

# EXCALIBUR - FILTERMAX™ TANNIN FILTERS



Quality through innovation





## What Are Tannins?

Tannins are natural organic materials that are found in decaying vegetation. They fall into two large primary categories: humic acids and fulvic acids. Rain water passes through these organic materials, taking on on a weak-tea or amber color before ending up in wells and surface water supplies. Although this is a natural process, the presence of tannins in water supplies has increased over the years due to climate change.

When humans burn fossil fuels, sulphur dioxide and nitrogen oxides are released into the atmosphere. These air pollutants mix with water and other materials before falling to the ground in the form of acid rain. Over time, acid rain alters the PH of the soil in falls on, removing minerals and nutrients. This damages vegetation, leading to an increase in tannins.



## Are Tannins Dangerous?

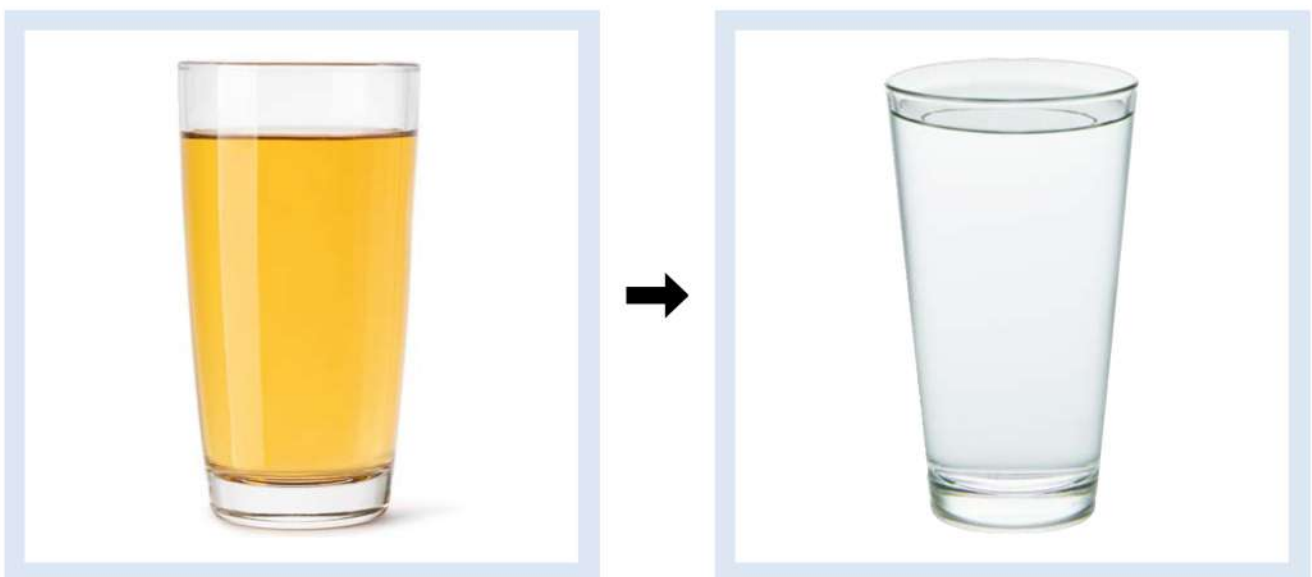
Tannins are not considered a health concern, but they can cause yellow staining on clothing and fixtures as well as an unpleasant appearance and taste to your drinking water. Tannins are a headache because they're an aesthetic problem and because they can't be penetrated by other water purification systems. This means that if you use an ultraviolet sterilizer in your home, tannins would render it useless.



## How Are Tannins Removed?

The Filtermax™ Tannin Filter removes tannins from your water supply with an anion resin. Through a process called ion exchange, the negatively charged anion resin acts as a magnet, causing positively charged tannins stick to it, allowing only clean water to enter your home.

During the process of regeneration, water softening salt is turned into a liquid brine. This liquid brine flows through the system, rinsing the resin, and replacing tannin with sodium ions. The brine solution and tannin is then sent to drain and your system resumes normal operation.





