

Product Specification

OneFlow® Media

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Watts OneFlow® media is an economical and environmentally friendly water treatment media that helps protect pipes and extend the life of appliances.

The OneFlow media attracts dissolved hardness minerals and converts them into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and have a greatly reduced ability to react and attach to surfaces like dissolved hardness does. They eventually find their way to a drain. The system with OneFlow media requires very little maintenance, no backwashing, no salt and no electricity.

Physical Properties

Color	White beads
Composition	Modified Acrylic polymer
Bulk Density	45.6 lbs. / cu.ft.
Specific gravity	1.5 gm/cc
Mesh size	20x50

Suggested Operating Conditions

Recommended bed depth	4"-10" Depending on Flow Rate
Recommended freeboard space	500% of bed expansion plus 100%-200% freeboard on top. Overall 600%-700% of bed depth
Service flow rate	4 gpm/L
Peak hydraulic loading rate	28 gpm/sqft
Backwash flow rate	No Backwash required
Media Lifespan	up to 3 years
Operation mode	Upflow

Feed Water Chemistry Requirement

pH	6.5 to 8.5
Hardness	30 grains (513 ppm CaCO ₃)
Temperature	41 to 140° F (5-60° C)
Free chlorine	<2 ppm
Iron (max)	0.3 ppm
Manganese (max)	0.05 ppm
Copper (max)	1.3 ppm
Oil & H ₂ S	Must be Removed Prior to OneFlow
Total Phosphates	<3 ppm
Silica (max)	20 ppm
TDS	< 1500 ppm



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OneFlow media is certified to NSF/ANSI/CAN 61 for material safety to NSF/ANSI/CAN 372 for lead free compliance.

Application Requirements

Hardness: OneFlow is effective controlling lime-scale formation inside the plumbing system up to 75 grains per gallon of hardness. Due to variances in water chemistry, 30 grains per gallon is a recommended hardness maximum for esthetic appearance outside of the plumbing system. Testing should be performed to determine proper application where hardness levels exceed 30 grains per gallon.

Just as with conventional water softening media, OneFlow media needs to be protected from excess levels of certain metals that can easily coat the active surface, reducing its effectiveness over time. Public water supplies rarely, if ever, present a problem, but if the water supply is from a private well, confirm that the levels of iron (Fe) and manganese (Mn) are less than <0.3 ppm and 0.05 ppm, respectively.

Free Chlorine: High levels of chlorine may cause media to degrade resulting in decreased performance. Pretreatment with an activated carbon filter is recommended to reduce residual chlorine levels to < 2 ppm.

Iron/Manganese: Excessive iron or manganese may cause OneFlow media to foul. Pretreatment with Filox™ is recommended.

Copper: Continuously elevated levels of copper may cause OneFlow media to foul. Refer to warning for more details.

NOTICE

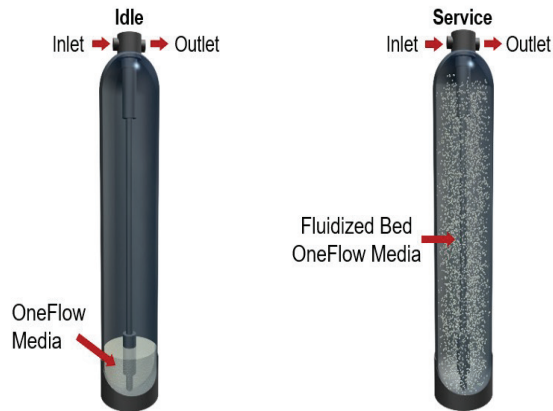
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Media Replacement And Disposal

OneFlow media should be replaced every three years.

Disposal of contents and container in accordance with local / regional / national / international regulations

Example Operation Diagram



Standard Packing And Shipping

Packaging method: 180-liter barrel

Dimension (DiaxH): 18" x 36"

Shipping Weight (per barrel): 288 lbs

Pallet Qty: 4 barrels per pallet

Shipping from San Antonio, TX

Applications

Healthcare facilities

Residential systems home appliances

Hotels / resorts

Schools / universities

Office buildings

Correction facilities

Food Service Industry

Handling And Storage

Use good safety and industrial hygiene practices. Avoid repeated freezing and thawing cycles to prevent fracturing. If frozen, thaw at room temperature. Best stored in a cool dry place.

⚠ WARNING

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Pursuant to the EPA drinking water standards, the copper concentration permitted is up to 1.3 ppm. Typically originating from new copper plumbing, high levels of copper can foul OneFlow media. New Copper lines need to be passivated for a minimum of 4 weeks before placing unit into service. For applications with copper concentration greater than 1.3 ppm, please consult Watts Water Quality Technical Service. To further minimize any problem with excess copper, avoid applying excessive flux on the inner surfaces of the pipe and use a low-corrosivity water soluble flux listed under the ASTM B813 standard.

Using OneFlow with Other Water Treatment Equipment

Due to the unique properties of OneFlow, there are some unique requirements for using OneFlow in conjunction with filtration or other forms of water treatment.

1. OneFlow must be the last stage in the treatment chain. Do not install any filters after OneFlow or before any devices for which scale prevention is required. POU filters, e.g. carbon, RO or Ultraviolet (UV) are exempt from this requirement.
2. Do not apply any other antiscalants before or after OneFlow.
3. The addition of soaps, chemicals, or cleaners, before or after OneFlow treatment, may reverse its anti-scale treatment effects and/or create water with a heavy residue or spotting potential. Any adverse conditions caused by the addition of soaps, chemicals, or cleaners are the sole responsibility of the end user.
4. OneFlow is not a water softener and does not soften the water - Water treatment chemistry (e.g. antiscalants, sequestrants, soaps, chemicals or cleaners etc...) will most likely have to be changed to be compatible with OneFlow treated water. Laundry and ware-washing chemistry will likewise require adjustments.

Special Notice

For hot water applications where untreated feed water temperature is 100°F - 140°F (38°C - 60°C), please consult ES-OneFlow-HotWater.

OneFlow is not for use on closed loop systems

Avoid application on closed loop (e.g. hydronic) / multi-pass systems or where chemical additives may affect anti-scaling. Closed loop applications usually have chemicals that can reverse OneFlow's treatment

OneFlow media does not reduce silica scaling

OneFlow media does not reduce silica scaling. While silica tends to have a less significant effect on scale formation than other minerals, it can act as a binder that makes water spots and scale residue outside the plumbing system difficult to remove. This 20 ppm limitation is for aesthetic purposes.

All other contaminants must meet the requirements of the USEPA Safe Drinking Water Act. Specific Mineral and Metal MCLs, identified in Watts published Feed Water Chemistry Requirements, supersedes the USEPA SDWA. Water known to have heavy loads of dirt and debris may require pre-filtration prior to OneFlow.

Spotting May Occur on External Plumbing Surfaces

OneFlow media systems perform best in single pass potable water applications with NO additional chemical additives. Depending on hardness, soft scale spotting may occur. Soft scale spots can be easily wiped down with a damp cloth and will not form hard scale deposits.

