

CGFE 948 GREENSAND Filter

Iron, Manganese, "Rotten Egg" Odour Removal



Iron

Iron is a common element found in most water supplies, particularly well water. In concentrations over 0.3 mg/L (PPM) iron causes deposits on pipelines, pressure tanks, water heaters and water softeners, reducing the available water flow and pressure. It affects the flavour and colour of food and water. It may react with tannins in coffee, tea and some alcoholic beverages to produce a black sludge, which affects both taste and appearance. Iron causes reddish-brown staining of laundry, porcelain, dishes, utensils and even glassware.



Manganese

Manganese is most often present in iron-laden waters. In concentrations over 0.05 mg/L (PPM), it causes black deposits on plumbing fixtures and laundry.

Hydrogen Sulphide (Sulphur)

Hydrogen Sulphide gives water an obnoxious "rotten egg" odour that can make it unbearable to drink, cook with or bathe in. It also promotes corrosion and tarnishes silver. Higher concentrations are flammable & poisonous.

Removing the Troublesome Trio !

Rainfresh CGFE948 Greensand Filter is based on the technology of oxidation and filtration. It incorporates a special high-oxidant media called Manganese Greensand. When water flows through the Greensand filter system, dissolved Iron and Manganese are oxidized to insoluble precipitates by contact with the greensand media, and simultaneously filtered out. Hydrogen Sulphide is reduced to an insoluble sulphur precipitate, which is also filtered in the bed.

Water coming out of the greensand filter is virtually free of Iron, Manganese and Hydrogen Sulphide.

When the oxidizing capacity of the greensand bed is exhausted, the system automatically backwashes after a pre-set time interval. During the backwash cycle, the trapped contaminants are flushed down the drain and the media regenerates using Potassium Permanganate (Pot-Perm) which is stored in a separate container. The entire process is automatic.

Advantages

- Automatic backwash & regeneration!
- Prevents reddish-brown or black staining on bathroom & kitchen fixtures
- Prevents stains in washing machines and laundry
- Clothes are cleaner and whites are whiter
- Prevents staining on dishes dishwashers
- Clearer water at every tap including showers
- Low maintenance



- Prevents red stains
- Prevents black stains
- Reduces "Rotten Egg" odour

CGFE 948 Greensand Filter



Unique Electronic Controls For High Efficiency and Ease of Use

- Bi-lingual control module (English & French)
- Fully programmable (cycle time, regeneration frequency etc.)

Ease of installation - Quick Connect Fittings

- 3/4" NPT elbow fittings, can be rotated to suit any installation angle
- Quick connect style reduces installation time and effort
- Reduces cost of extra plumbing fittings
- Unique built-in bypass valve included with turn tool for ease of use



Typical Installation

The CGFE unit is designed for installation after the pressure tank before the water pipe divides into hot and cold and before a water softener or UV system (if installed). A 5 or 1 micron cartridge filter may be installed after the CGFE filter for final polishing of rust or sediment.

CGFE Greensand filter is equipped with by-pass valve, drain line connector, 15 ft of drain tubing and automatic electronic control valve. Call Rainfresh for custom sizes and options.



Specifications

Model No.	Service Flow US GPM* (LPM)	Peak Flow US GPM* (LPM)	Backwash Flow Rate Required US GPM* (LPM)	Inlet / Outlet	Drain Connection	Installed Height (H x W x D)
CGFE 948	3 (11.3)	5 (19)	5 (19)	3/4" Male NPT	1/2"	54" x 10" x 13.5"

* - 1 US Gallon = 0.8327 Imperial gallon. Max Water Temperature: 80°F (26.7°C) ; Max practical limit of Iron or Manganese in raw water = 15 PPM ; Max practical limit of Hydrogen Sulphide in raw water = 5 PPM

Warranty

1 year system warranty. 5 year warranty on electronic valve & 10 years on mineral tank

About Rainfresh/Envirogard

For over 50 years, Envirogard has been leading the water treatment industry in Canada by providing high quality products and solutions at affordable prices. "Rainfresh" products are used by homeowners across Canada and in over 40 countries worldwide.



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