

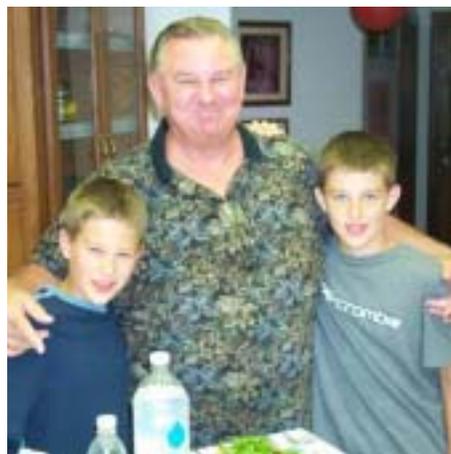
# Drinking Water Systems

*Water the Way it was Meant to Be!*



## Benefits and Features - Stainless Steel Units

- ▶ Clean, delicious, healthier water for drinking, cooking, beverages, food preparation, etc.
- ▶ Provides refreshing drinking water at the point-of-use, whenever you need it.
- ▶ All units include hardware and materials needed for installation.
- ▶ Does not remove healthful minerals.
- ▶ Uses the exclusive three-stage, compressed, activated solid carbon block filter.
- ▶ Easy Filter Replacement
- ▶ Outstanding Customer Satisfaction Guarantee
  - 30 day money-back guarantee
  - 1 year warranty on all accessories
  - 25 year warranty on housing



# How the Filter Works

Compacted carbon block filters are designed and engineered to provide the utmost in performance, safety, and convenience. The replaceable triple-action filter is formulated of materials that will provide the highest quality drinking water without removing the healthful, natural minerals. The filter media combines mechanical filtration, electrokinetic adsorption, and physical adsorption to provide the most efficient contaminant removal possible.

## Mechanical Filtration

Water enters the filter through a graded density pre-filter, a special blend of materials which acquire a positive molecular charge in a moving stream of water. Since most colloidal and bacterial contaminants exhibit a negative charge in solution, the media fibers will electrokinetically adsorb charged colloidal particles too small for removal by mechanical straining. The media combines the technology of mechanical straining, for the removal and retention of solid and semi-solid contaminants that can cause premature clogging, and electrokinetic adsorption for the reduction of colloidal contaminants down to the sub micron range.

Then the water passes through the highly compacted solid carbon block filter media which is a blend of selected activated carbons and other media. The compacted solid carbon block filter media is designed to mechanically filter particles down to sub micron size, including microscopic organisms, cysts, asbestos, turbidity, and particulate matter down to 0.5 micron. By microstraining the water, only the cleanest, clearest water is delivered to the point-of-use.

## Chemical Adsorption

The components of the carbon block section of the filter are insoluble, and while themselves chemically inactive, some of the material exert a catalytic effect, inducing molecular changes in many chemicals contained within the water. It is through this chemical reaction and physical adsorption that chlorine, chloramine, certain pesticides, volatile organic chemicals, and dissolved metals are reduced.



## Features

The solid carbon block filters are exceptionally uniform and do not channel or bypass as conventional granular activated carbon filters (GAC) are known to do. Conventional GAC filters become incubators of bacteria, encouraging growth; however, the densely compacted carbon block filters eliminate this problem because there is no room for growth in the tightly compacted carbon.

Finally, the water passes through a pharmaceutical grade post-filter which provides integral strength to the carbon block section and prevents material degradation of the filter. The molded end caps seal the carbon block and assure the integrity of the seal between the filter and the housing.

## Performance

The unique formulation of the solid carbon block filters provide for the removal of substances that cause water to taste or smell bad as well as reduce a wide range of contaminants of health concern.

## Specifications

Housing Composition	Stainless Steel
Faucet/Spout composition	No Lead Stainless Steel
Rubber Items	Buna N & Nitrile
Inlet	1/8" Pipe
Outlet	1/8" Pipe
Replacement Filter	
Approximate Capacity	750 Gallons*
Approx. Flow Rate	.75 gpm @ 60 psi
Water Pressure	125 psi max/30 psi min
Weight (Basic Unit)	5 lbs.
Height	9.4 inches
Body diameter	6 inches
Particulate Retention Size	Sub Micron (0.5 micron)

*Not intended to be used where the water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.*

## Performance Certification

Product Performance Certified and Registered:

- UL's Environmental and Public Health Services Mark
- California Department of Health Services
- Iowa Department of Public Health
- State of Wisconsin, Bureau of Building Water Systems
- State of Massachusetts, Board of Plumbing
- State of Colorado, Department of Health, Drinking Water Program
- Water Quality Association Gold Seal

Tested and Certified by UL® (Underwriters Laboratories Inc.) to ANSI/NSF Standards 42 and 53 for the following claims:

- Asbestos Reduction
- Chloramine(monochloramine)
- Chlordane Reduction
- Chlorine, class I
- Cyst Reduction
- Lead Reduction
- Mercury Reduction
- MTBE Reduction
- Particulate matter, Class I (0.5 micron)
- PCB Reduction
- Toxaphene Reduction
- Turbidity Reduction
- Volatile Organic Compounds Reduction (listed below):

Alachlor	Haloketones (HK):
Atrazine	1,1-dichloro-2-propanone
Benzene	1,1,1-trichloro-2-propanone
Carbofuran	Heptachlor
Carbon Tetrachloride	Heptachlor Epoxide
Chorobenzene	Hexachlorobutadiene
Chloropicrin	Hexachlorocyclopentadiene
2,4-D	Lindane
Dibromochloropropane	Methoxychlor
o-Dichlorobenzene	Pentachlorophenol
p-Dichlorobenzene	Simazine
1,2-Dichloroethane	Styrene
1,1-Dichloroethylene	1,1,2,2-Tetrachloroethane
cis-1,2-dichloroethylene	Tetrachloroethylene
trans-1,2-dichloroethylene	Toluene
1,2 Dichloropropane	2,4,5-TP (Silvex)
cis-1,3-Dichloropropylene	Tribromoacetic acid
Dinoseb	1,2,4-Trichlorobenzene
Endrin	1,1,1-Trichloroethane
Ethylbenzene	1,1,2-Trichloroethane
Ethylene Dibromide (EDB)	Trichloroethylene
Haloacetonitriles (HAN):	Trihalomethanes (TTHM):
Bromochloroacetonitrile	Chloroform (surrogate chemical)
Dibromoacetonitrile	Bromoform
Dichloroacetonitrile	Bromodichloromethane
Trichloroacetonitrile	Dibromochloromethane
	Xylenes (total)

EPA Establishment Number 41130-CA-001

For more information, please send me an email at [waterfilters@valkenaar.net](mailto:waterfilters@valkenaar.net).