



DISCOVER

PURE  WAY

powered by  Toppen

Protect Your Whole House

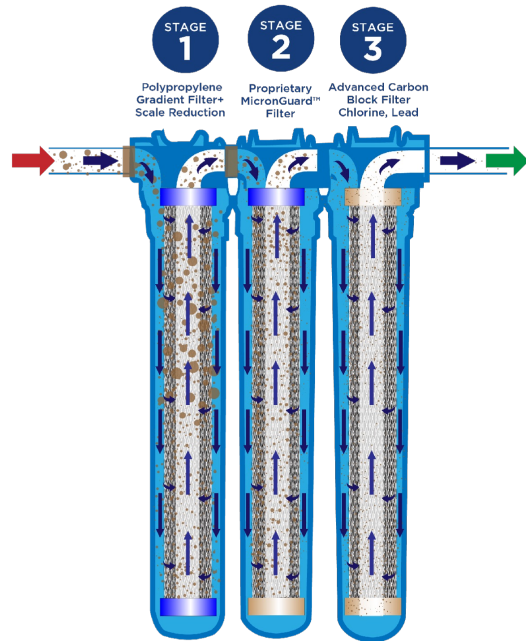


UltraSafe Trio™

Protect Your Whole House

UltraSafe Trio connects directly to your water main and uses proprietary MicronGuard filtration technology to give your family industry-leading protection against harmful contaminants and more.

UltraSafe Trio™



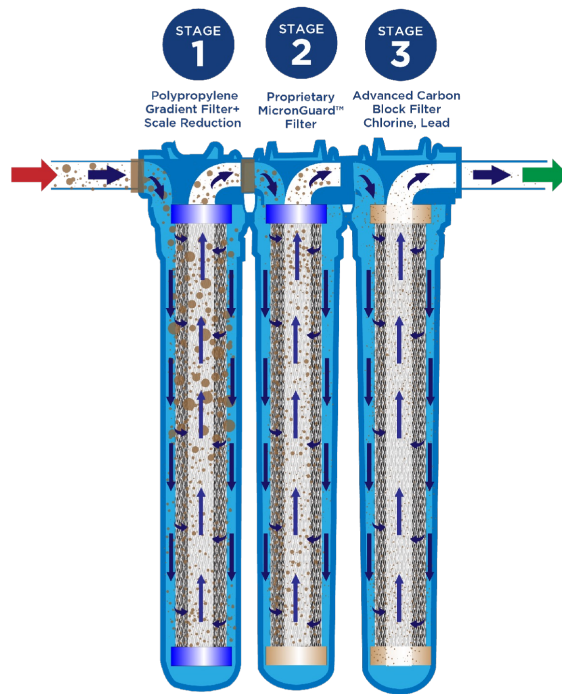
Removes in excess of:

- 99.99% Chlorine Reduction/Removal
- 99.99% Chloramine Reduction/Removal
- 99.99% THMs Reduction/Removal
- 99.99% Pesticides Reduction/Removal
- 99.99% Bacteria Reduction/Removal
- 99.99% Virus Reduction/Removal
- 99.99% Cysts Reduction/Removal
- 99.99% Arsenic Reduction/Removal
- 95% PFAS, PFOA, PFOS Reduction/Removal
- 97.2% Lead Reduction/Removal

Bonus: Scale removal and water softening

Whole House Ultrafiltration + Process

UltraSafe Trio™



Pure Way Whole House System

- LOW COST
- SMALL Footprint
- No Electrical connection
- No Chemicals required
- No Operating Expertise needed
- No Waste-line connected needed
- High Flow Rate with Ultra Filtration!

