

Whole-House Water Refinement

685HE HTO Upflow Series Whole House Water Refining System

This Product Removes
**Bad Taste, Odor,
Chlorine & Chloramines**

This Product Controls
Hard Water



PRODUCT DETAILS

Enjoy luxurious soft water plus remove bad taste and odor caused by chlorine, chloramines or organic matter!

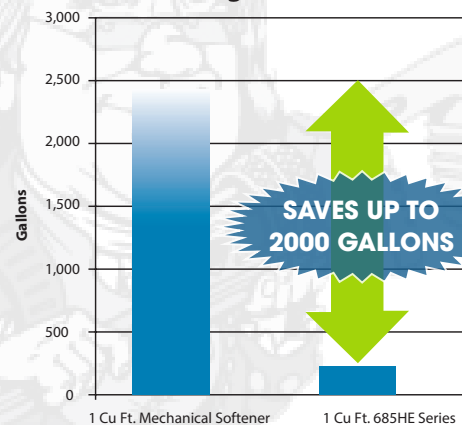
- Great tasting water
- Odor-free. No chlorine!
- Soft skin & silky hair
- Brighter laundry
- Easier cleaning
- Protect plumbing & water using appliances from scale build-up

A COMPLETE WATER REFINING SYSTEM FOR YOUR HOME

HIGH-EFFICIENCY FEATURES:

1. **Upflow Regeneration** - for salt efficiency & softer water
2. **Precision Brining** - improves salt efficiency
3. **Adjustable Backwash Frequency** - saves up to 2000 gallons per year on city water systems
4. **Automatic System Flush** - prevents bacteria growth
5. **Soft Water Immediate Recharge** - prevents hard water on heavy usage days
6. **Soft Water Refill** - keeps system clean

Estimated Annual Back Wash Water Usage



STANDARD FEATURES:

- Two tank carbon system keeps media beds separate, allowing for more carbon contact for improved chlorine, chloramines and organic removal
- Carbon can be replaced without replacing the resin bed
- Same benefit as separate systems but with cost of only one control valve
- Fully adjustable cycles allow customization to the most efficient settings based on specific water quality requirements
- Rotating 'No Touch' Diagnostic backlit 16 Character LCD display with customizable screen for Dealer Name and telephone #
- NSF Certified Pressure Tank with attractive condensation jacket with grey finish
- IAPMO approved cation softening resin

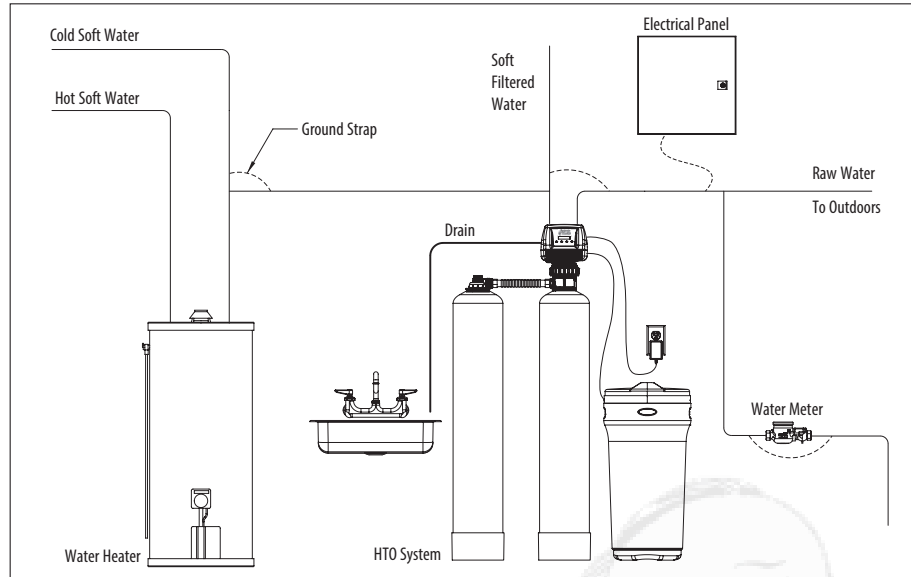
CATALYTIC CARBON is a Premium Carbon that is very effective for Chloramine reduction as well as Chlorine.

