

Watts E-Treat® Water Conditioning Systems

Good for the environment. Good for the planet. Good for you!

Conventional water softeners are generally considered the most effective and practical way to reduce water hardness and prevent scale formation in pipes and plumbing fixtures. Water softeners, however, require salt to regenerate, and

they must be backwashed periodically to rinse and refresh the ion exchange resin. Brine water discharge and the need to conserve water have challenged this conventional technology, and new methods to provide scale-free water are being considered.

Introducing The Environmentally Friendly Solution To Water Quality Improvement Problems!



Model # ETREATWCS



NO SALT!



NO WASTED WATER!



NO SCALE!*



NO CHLORINE!



NO ELECTRICITY!

With E-Treat® Water Conditioning Systems, there's no salt, no backwash, no scale, no chlorine and no electricity!

Here's how it works:

Step #1 (Main Tank)

Water enters the system and flows down through a two cubic foot bed of coconut shell activated carbon. This initial water treatment process improves water quality by reducing bad tastes, foul odors, chlorine and organic substances through adsorption.

Step #2 (Inner Tank & Contact Chamber)

During this process, water flows upward through the inner tank where treatment for scale prevention is provided using our highly effective, anti-scale media. This unique material transforms calcium *ions* into Calcium *crystals*, which are stable and cannot attach to pipes, surfaces, hardware or heat exchanger components. The crystals are so small they are easily rinsed away by the water flow!

With E-Treat®, there is no scale on plumbing fixtures, no costly repairs to hot water heaters due to scale, no salt, no brine tank and no electrical control valve. The installation is easy because only a simple "in and out" valve is required.

* Performance testing proves E-Treat® Water Conditioning Systems virtually eliminate new scale formation and aids in the removal of existing scale. Results may vary, however, and performance is based on water hardness levels, flow rate and other factors.



Calcium scale in pipes and plumbing equipment results in high energy costs and may lead to expensive repairs to appliances, such as hot water heaters, ice machines, coffee makers and dishwashers. Scale can also be a source for bacteria to grow, which may become a health concern in drinking water applications.



Anti-Scale Media

On the other hand, Calcium is important to human health, and supplements are recommended if Calcium is reduced or totally void in one's diet.



Installation

E-Treat® Water Conditioning Systems are typically installed where water enters the house for whole house water treatment. pipe connections are 1".

Media And Carbon Replacement

E-Treat® Water Conditioning Systems with scale control media are designed to provide whole house water conditioning for up to five years, based on hardness and chlorine levels before the scale control media must be replaced.

We recommend replacement of the activated carbon every two years, for optimum performance. A dome hole is provided for this extraction.

Our trained water quality improvement dealer in your area can complete the media and carbon replacement procedure.

Specifications (Model # ETREATWCS)

Maximum flow rate	12 gallons per minute
Maximum temperature	120°F (60°C)
Minimum temperature	40°F (4°C)
Maximum hardness	Sizing is based on maximum hardness of 25 grains per gallon.
pH range	6 to 9
Pressure	Maximum pressure is 125 psi; 8.75 bar (minimum pressure is 20 psi 1.4 bar).
Tank sizes	Outer tank is 13" x 65". Inner tank is 9" x 30" (outer tank is black).
Flow pattern	In the outer tank the flow is downward. In the inner tank the flow is up-flow.
Certification	Anti-scale media is NSF Standard 61 Certified for material safety.
By-Pass Valve	By-pass valve is included.
Capacity	System comes with 2 cu. ft. of coconut shell carbon and 4 liters of anti-scale media.

NOTE: Do not use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit. System must be maintained according to manufacturer's instructions. Pre-treatment for sediment, Iron, Hydrogen Sulfide, Manganese, hydrocarbons and copper may be required depending on conditions. Install systems in new homes with copper pipe after six weeks of water use.



Water Conditioning System Installation

INSTALLATION INSTRUCTIONS:

1. Place system on a smooth flat surface.
2. Install the fittings and / or the bypass (see separate instructions).
Slide the nut on first then the split ring and o-ring.
3. Connect incoming cold water to the inlet of the system.
4. Connect system outlet to service water of the house.
5. Open the nearest valve down stream of the system to allow the air to purge from the system, and allow the initial carbon fines to go down the drain.
6. Remove the dome hole plug.
7. Slowly open inlet valve and allow the system to fill with water.
8. Watch the water level through the dome hole opening. Close the inlet valve and reinstall the dome hole plug once the tank is full of water.
9. Fully open the inlet valve and allow water to run to drain until it is clear.
This flushes the carbon fines from the system.
10. Close the down stream valve five minutes after the water runs clear.
11. Check for leaks and repair as required.
12. System is ready for use.

CONDITIONS OF OPERATION & RECOMMENDATIONS:

- A five-micron pre-filter is recommended if sediment is present in the water
- Maximum continuous flow rate 12 gpm
- Minimum pressure 15 PSI
- Maximum pressure 125 PSI
- Minimum operating temperature 34 F
- Maximum operating temperature 120 F
- Water pH range 6.0 to 9.0
- Maximum feed water hardness is 25 grains per gallon.
- Hydrogen sulfide, iron, and manganese pretreatment required
- Maximum chlorine 4 ppm
- Oil and grease should not be present

NOTE: Failure to install the proper pretreatment will cause the scale control media to be ineffective.



IMPORTANT

The non-electric, "in / out" valve used with E-Treat Systems is designed to be used in both up-flow and down-flow installations. E-Treat Systems are down-flow through the bed of carbon and up-flow through the anti-scale media. Labels are provided; however facing the valve, looking directly into the ports of the valve, the inlet is on the LEFT.

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