

## ETFE SERIES

### Commercial Tannin Filters



Tannins are dissolved decayed organic matter generally found in shallow well and surface waters like lakes, rain-fed streams etc. Some water sources carry tannin all year round while some may have tannin only seasonally, particularly in the spring and fall run-offs.

Though not a direct health risk, tannins impart a yellow or tea-color to water, making it aesthetically unpleasant and reducing the efficiency of ultraviolet disinfection systems. Further, tannins can bind iron organically; make it extremely difficult to be removed by conventional methods.

#### Rainfresh ETFE Series Tannin Reduction Systems

Rainfresh ETFE system removes tannin from water by the principle of ion exchange. It features a high grade tannin-specific resin with low amines to reduce tannins. The system is usually located after the pump/pressure tank system and any sediment/iron filters, but before the plumbing line divides into hot and cold.



When water flows through the Rainfresh ETFE system, tannins are removed instantly and clear water passes out for use. The ETFE system features a fully automatic electronic control valve that sets off an automatic backwash and regeneration cycle once the resin exchange capacity has been exhausted. During the backwash/regeneration cycle, the resin bed is cleaned up of dirt and recharged with a salt solution. Salt is stored in a separate container included with the system.



#### Control Valves

- Fully adjustable, 5-cycle control delivers upflow backwash, downflow brining, slow rinse, rapid rinse and down flow service
- Designed for single tank or multi-tank systems, alternating or interlocking
- Continuous flow rate of up to 250 GPM
- Protective UV-stable, water and corrosion resistant NEMA 3R enclosure
- Choice of 7 or 12 day clock or meter initiated regeneration
- Valve body constructed of lead-free brass
- Fully programmable individual cycles
- Optional no-hard water bypass
- Component certified to NSF 61

#### Electronic Controller

The NXT Network Controller uses on-board communication capabilities to link multiple commercial valves (via CAT3 cables)

- 2x16 character backlit LCD display
- Networks up to four valves
- Easy installation with plug-in wiring harnesses
- Front panel diagnostics button
  - Flow rate
  - Peak flow rate
  - Totalizer
  - Hours between last two regenerations
  - Hours since last regeneration
  - Adjustable volume remaining
  - Valve position
  - Software version
- Easy time of day adjustment
- Five configurable cycle steps & three programming levels - User Mode, Master Programming, Diagnostics Mode
- Remote signal start



NXT controller

## Tanks & Internals

- Seamless polyethylene liner wrapped with a continuous filament wound/epoxy resin fiberglass shell designed for 100 psig working pressures and temperatures of 120°F (49°C) – component certified to NSF 44/61
- PVC hub/lateral flow distributor and riser tube
- Corrosion resistant materials for long life
- Much lighter & easier to handle compared to steel tanks

## Applications and Benefits

- Pre-filtration for UV systems
- Apartment buildings
- Long-term care facilities
- Hotels
- Office buildings
- Restaurants

## System Specifications

- Pressure: 30–100 psig
- Power: 24 Volts 50/60hz
- Temperature: 4 - 49°C (40–120°F)
- Turbidity < 1 NTU. Water must be pre-filtered if turbidity exceeds 1 NTU
- Water hardness <3 GPG
- Free Chlorine < 0.5 PPM.
- Iron: 0.3 PPM max. Iron must be removed prior to the unit to reduce potential for resin fouling
- Manganese < 0.05 PPM.
- Hydrogen Sulphide – Nil
- Organics and oils - Nil



ETFE48-2-9100-TA Twin-Alternating Tannin Filter operating using 9100 controller

## System Selection

ETFE	36	72	2	3900	TA	4872
ENVIROGARD TANNIN FILTER	Media Tank Dia	Media Tank Height	Valve Size	Valve Type	Type	Brine Tank Size Dia x H
	12"	45"	1"	2510	TA = Twin Alternating	21" x 36"
	14"	52"	1.5"	2750	D = Duplex	30" x 48"
	16"	52"	2"	2850	T = Triplex	36" x 48"
	21"	65"	2.5"	2850S		42" x 48"
	24"	69"	3"	2900S		48" x 48"
	30"	72"		3150		
	36"			3900		
				9000		
				9100		

## Warranty

One year warranty against defects in materials, workmanship & corrosion. 5 year warranty on tanks

## About 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 & commercial facilities across Canada and in over 40 countries worldwide.