KDF PROCESS MEDIA is used in models where hydrogen sulfide (H₂S) causes a rotten egg odor on municipal water.

- High density polyethylene salt tank with lifetime warranty
- Brine safety valve for added overflow protection
- Plastic salt grid prevents salt bridging
- Space saving bypass with integrated turbine meter
- Time saving quick connect fittings on brine line, drain line (with O-ring seal) and power cord for fast and easy installations
- 10 Year Limited Warranty
- Complete NSF 44 System Certification
- Hose clamp and 10' drain line included

TIP: If the rotten egg odor comes only from the hot water, it may be due to the corrosion of the water heaters anode rod. Using an anode rod made of zinc or aluminum can stop this problem. If the odor comes from hot & cold water, treatment is required.

*INSTALLATION SET UP



*Example Installation (Not Applicable For All Situations)

Specifications	685 Series HTO (Hardness, Taste & Odor) With Catalytic Carbon (chloramines reduction)			685 Series HTO With Catalytic Carbon & KDF (Hydrogen Sulfide / Rotten Egg Odor)		
	HTOC685-1.0 17014591-1	HTOC685-1.5 17014592-1	HTOC685-2.0 17014869-1	HTOCK685-1.0 17014595-1	HTOCK685-1.5 17014596-1	HTOCK685-2.0 17014868-1
Factory Settings						
Salt Used - Per Regeneration	6.0 lbs	9.0 lbs	12.0 lbs	6.0 lbs	9.0 lbs	12.0 lbs
Water Used - Regeneration	86.4 gal	148 gal	162.4 gal	86.4 gal	148 gal	162.4 gal
Hardness Removal - Grains	25,000	37,500	50,000	25,000	37,500	50,000
Tank #1 Carbon Quantity - Cubic Feet	1.0 ft	1.50 ft	2.0 ft	1.0 ft	1.50 ft	2.0 ft
Tank #2 Resin Quantity - Cubic Feet	1.0 ft	1.50 ft	2.0 ft	1.0 ft	1.50 ft	2.0 ft
Tank Size	9 x 48	10 x 54	12 x 52	9 x 48	10 x 54	12 x 52
Tank Jacket / Media Loaded	Yes	Yes	No	Yes	Yes	No
Brine Tank Size (Inches)	18.1 x 34.5	18.1 x 34.5	20.3 x 37.4	18.1 x 34.5	18.1 x 34.5	20.3 x 37.4
Salt Storage Capacity	240 lbs	240 lbs	350 lbs	240 lbs	240 lbs	350 lbs
Flow Rate @ 15 psi Pressure Drop	7.2 gpm	7.4 gpm	9.0 gpm	7.2 gpm	7.4 gpm	9.0 gpm
Flow Rate @ 25 psi Pressure Drop	10.0 gpm	10.1 gpm	11.9 gpm	10.0 gpm	10.1 gpm	11.9 gpm
Back Wash Flow Rate	2.4 gpm	3.5 gpm	4.0 gpm	2.4 gpm	3.5 gpm	4.0 gpm
Shipping Weight	154 lbs	171 lbs	214 lbs	154 lbs	171 lbs	214 lbs
Warranty	10 Year Ltd.	10 Year Ltd.	11 Year Ltd.	10 Year Ltd.	10 Year Ltd.	10 Year Ltd.
Regeneration Type	Counter Current / Up Flow					
Plumbing Connections	Includes 3/4" 90° Elbows & 1" Straight NPT					
Resin Type	Canature 8% High Capacity Ion Exchange Resin					
Carbon Type	Catalytic Carbon					
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA					
Water Temperature	Min 39 - Max. 100 degrees Fahrenheit					
Water Pressure	Min. 20 - Max. 125 psi					