Our MicronGuard™ allows us to combine:

- Activated Carbon
- Mechanical Filtration
- Sorbent Filtration
- Membrane Filtration
- Water Conditioning
- U.V. Simulation

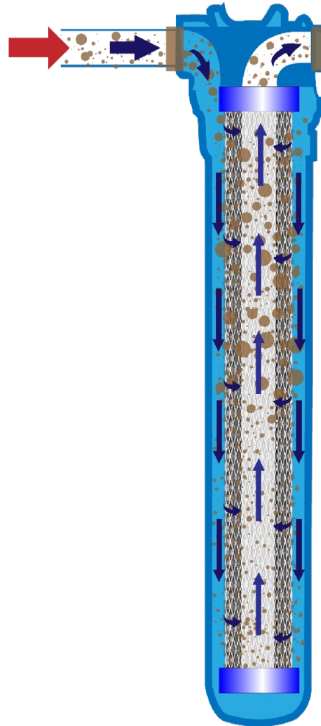
Into ONE complete system with no controller

Whole House Ultrafiltration + Process

STAGE
1

Polypropylene
Gradient Filter+
Scale Reduction

UltraSafe Trio™



Stage 1 uses a multi faceted filter to filter out large particles greater than 5 micron and to condition the incoming water so it can no longer form calcium carbonate. This filtration process extends the life and reduces maintenance of the MicronGuard™ element in the next stage.

- Filters out sediment
- Conditions water so glasses and faucets remain spotless

Softening VS Anti-scale

Softeners for homes are used to stop calcium carbonate build up on water fixtures and to aid soaping in water

	HOW IT WORKS	CALCIUM	REGENERATION	WATER USEAGE	CALCIUM CARBONATE	MINERALS	REGENERATION WASTE	WASTE OUTLET PLUMBING	BIOFILM GROWTH
Water Softener	Exchanges sodium ions for calcium ions	Removes all calcium and lots of magnesium	Requires regeneration with heavy salt solution frequently	Requires water rinse after regeneration wasting 3-5% of water	Stops calcium carbonate build up on water fixtures	Water becomes unhealthy due to lack of critical minerals and added salt	Regeneration wastewater with high salt content damages groundwater	Must be plumbed to the waste outlet (sewer)	Causes acceleration of biofilm growth in exchange tanks
Anti-Scale	Alters calcium ion so cannot form calcium carbonate	Leaves calcium and magnesium in filtered water	No regeneration	No rinse step	Stops calcium carbonate build up on water fixtures	Water maintains mineral content, remains healthy	No wastewater (no salt)	No sewer waste connection required	No biofilm due to MicronGuard™ filter design



Softening

VS

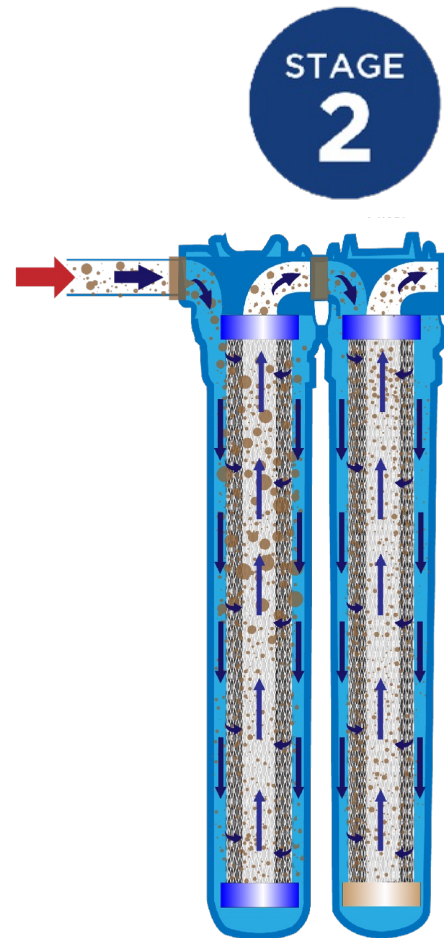


Anti-scale

Highlights

- Ultrafiltration+ is a wall unit – no floor space needed
- No environmental damage from salt discharge
- Health benefits of calcium and magnesium. No high sodium levels in drinking water
- Health benefits of siliphos

