GET THE LEAD OUT OF YOUR SCHOOLS!

Replaces standard carbon filters

Gets >98% of the lead and other metals out

Kills bacteria and Viruses

PROTECTX

WATER SOLUTIONS

TRIPLE CLEAR FILTERS™

THE CHOSEN SOLUTION OF CHILDREN'S HOSPITAL OF PHILADELPHIA AND MANY OTHERS.

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PROTECT X

WATER SOLUTIONS

TRIPLE CLEAR FILTERS™

No other point of use filter eliminates metals!

- **Replaces standard carbon filters**
- **Gets >98% of the lead and other metals out**
- **Kills bacteria and Viruses**

- **simple to install**
- **Low Cost**
- **Point of use solution**
- **Medical grade**
- **Less maintenance than standard carbon filters**

How Lead Gets into Drinking Water

Lead can enter drinking water when plumbing materials that contain lead corrode, especially where the water has high acidity or low mineral content that corrodes pipes and fixtures. The most common sources of lead in drinking water are lead pipes, faucets, and fixtures.

Replacing lead pipes whether at the municipal level or within your facility is very time consuming, disruptive, and very expensive.

WHERE IS LEAD FOUND IN THE DRINKING WATER AT SCHOOLS AND OTHER FACILITIES?

- Water fountains
- Sinks
- Bottle Fillers
- Ice makers

Health Effects of Exposures to Lead in Drinking Water*

CHILDREN

Even low levels of lead in the blood of children can result in:

- Behavior and learning problems
- Lower IQ and hyperactivity
- Slowed growth
- Hearing problems
- Anemia

In rare cases, ingestion of lead can cause seizures, coma and even death.

*EPA stated

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Patented Technology Creates the Ultimate Filter for Water Purification & Filtration

Using electroadsorptive technology, our filters remove a wide range of submicron particulates, pathogens, trace pharmaceuticals, cellular debris, and heavy metals.

We do this using a combination of 400 layers of mechanical filtration and a naturally occurring positive charge field that essentially puts a "force field" over the pores that will attract and capture negatively charged contaminants in water (and most contaminants are negatively charged). It is like a magnet that attracts, captures, and kills the pollutants in water. Unlike other submicron filters, Force Field™ Filters have very little pressure drop making them the perfect choice for most plumbing applications.

How powerful is it?

Force Field™ Filters provide water quality on par only with Reverse Osmosis at a fraction of the cost and with none of the drawbacks. Independent laboratory tests have proven its ability to provide 4 and 6 log reduction of bacteria, virus, and cysts! It can also remove better than 99% of heavy metals like lead and chromium VI. Force Field™ Filters are the ultimate choice for providing safe water to your customers.

How does it compare to other water remediation technologies:

Water Remediation Technologies - Residential, Commercial, Industrial, Municipal, Desal

Contaminants	Force Field™ Pac Technology	RO	NF	UF	MF	Particulate Cartridges	Carbon Block	Ultra violet
Dissolved Salts		■						
Endotoxin	■	■	■	■	■	■		
Virus	■	■	■					■
Bacteria	■	■	■	■	■	■	■	■
Cysts	■	■	■	■	■	■	■	■
Polysaccharides (TEP)	■	■	■	■	■			
Colloids	■	■	■	■				
Particulates	■	■	■	■	■	■	■	
Chemical Reduction	■	■					■	■
Trace Pharmaceuticals	■	■					■	■

Membrane definition: Reverse Osmosis=RO; Nanofiltration=NF; Ultrafiltration=UF; Microfiltration=MF.

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CERTIFIED PERFORMANCE BY THIRD PARTY TESTING

Microbiological Threats

Testing by BCS Labs (1/2/14), #1401002

Challenge Species: ProtectX 2.5″ Force Field™ Gravity Camp Filters	Filter Influent Average Concentration	Percent removal of the challenge species by the filter initially and following the passage of the indicated volume (liters) of laboratory grade reagent water			
		1.0 liter	10.0 liter	25.0 liter	50.0 liter
Bacteria: Raoultella terrgena	3.45 x 10^5 cfu/ml	>99.9999%*	>99.9999%*	>99.9999%*	>99.9999%*
Virus: MS-2 Bacteriophage	3.45 x 10^5 pfu/ml	>99.9999%*	>99.9999%*	>99.9999%*	>99.9999%*
e: 3.0 micron microspheres	1.8 x 10^4 spheres/ml	>99.998%*	>99.998%*	>99.998%*	>99.998%*

* No species were detected in the filter effluent for the duplicate samples analyzed. Filter effluent samples were analyzed in duplicates at the minimum following collection.

Heavy Metals

Metal Species	Influent Concentration (ppm)	Filter #1 Effluent following passage of 100 gallons water; BCS 1407065		Filter #2 Effluent following passage of 100 gallons water; BCS 1407066		Cumulative % Reduction
		Concentration (ppm)	% Reduction	Concentration (ppm)	% Reduction	
Arsenic (As)	.011	0.0052	95.3%	<0.0040**	>96.4%**	95.9%
Barium (Ba)	.011	0.01	90.9%	0.0054	95.1%	93.0%
Cadmium (Cd)	.010	<0.0010**	>99.0%**	<0.0010**	>99.0%**	>99.0%**
Chromium (Cr)	.015	<0.0020**	>98.7%**	<0.0020**	>98.7%**	>98.7%**
Lead (Pb)	0.084	<0.0022**	97.4%**	0.0027	96.8%	97.1%
Mercury (Hg)	0.140	0.069	50.7%	0.056	40.0%	45.4%
Selenium (Se)	.011	<0.0050**	>95.5%**	<0.0050***	>95.5%**	>95.5%**
Silver (Ag)	0.064	0.0049	92.3%	<0.0010**	>98.4%**	95.4%

** The species was not detected in the effluent.

Other Contaminants

- PCB's Remove to 99+%
- Antibiotics Remove to 99+%
- Bisphenol A (BPA) remove to 99+%
- TEP remove to 99+%
- Chlorophyll remove to 99+%
- Trace Hydrocarbons remove to 99+%)

Specifications

- Max Operating Temp: 160F
- Max Flow Rates: 2gpm to 45gpm (per filter)
- Nominal Dimensions: 5″, 10″, 20″, 30″, 40″ Length, 2″-7″ diameter
- Micron: Effective micron rate .001
- Endcaps: 222, 226, DOE

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