

CAFO Iron Filter

Ferrous Iron (Clear Water Iron) 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 reddish-brown staining of bath tubs, toilet bowls, laundry, dishwasher, dishes, etc.



Removing Iron from Whole House

Rainfresh CAFO Iron Filter is an effective and economical way to remove iron from water without the use of messy and dangerous chemicals or expensive pumps or an external venturi. The CAFO filter works by adding oxygen to the incoming water by passing it through a bubble of compressed air which oxidizes ferrous iron. A special oxidant medium (BIRM[®]) acts as an insoluble catalyst and enhances the oxidation process. The resulting precipitated iron (Ferric Hydroxide) is filtered within the system and iron-free water comes out of the system for use.

After a pre-set number of days (typically every 3-4 days), the filter automatically undergoes a backwash cycle, during which it cleans the bed up and discharges the trapped iron to drain and replenishes air in the tank. The system does not need any chemicals or salt and is, therefore, very economical to use and environment-friendly.



Advantages

- Removes iron from whole house water supply
- No use of salt or chemicals
- Fully automatic backwash
- Prevents iron staining on bathroom & kitchen fixtures, washing machines, dishwashers, showers, laundry, etc.
- Clearer water at every tap including showers

Manganese Reduction

The CAFO systems can, in some cases, also be used to remove some Manganese from water with the same dependability as iron removal. However, for Manganese removal, pH of the water should be between 8.0 and 9.0.

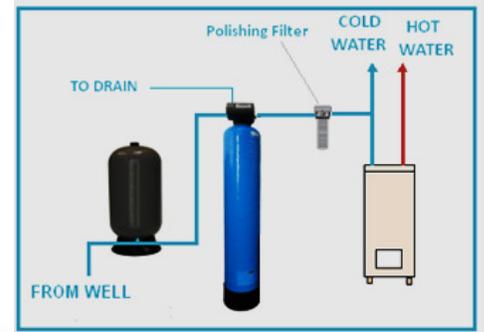


Clean and Clear Water for your entire home.....Always!!!



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 easily rotated 360° 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



MODEL Specifications

Model No.	Unit Type	Media Tank Size	Max Flow Rate US GPM* (LPM)	Backwash Flow Rate Required	Inlet / Outlet	Drain Connection
CAFO948	1 ft ³ , single tank Iron Filter unit	9" D x 48" H	6.0 (22.7)	5.0 US GPM (19 LPM)	3/4" Male NPT	1/2" Hose

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

Conditions for operation

- Alkalinity should be greater than two times the combined sulphate and chloride concentration
- Water temperature: 4°C (39°F) to 38°C (100°F)
- Water pH range : 6.8 to 9.0
- Hydrogen sulphide should be removed prior to the CAFO system
- Oil: None present
- Polyphosphates: None
- Free chlorine concentration less than 0.5 PPM

What's Included : Inlet check valve, by-pass valve, 15 ft drain tubing, and automatic bilingual electronic control valve

Warranty : 1 year limited 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.