Whole House Ultrafiltration + Process



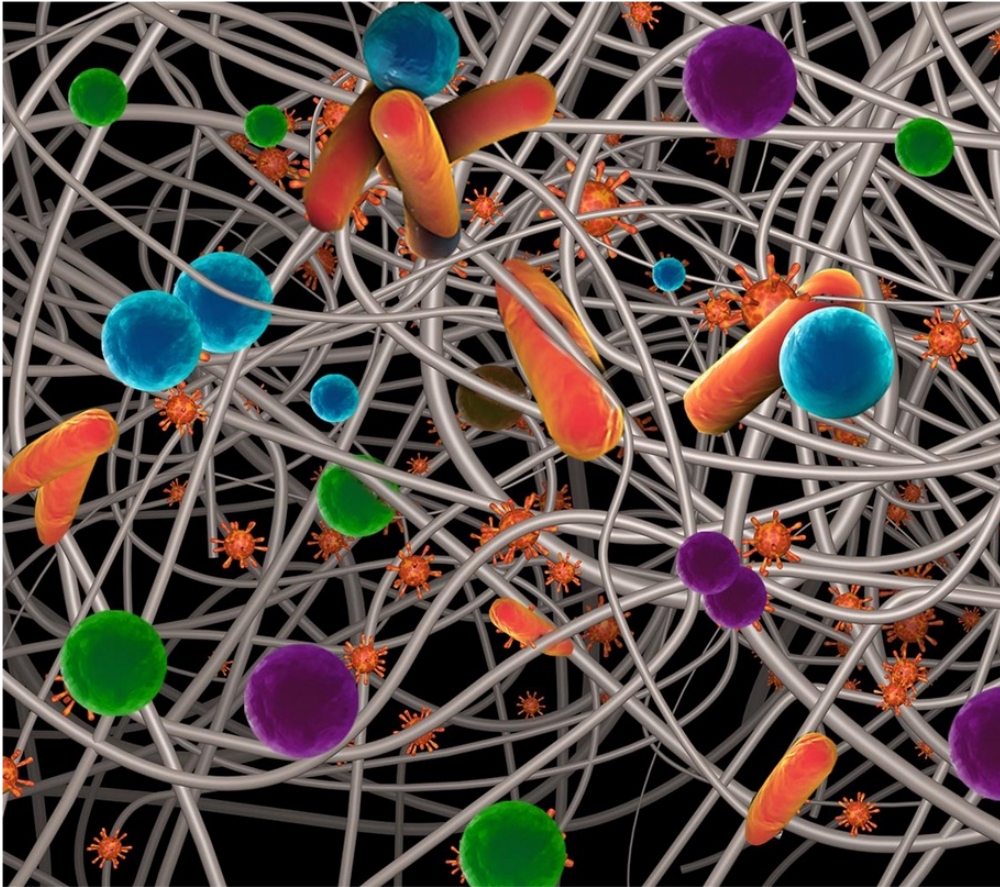
Proprietary
MicronGuard™ Filter

UltraSafe Trio™

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micron
GUARD
TECHNOLOGY

Stage 2 uses the proprietary MicronGuard™ technology to filter out bacteria, viruses, cysts, spores, and other pathogens. It is engineered with an activated carbon high surface area paper to reduce pathogens, pesticides, pharmaceuticals, forever chemicals (PFOA/PFOS), and heavy metals (including lead). Incorporates Agion silver particles to keep filter from biofouling mimicking U.V.

Ultrafiltration w/ MicronGuard™ Breakthrough Technology



Stage 2 MicronGuard filter requires less than 2 psi

- Exceeds nanofiltration results at low pressure:
- 99.9999999% bacteria removal (>9 LRV*)
- 3rd party testing conducted at two different laboratories**
- 1.36 psi over 3-filter whole house system
- 99% reduction of heavy metals (includes 97.2% lead reduction)
- 95% reduction of PFAS (forever chemicals, PFOA/PFOS)
- No water loss (no back flushing or wastewater generated), unlike RO systems
- Does not need to be plumbed to septic or municipal wastewater outlet
- Extremely low pressure drop versus 30-40 psi drop with other whole house systems
- 10x dirt holding capacity than mechanical filters (spiral wound, polypropylene, etc.)
- Affordable, low maintenance, installs easily, all parts included, no electrical or waste connections

