for more information regarding cleaning of your filters, system maintenance, and average filter lifespan.

## FILTER CARTRIDGE CLEANING, MAINTENANCE, & LIFESPAN

\*note\*

Filter Lifespan is dependent on source water quality and the lifespan of each filter may vary case by case. Keeping your sediment filter clean is the best way to increase the lifespan of the proceeding filters.

### SEDIMENT FILTER [A1108] 1-3 months of regular use

- Naturally resistant to bacteria growth for up to 1 month in stagnant water.
- Keeping the sediment filter clean is the best way to extend the life of the more expensive filters that follow.
- Scheduled replacement is recommended every 1-3 month; or, replace when water pressure decreases significantly.
- Non-washable

### SOLID CARBON FILTERS [A1209 & A1401] 4-6 months of regular use

- Naturally resistant to bacteria growth for up to 1 month in stagnant water.
- Replace when noticeable change in taste/odor occurs, or if replacement of sediment filter does improve water pressure.
- Non-washable

### GRANULATED CARBON FILTERS [A1206] 12-24 months of regular use

- Naturally resistant to bacteria growth fro entire life.
- Replace after 12-24 months or with change in taste/odor of water.

\*SPECIALTY FILTERS\*

### VIRUS HERO[A1405] 12 months regular use \*cleanable\*

- Replace when membrane breaks (filtration will be reduced and rupture will be visible on inner filter material); or, every 12 months
- Washable- When clogged, gently rinse in the sink or with a hose to remove collected debris on the outer membrane.

WARNING: Use of a pressure washer or “Jet” setting on hose could result in the rupturing of the filter membrane.

METAL TRAP[A1415] ~6,000 gallons

- Replace when noticeable increase of dissolved iron occurs in water (poor taste, water has red color, red staining, sulfur smell, etc.); or, every 12 months
- Washable- If the filter clogs in a short period of time, you can perform a backflush by running water in the reverse direction (connected to the OUTPUT side of the system) through the filter for 3-5 minutes. This should unclog the filter.

## FILTER CARTRIDGE AND WHOLE SYSTEM STORAGE AND WINTERIZATION

### \*IMPORTANT NOTE\*

DO NOT allow the system to freeze with water left in the canisters. This will lead to the canister cracking. Follow the following steps to store your filter system.

### Storing Filter Cartridges

\*All filters BESIDES CERAMIC FILTERS can be dried and stored\*

To dry filters you can...

1. Dry in the sun
2. Use a heat fan/heat gun/air compressor
3. Place filter in sealed bag with silica packets

Store dry filters in a gallon freezer bag and keep in a safe location that will not freeze.

### Storing/Winterizing Filter Empty Filter System

1. Clean the entire plastic filter housing with warm water and dish soap.
2. Dry housing thoroughly
3. Store in a safe place
4. DO NOT let the system freeze for an extended period of time with water left in the canister. This will lead to the rupture of the canister.

\*If system is installed to the plumbing, anti-freeze may be added to the system during winterization and left installed\*

## ADDITIONAL INFORMATION

Refill Kits for all systems available at [www.rvwaterfilterstore.com](http://www.rvwaterfilterstore.com)...

<b><u>System Name</u></b>	<b><u>Refill Website Code</u></b>
Essential System	AA1209
Essential System + Anti-Scale	AA1401
Essential System + Metal(Iron) Trap	AA1415
Essential System + Virus Hero	AA1209 & A1405

Replacement Parts for all systems available at [www.rvwaterfilterstore.com](http://www.rvwaterfilterstore.com)

<u>Part Name</u>	<u>P/N on Website</u>
FEMALE-TO-FEMALE ADAPTER	FT0104
O-RING	B2117
CANISTER WRENCH	B2114
BLUE CAGE UPGRADE	B3122
EXTRA CANISTER WITH FITTINGS	B2101
CLEAR SUMP UPGRADE	B2109
WHITE SUMP REPLACEMENT	B2118

Adapters for available for compatibility with custom installs [www.rvwaterfilterstore.com](http://www.rvwaterfilterstore.com)

<u>Part Name</u>	<u>P/N on Website</u>
3/4" F Standard Hose Fitting x 1/4" MNPT	FT0006
3/4" F Standard Hose Fitting x 1/4" JG push-in fitting	FT0016
3/4" F Standard Hose Fitting x 3/4" F Standard Hose Fitting	FT0014
3/4" F Standard Hose Fitting x 3/4" F 90 degree Elbow	FT0047

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