Introduction

The HousePure® with Watts ScaleStop provides protection from scale formation throughout the home plumbing system. In addition, the system provides conditioned water throughout the whole house, protecting against many water borne contaminants such as chlorine, chloramines, bad tastes and odors. The HousePure ScaleStop system is designed to be installed at the point-of-entry to treat your entire home system, treating both hot and cold water for protection from hard water.

HousePure® ScaleStop reduces or eliminates scale formation on internal and external plumbing surfaces as well as reducing spottinsociated with hard water. HousePure® ScaleStop prevents scale formation by transforming hardness minerals (which are normally dissolved) into undissolved crystal micro-particles. These crystals stay suspended in the water and have a greatly reduced ability to react and attach to surfaces the way dissolved hardness minerals do. Therefore, the problem of scale buildup inside pipes and water heaters, and on fixtures, tile and glass is greatly reduced.

HousePure® ScaleStop is not a water softener. Low or phosphate-free cleaning products are recommended to achieve optimum results. Modern surfactant or detergent based, liquid soaps are preferred over old-fashioned caustic solid soaps.

Unlike softened water, HousePure® ScaleStop treated water maintains the beneficial essential mineral content of your water and is safe to drink. Furthermore, the system will reduce chlorine, chloramines and foul tastes from water at every faucet and appliance throughout the home.
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IMPORTANT PLEASE READ:

- The information, specifications and illustrations in this manual are based on the latest information available at the time of printing. The manufacturer reserves the right to make changes at any time without notice.
- This manual is intended as a guide for service and installation of the HousePure® ScaleStop System. This product should be installed by a plumbing professional.
- This unit is designed to be installed on potable water systems only. **Well water applications require pre-analysis evaluation before purchase of the HousePure® ScaleStop System.**
- This product must be installed in compliance with all state and municipal plumbing and electrical codes. Permits may be required at the time of installation.
- It is established that when daytime water pressure is above 80 psi (5.5 bar), the maximum pressure rating of 100 psi (6.9 bar) can be exceeded. A pressure regulator must be installed on this system or warranty is voided.
- Do not install the unit where temperatures may drop below 32°F (0°C) or above 110°F (43°C). Avoid placing the unit in direct sunlight. Black valve units will absorb radiant heat increasing internal temperatures.
- Do not strike the valve or any of the components.
- Warranty of this product extends to manufacturing defects. Misapplication of this product may result in failure to properly condition water, or damage to product.
- An additional prefilter should be used on installations in which free solids are present.
- In some applications local municipalities treat water with Chloramines. High Chloramine levels may damage valve components.
- Correct and constant voltage must be supplied to the control valve to maintain proper function.
- **Not for use with water that is biologically unsafe.**
Installation Specification Sheet

Job Number: ____________________________

Model Number: WI-HPSS-1 or WI-HPSS-1.25 ______________________

Water Hardness: ________________ parts per million (PPM) or grains per gallon (GPG)

GPM Service Capacity of Model Unit: 12 or 16 _______

Tank 1 Carbon/KDF Tank Size: ___________ Diameter: ___________ Height: ___________

Tank 1 Cubic Foot Size: ___________

Tank 2 HousePure ScaleStop Tank Size: ___________ Diameter: ___________ Height: ___________

Tank 2 Liters of Media: ___________

1. Type of Timer:
   12-day Backwash Cycle (default)

2. Tank Type
   Tank 1  Downflow Backwashing pre-filter
   Tank 2  Upflow HousePure ScaleStop

3. System Type:
   Time Clock

4. Timer Program Settings:
   A. Backwash: 10 Minutes (default setting)
   B. Rapid Rinse: 10 Minutes (default setting)
HousePure® ScaleStop System Benefits

- Chemical-free scale prevention. Provides cost savings and environmental benefits.
- Better for the environment. Discharged salt from water softeners interferes with water reclamation and public water treatment plants.
- Very low maintenance. No salt bags or other chemicals to buy, transport and store.
- Sodium is not added to water with HousePure® ScaleStop as is done with a water softener.
- The “Slippery” feeling caused by salt-based water softeners is not created by HousePure® ScaleStop.
- Beneficial minerals are retained in drinking water.
- Improves the taste of water throughout the home. Improves the overall feel of water as treated water will suds more than untreated water and hardness minerals will stick less to skin and hair.
- Improves efficiency of water-using appliances.
- Safe for landscaping and lawn watering. No need for costly bypass plumbing.
- **Compatible with all on-site and community waste water treatment systems.** Not subject to water softener restrictions and “bans.”
- HousePure® ScaleStop removes chlorine, bad taste and odors from water in the home, which is not possible with water softeners.
HousePure® ScaleStop System Overview

**WI-HPSS-1.25**
- 1-⅛” Inlet-Outlet Size*
- 2 Cubic Feet Activated Carbon
- 5 Lbs. KDF-55 Medium
- 4 Liters ScaleStop Media
- 24VDC Commercial Valve
- Service Flow: 16 GPM, 19 GPM Peak
- Decorative Stainless Jackets
- NSF Component Certified
- Manufactured with ISO 9001 Standards

**WI-HPSS-1**
- 1” Inlet-Outlet Size
- 1-½ Cubic Feet Activated Carbon
- 5 Lbs. KDF-55 Medium
- 3 Liters ScaleStop Media
- 24VDC Commercial Valve
- Service Flow: 12 GPM, 14 GPM Peak
- Decorative Stainless Jackets
- NSF Component Certified
- Manufactured with ISO 9001 Standards

*Can be used with 1-1/2” main line
Installation Kit Contents

HousePure® ScaleStop WI-HPSS-1.25

Tank 1 Connection Fittings
- Connector Assembly
- Bypass Assembly
- 1-1/4" x 18" Stainless Flex Line
- Connecting Clips

Tank 2 Connection Fittings
- Bypass Assembly
- PVC Male NPT Elbow Assembly

Distributed Internationally by Water, Inc.
800.322.WATER (9283)
www.waterinc.com
Installation Kit Contents

HousePure® ScaleStop WI-HPSS-1

Tank 1 Connection Fittings

Tank 2 Connection Fittings
HousePure® ScaleStop Specifications

Equipment Specifications
HousePure® ScaleStop systems are complete, self-contained, loaded with media and ready to use. A simple inlet and outlet connection along with backwashing drain line is all that is required for installation. Please review operating pressures, temperatures and water chemistry limitations to ensure compatibility.