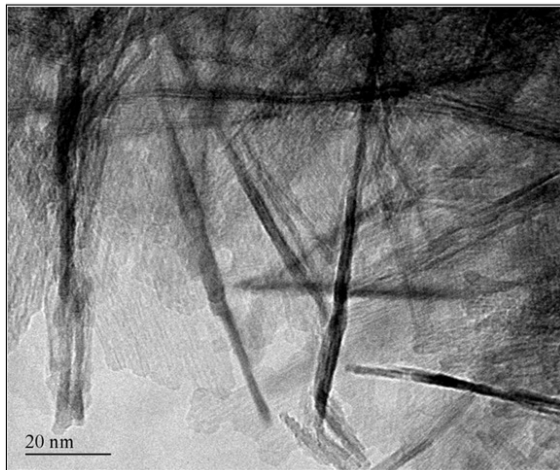
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MicronGuard™ - Design at the molecular level

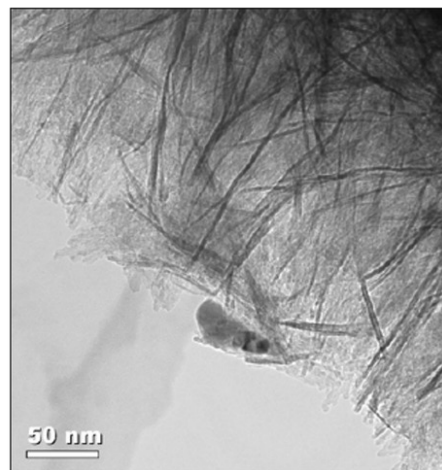
MicronGuard™

vs

Reverse Osmosis



Electron microscopy of media (20 nm)



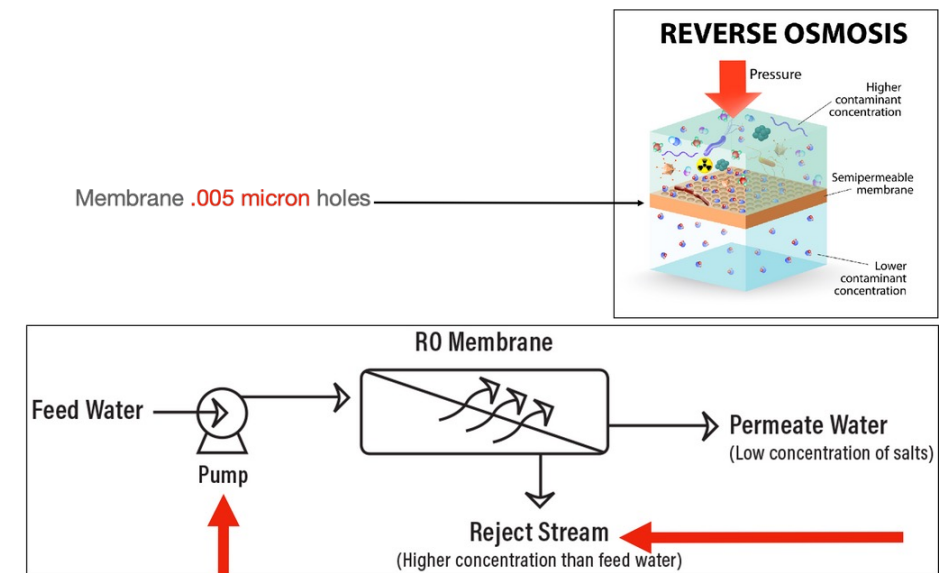
Electron microscopy of media (50 nm)

To produce a filter that can be used to replace membranes using no electricity and used virtually no pressure required thinking at the molecular level.

A filter media was developed to provide a tortuous water path without establishing a physical barrier to the water. Pathways average 2.5-3.0 micron

