

RainSoft turns ordinary water into extraordinary water . . .

# Iron and Manganese Filtration System

GEN 6 SYSTEM DESIGN

## A Whole House Iron & Manganese Filtration System That's Fully Automatic

A Rainsoft Iron & Manganese Filtration System provides a reliable supply of quality water with minimum attention. Great for solving special water problems, the system is built for long life and trouble-free operation.

 **RainSoft**  
Taking the worry out of water... Since 1953

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### Filtration System Features

#### **Tank-Within-A-Tank Construction**

The rugged tank is wound with miles of glass filament for extraordinary strength. Inside, there's another tank of sanitary plastic so your drinking water will never touch the interior fiberglass surface.

**Exclusive Composite Valve** Uses advanced composite material to enhance dimensional integrity and protect the valve from expansion or shrinkage due to pressure and temperature demands.

#### **Digital Controller**

Simple yet versatile controls. Set it and forget it; enjoy an unlimited supply of filtered water.

**Power Outage Recovery** If power is lost, the system will automatically recover and complete the process once power is restored. This feature helps ensure that scheduled regeneration cycles are not missed and that filtered water is available.

**Powerful High Torque Motor** Self-lubricating and with power to spare, for maintenance-free, long-life operation.

**Large Porting & Internal Piping** The TC filter provides generous water flow rates.\*

**Manual Regeneration Tab** A simple push of the tab starts a complete regeneration cycle giving you extra treated water if and when needed.

**Automatic Bypass During Regeneration** Eliminates the inconvenience of being without water.

NOTE: Tank size and local water pressure will affect the unit's operating flow rate.

CALIFORNIA RESIDENTS ONLY  
Please note that your state registration information for this product is described on the back of the sheet.

## The smart, economical way to enjoy the best water possible.

### Filter Media

**Birm** This media has been selected for its efficient and economical method of reducing ferric iron and manganese compounds from water supplies. It maintains a long material life with relatively low attrition loss, a wide temperature performance range, and extremely high removal efficiency. Birm acts as an insoluble catalyst to enhance the reaction between dissolved oxygen and the iron compounds.

### Application Limitations

Incoming water should contain no oil or hydrogen sulfide; organic matter not exceed 4 - 5 ppm; dissolved oxygen content to equal at least 15% of iron content with a pH of 6.8 or more. If influent water has a pH of less than 6.8, a pH adjustment will be necessary. Chlorination greatly reduces birm's activity, and dosages should be held to a minimum. Birm may also be used for manganese reduction. In these applications, the water to be treated should have a pH of 8.0 - 9.0 for best results. If the water also contains iron, the pH should be below 8.5. High pH conditions may cause the formation of colloidal iron, which is very difficult to filter out. Well pumps must produce a greater flow rate than the required backwash flow rate. The maximum practical limit of Iron ( $Fe^{+2}$ ) is 10 ppm; Manganese ( $Mn^{+2}$ ) is 2 ppm. Actual results may vary based on local water conditions.

### Maintenance Requirements

The filtering media will eventually become exhausted or consumed and will need replacement. The replacement schedule will depend on the incoming water quality and the amount of water you use. Your local authorized RainSoft dealer can provide you with replacement schedules based on your water-using habits and your incoming water quality.

The regeneration valve is designed to last a lifetime. From time to time it may be necessary to clean and lubricate the moving parts. Your water quality and the number of regenerations will affect this schedule. Your dealer is knowledgeable in different water qualities and the necessary parts required in completing this service.

CALIFORNIA RESIDENTS: Water treatment devices sold to retail consumers in California accompanied by certain health claims must be registered to California Water Resources Control Board. The RainSoft TC-FIT R Series filters are not certified by the State of California for the purpose of making health claims.



Rainsoft TC-FIT R Series filter is UL and CSA Listed, and is certified by TÜV to meet European CE requirements. Refer to the manufacturer's Performance Data Sheet for specific claims.

Benefits will be provided by various types of RainSoft equipment when installed and operated according to manufacturer's recommendations. Operational, maintenance and replacement requirements are essential for the product to perform as advertised. All claims based on best available information at time of printing. Manufacturer makes no representations as to the suitability of this equipment for a particular application. Buyer relies entirely on dealer's recommendations in the purchase of this equipment. Independent RainSoft dealers may include, together with your RainSoft product, a product or component that is not manufactured by RainSoft. Any non-RainSoft product may be covered by the manufacturer of that product, and is not covered by the RainSoft warranty. Rainsoft does not warrant that your RainSoft product and the non-RainSoft product will perform properly when used together, and assumes no liability therefore.