## Recommended Additional Filtration Systems

The process of removing tannins from your water supply causes your water's PH level to drop. When PH levels are below 7 the water is considered acidic, which can cause health issues if consumed and plumbing issues in your home due to metal corrosion. It's important to use a neutralizing filter with your tannin filter, to ensure the water entering your home is neutral rather than acidic.

## Choose Excalibur

Get rid of unpleasant tastes and smells from your water, as well as stains on clothing and fixtures. Choose crystal clear water for your home or cottage with a Filtermax™ Tannin Filter from Excalibur Water Systems.

**Note:** All water hardness above 10 grains per gallon needs to be removed prior to using the tannin filter.



## Filtermax™ Premium Tannin Filter

If your water has taken on a yellow or amber discoloration you probably need a tannin filter. The Filtermax™ Premium Tannin Filter removes tannin from your water supply, eliminating discoloration, unpleasant tastes and smells, and yellow staining on fixtures and fabrics. This fully electronic computerized filter utilizes a high flow control valve to satisfy your household demands and will remove up to 3 PPM of organic tannin compounds from your water. Provides crystal clear water in your home or cottage.



Utilizes minimal power consumption equaling less than \$3/year.



Eliminates stains on fixtures and fabrics



Safety float to protect from overflow



High flow control valve to satisfy all household demands



Removes discoloration



Electronic timer for automatic regeneration

Part #	Flow Rate (gpm)	Pressure (psi)	Temperature (°F)	L x W x H (in)
EWS TFPTN1	5	40-110	40-110	27" x 18" x 57"
EWS TFPTN1.5	7	40-110	40-110	28" x 20" x 63"
EWS TFPTN2	10	40-110	40-110	32" x 20" x 61"

## Filtermax™ Superior Tannin Filter

If your water has taken on a yellow or amber discoloration you probably need a tannin filter. The Filtermax™ Superior Tannin Filter removes tannin from your water supply, eliminating discoloration, unpleasant tastes and smells, and yellow staining on fixtures and fabrics. This fully electronic computerized filter utilizes a high flow control valve to satisfy your household demands and will remove up to 3 PPM of organic tannin compounds from your water. Provides crystal clear water in your home or cottage.



Utilizes minimal power consumption equaling less than \$3/year.



Eliminates stains on fixtures and fabrics



Safety float to protect from overflow



High flow control valve to satisfy all household demands



Removes discoloration



Electronic timer for automatic regeneration

Part #	Flow Rate (gpm)	Pressure (psi)	Temperature (°F)	L x W x H (in)
EWS TFSTN1	5	40-110	40-110	27" x 18" x 57"
EWS TFSTN1.5	7	40-110	40-110	28" x 20" x 63"
EWS TFSTN2	10	40-110	40-110	32" x 20" x 61"



## Filtermax™ Value Tannin Filter

If your water has taken on a yellow or amber discoloration you probably need a tannin filter. The Filtermax™ Value Tannin Filter removes tannin from your water supply, eliminating discoloration, unpleasant tastes and smells, and yellow staining on fixtures and fabrics. This fully electronic computerized filter utilizes a high flow control valve to satisfy your household demands and will remove up to 3 PPM of organic tannin compounds from your water. Provides crystal clear water in your home or cottage.



Utilizes minimal power consumption equaling less than \$3/year.



Eliminates stains on fixtures and fabrics



Safety float to protect from overflow



High flow control valve to satisfy all household demands



Removes discoloration



Electronic timer for automatic regeneration

Part #	Flow Rate (gpm)	Pressure (psi)	Temperature (°F)	L x W x H (in)
EWS TFTN1	5	40-110	40-110	27" x 18" x 57"
EWS TFTN1.5	7	40-110	40-110	28" x 20" x 63"
EWS TFTN2	10	40-110	40-110	32" x 20" x 61"



## EXCALIBUR WATER SYSTEMS INC.

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