

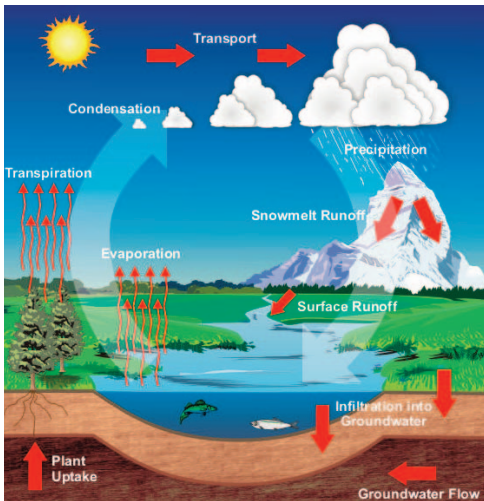


# Filter Prep Water Filters

with WS1 1" Control Valve

**Making the Best of your Water**

# How Our Water Collects Contaminants



## Your Water, The Universal Solvent!

Water is considered the universal solvent. As it passes from liquid to vapor and back again, it tends to dissolve everything it touches -whether in the air as water vapor were it can mix with sulfur from smoke stacks forming acid or from the ground, absorbing calcium, magnesium, sulfur, iron, lead and limestone - water can have a negative impact on you, your household and your pocketbook. Depending on where you live, contaminants from sewage, industrial waste and agricultural run-off can also seep into your water supply.

## Filtration Options for Removing Nature's Contaminants

**ACTIVATED CARBON** - Used for taste, odor, chlorine and organics removal including VOCs. The 12 x 40 mesh size traps particles of 30 micron and larger.

**CENTAUR NDS 12X40 GRANULAR ACTIVATED CARBON** - A high grade catalytic carbon excellent for removing chloramines and hydrogen sulfide from potable waters.

**NEUTRALIZING CRUSHED MARBLE** - A sacrificial media that dissolves in acidic water to create a neutral water. This process adds some hardness to the water. Crushed marble, a mined material, is used in its natural state.

**PYROLOX** - A naturally mined ore, Pyrolox is a mineral form of manganese dioxide used in reducing hydrogen sulfide, iron and manganese.

**FILTER-AG** - A lightweight, silica, crystalline quartz media with excellent filtering capability, requiring lower backwash flow rates.

**FILTER-AG PLUS** - A clinoptilolite natural media with a large surface area and microporous structure used for the reduction of suspended matter.

**KDF** - A bi-metal copper and zinc material used for iron and hydrogen sulfide removal. KDF can control bacteria, algae and fungus growth.

**BIRM** - A lightweight catalytic filter media used for removing iron and manganese via oxidation. The oxidized iron or manganese is then filtered. Birm has an inert core coated with manganese dioxide.

**MANGANESE GREENSAND** - A gluttonite greensand that is a catalytic material for the removal of iron, manganese and hydrogen sulfide. The media is intermittently regenerated with potassium permanganate or continuously with chlorine or a chlorine and potassium permanganate mixture.

**MULTI-MEDIA** - Multi-media is reverse graded layers of filter medias. The layered process allows for higher flow rates plus filtration down to 10 micron-sized particles. Works well for sediment, turbidity and red water iron.

**ZEO♦PREP** - Filters down to 5 microns. Excellent for removing suspended iron, manganese and turbidity. Removes dissolved iron, hardness and manganese through ion exchange. Can be regenerated with salt brine. Zeo♦Prep filters solids like nothing else. Zeo♦Prep's ion exchange properties make it a dual purpose option for problem water.

# Filter Prep Water Filters...

## Making the best of your water.



Filter Prep Water filtration systems make it easy to enjoy cleaner, healthier, better tasting water throughout your home. Whether for drinking, cooking, bathing or laundry, Filter Prep will improve the quality of your water.

Your water could contain chemical contaminants from pesticides, petroleum, solvents, or a variety of sources. Some water contains lead, mercury or other heavy metals. Filter Prep has a variety of units to remove these contaminants.

With a Filter Prep water filtration system, you can protect appliances, household plumbing, and your water heater by reducing sediment, sand or rust that can damage plumbing and appliances.

Filter Prep automatic filters can eliminate iron, sulfur and odor from your water supply 24 hours a day, in most cases, without having filter cartridges to change or chemicals to purchase.

### Filter Prep System features:

- WS1 1" NSF-rated HighFlo Automatic Control valve with Fully Adjustable Cycles
- NSF-rated Polyglass Media Tank
- Filters Available for Removing:
  - Iron
  - Manganese
  - Sulfur
  - Sediment
  - Color
  - Turbidity
  - Taste
  - Odor
  - Heavy Metals
  - Pesticides
  - Herbicides
  - Chemicals



# Filter Prep

Making the Best of your Water



**Calcite is a crushed and screened white marble media which can inexpensively be used to neutralize acidic or low pH waters to a neutral, less corrosive effluent.**

# Calcite

Calcite is a naturally occurring calcium carbonate media. One of the advantages of Calcite is its self-limiting property. When properly applied, it corrects pH only enough to reach a non-corrosive equilibrium. It does not overcorrect under normal conditions. Upon contact with Calcite, acidic waters slowly dissolve the calcium carbonate to raise the pH which reduces the potential leaching of copper, lead and other metals found in typical plumbing systems. Periodic backwashing will prevent packing, reclassify the bed and maintain high service rates. Depending on pH, water chemistry and

service flow, the Calcite bed will have to be periodically replenished as the Calcite is depleted.

As the Calcite's calcium carbonate neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter.

Calcite can be effectively combined with Clack Corosex to combine the high flow neutralization properties of Corosex, along with the slower reacting low flow properties of Calcite, increasing the ability to correct low pH.

## ADVANTAGES

- Naturally occurring material
- Low uniformity coefficient for maximum contact for controlled pH correction
- Slower reacting for controlled pH correction
- Inexpensive

## PHYSICAL PROPERTIES

- Color: Near white
- Bulk Density: 90 lbs./cu. ft.
- Mesh Size: 16 x 40
- Specific Gravity: 2.7
- Effective Size: 0.4 mm
- Uniformity Coefficient: 1.5
- Hardness: 3.0 (Mohs scale)
- Composition: CaCO<sub>3</sub>, 95% min.  
MgCO<sub>3</sub>, 3.0% max.

## CONDITIONS FOR OPERATION

- A gravel support bed is recommended
- Water pH range: 5.0-7.0
- Bed depth: 24-30 in.
- Freeboard: 50% of bed depth (min.)
- Backwash rate: 8-12 gpm/sq. ft.
- Backwash Bed Expansion: 35% of bed depth
- Service flow rate: 3-6 gpm/sq. ft. but may be modified to adapt to local conditions





[www.clackcorp.com](http://www.clackcorp.com)

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