Using the HousePure® ScaleStop Equipment
Due to the unique properties of the HousePure® ScaleStop, there are some specific requirements for using this equipment:

1. HousePure® ScaleStop has two water conditioning tanks. The HousePure® ScaleStop media tank (tank 2) must be the last tank in the treatment chain. Do not install any other filters after the HousePure® ScaleStop tank. Do not apply phosphate or any other anti-scalant either before or after the HousePure® ScaleStop.

2. Point-of-use drinking water filters such as Body Glove water filters and Reverse Osmosis can be installed after the HousePure® ScaleStop and will provide an additional higher level of drinking water treatment.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Inlet/Outlet Connection</td>
<td>1&quot; - 1-1/2&quot; (two options)</td>
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<tr>
<td>Temperature</td>
<td>34° - 122°F</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 to 8.5</td>
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<tr>
<td>Ferrous Iron, Max*</td>
<td>0.3 mg/L</td>
</tr>
<tr>
<td>Manganese, Max*</td>
<td>0.05 mg/L</td>
</tr>
<tr>
<td>Copper, Max*</td>
<td>1.3 mg/L</td>
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<tr>
<td>Water Pressure (psi)</td>
<td>30 psi min., 100 psi max.</td>
</tr>
<tr>
<td>Voltage, Frequency, Power</td>
<td>120VAC, 60Hz, 7 watts (max)</td>
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</tbody>
</table>

*See note about iron, manganese and copper on the next page.

Mechanical Specifications

<table>
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<th>Model</th>
<th>WI-HPSS-1.25</th>
<th>WI-HPSS-1</th>
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<tbody>
<tr>
<td>Max Service Flow (gpm)</td>
<td>16</td>
<td>12</td>
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</tbody>
</table>

Dimensions (nominal - inches)

<table>
<thead>
<tr>
<th>Model</th>
<th>WI-HPSS-1.25</th>
<th>WI-HPSS-1</th>
</tr>
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<tr>
<td>a</td>
<td>49</td>
<td>47</td>
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<tr>
<td>b</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>c</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>d</td>
<td>12</td>
<td>10</td>
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Filter Performance Information

⚠️ Important note about iron, manganese and copper in the water supply

**Iron and Manganese**

Just as with conventional water softening media, HousePure® with WATTIS ScaleStop 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. However, if the water supply is from a private well, confirm that the levels of iron (Fe) and manganese (Mn) are less than 0.3 mg/L and 0.05 mg/L respectively. Copper should be less than 1.3 mg/L. For maximum effectiveness, the level of sulfates in the water should not exceed 50% of the level of water hardness. For more information see “Feed Water Chemistry Requirements” on page 16. Note: Well water applications require a well water analysis for review by Water, Inc. prior to purchasing the HousePure® with WATTIS ScaleStop System.

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⚠️ Caution!

- **DO NOT** let the system freeze. Damage to the tanks may occur.
- System must be operated in a vertical position. Do not lay the HousePure® ScaleStop tanks down for operation.
- Place the system on a smooth, level surface. Tank 2 operates in an Up-Flow, fluidized bed mode, having a level surface is more important than with a water softener or media filter.
- A Bypass Valve is provided for both tanks of the system to facilitate installation and service.
- Observe all local plumbing and building codes when installing the HousePure® ScaleStop System.

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**Standards**

| DVGW – German Technical and Scientific Association for Gas & Water |

HousePure® ScaleStop meets standard W-512 for testing Physical Water Treatment devices for Scale Prevention and achieved an efficiency rating of 99.6% for scale prevention.

HousePure® ScaleStop media has been tested and certified for material safety to NSF/ANSI Standard 42 and 61.

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**Copper**

Copper usually originates from new copper plumbing upstream of the HousePure® ScaleStop System. If this condition exists, we recommend waiting 3-4 weeks before placing the system in operation. This will allow the copper surfaces to be fully flushed and develop a natural protective surface. To further minimize any problem with excess copper, avoid applying excess flux on the inner surfaces of the pipe and use a low-corrosivity water soluble flux listed under the ASTM B813 standard. Once the plumbing connections are complete, place the HousePure® ScaleStop system in bypass to follow the startup procedure and flush the plumbing for at least 10 minutes.

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**Notes to the Installer**

The HousePure® ScaleStop system differs from a conventional water softener or media filter in a number of key areas:

- The first tank is pre-filled with Carbon and KDF media, the second tank is lighter and only partially filled with HousePure® ScaleStop media. This is normal. The Up-Flow operation of the second tank requires much more freeboard (free space at the top of tank) to allow the media bed to fully fluidize.
- The first tank has an underbedding and should not be tipped over; the media may become mixed with the underbedding. The second tank does not have underbedding and tipping will not adversely affect tank media.
- Because the second tank operates in an Up-Flow mode, the tank connections are opposite of traditional installations.
- Please refer to the “Important note about Iron, manganese and copper in the water supply” above.
- Please refer to the note about “Using HousePure® ScaleStop with other water treatment equipment” on the previous page.