

Capital

SINCE 1936

Eliminator III IRON FILTRATION SYSTEM

MODELS
WSFE-10
WSFE-13



SELF-CLEANING
NO CHEMICALS REQUIRED
STOPS IRON STAINING
IMPROVES WATER TASTE

The Eliminator III Iron Filtration System

Principles of Operation

The **Eliminator III Series Filter** is designed to remove iron through the combined processes of oxidation and filtration.

During the normal service/filtering cycle of the system, raw water enters the filter through the control valve and is brought into direct contact with a zone of compressed air contained within the top of the pressure vessel. The captive air within the system saturates the feed water with oxygen. Next, an insoluble granular media contained within the pressure vessel acts as a catalyst to enhance the oxidation reaction of iron compounds. This reaction causes these minerals to precipitate. The precipitated particles are then trapped by the granular media and prevented from moving downstream of the system.

The compressed air and media have a limited capacity for oxidizing and holding iron and, therefore, must be periodically cleaned and replenished through a backwash and air injection

cycle. This cycle is initiated and completed by the control valve at a fixed interval.

Water Analysis

Contaminants other than iron may limit the filter's ability to remove the iron and must be addressed before installing the **Eliminator III**.

Iron Bacteria: Must be treated with chlorination and a carbon filter. Chlorine will damage the filter material in the FE-series Tank.

Tannins: If present in the water supply will not allow the oxidation process to occur.

Total Dissolved Solids (TDS): If the water tests above 700 TDS, please consult factory before installing the **Eliminator III**.

A complete water analysis should be done before any equipment is purchased. Ask your Water Treatment Dealer, Plumbing Contractor or Capital Water Softener, Inc.

For questions, information, service or parts also contact the installing Water Treatment Dealer, Plumbing Contractor or Capital Water Softener, Inc.

For installation conditions and needs refer to the **Installation and Operation Manual**.

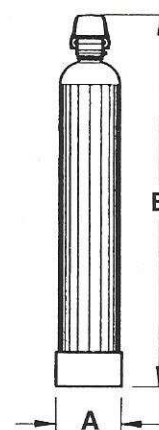
Eliminator III Specifications

Model Number	WSFE-10	WSFE-13
Rated Service Flow (gpm)	5.0	7.1
psi Drop @ Service Flow	4.0	3.0
Backwash Flow Rate (gpm)	5.3	9.0
Min.-Max. Pressure (psi)	20-70	20-70
Min.-Max. Temp. (degrees)	35-110	35-110
Rated Capacity (gallons)	475	800
Shipping Weight (lbs.)	129	189

Dimensions

Model Number	A	B
WSFE-10	10 inches	63 inches
WSFE-13	13 inches	63 inches

WSFE-Series Tank



Capital Water Softener, Inc.
 2096 Helena Street
 Madison, WI 53704
 Tel: 608-241-1511
 Fax: 608-241-5709
 Toll-Free: 1-800-558-3283

AVAILABLE FROM