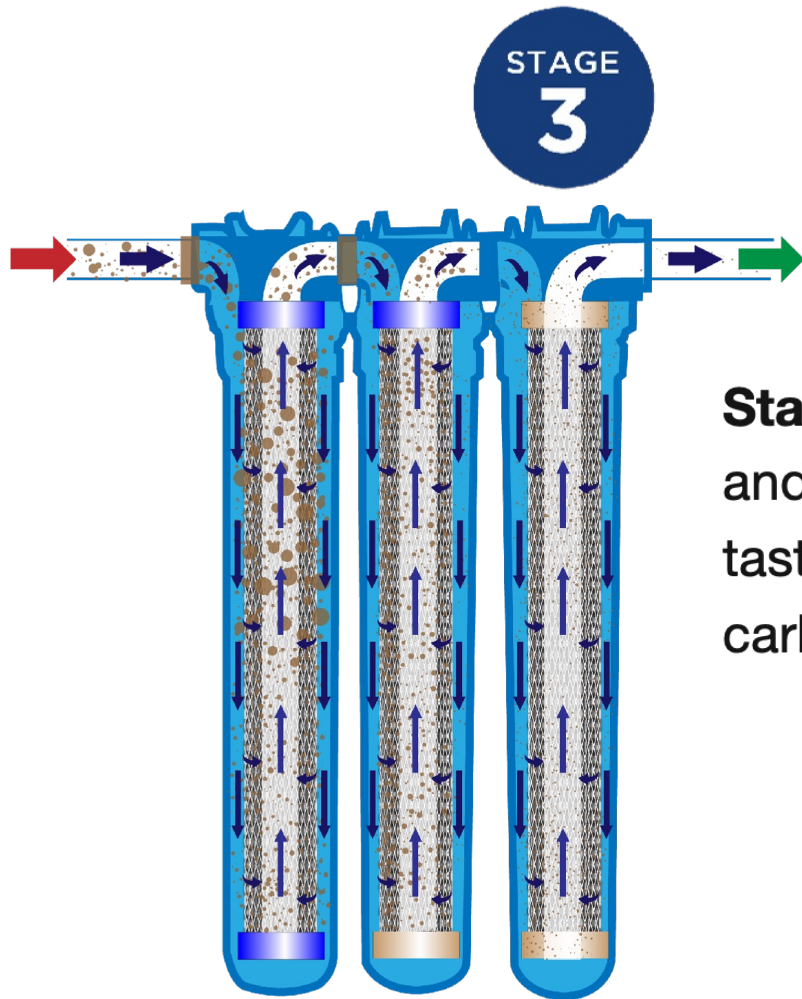
- HIGH water flow rate
- Low Pressure requirement
- No Electric Connection Needed
- No Wastewater Connection Needed

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- LOW water flow rate
- High Pressure Pump Needed
- 240V Electrical Needed
- High Electric Draw
- Wastewater Connection Needed

Whole House Ultrafiltration + Process



Advanced Carbon
Block Filter
Chlorine, Lead

UltraSafe Trio™

Stage 3 Final polishing of PFOA/PFOS, lead, chlorine, pesticides, and other contaminants with a high-capacity carbon filter. Improves taste and smell of water. This carbon will outperform similar carbons due to the purity of water at this step of the process.

Ultrafiltration+ Test Data on Biologicals

Unit	Flow Rate, LPM	Flow Velocity ^a LPM/cm ²	P, psi	Removal efficacy of RT, LRV	Removal efficacy of MS2, LRV
U1S 1	3.2	0.002b	2.0	>9	>7

Note: Influent CFU count = 15,000,000 CFU

Pesticide Contaminants

Contaminant	Influent Concentration in ug/l	Treated Concentration in ug/l	Reduction %
4,4, DDD	50.1	<0.1	99.9
4.4 DDE	50.2	<0.1	99.9
4,4 DDT	50.1	<0.1	99.9

Volatile Organic Contaminants

Contaminant	Influent Concentration in ug/l	Treated Concentration in ug/l	Reduction %
1,1,1,2Tetrachloroethane	79.8	<0.5	99.9
1,1,1-Trichloroethane	81.2	<0.5	99.9
1,1,2,2-Tetrachloroethane	81	0.1	99
1,1,2-Trichloroethane	150.3	<0.5	99.9
1,1-Dichloroethane	80.2	<0.5	99.9
1,1-Dichloroethane	81	<0.5	99.9
1,1-Dichloropropene	81.2	<0.5	99.9
1,2,3-Trichlorobenzene	80.1	0.7	99.1
1,2,3-Trichloropropane	80.2	<0.5	99.9
1,2,4-Trichlorobenzene	160.1	<0.5	99.9
1,2,4-Trimethylbenzene	80.5	<0.5	99.9
1,2-Dichlorobenzene	80.3	<0.5	99.9
1,2-Dichloroethane	80.4	<0.5	99.9
1,2-Dichloropropane	80.3	<0.5	99.9
1,3,5-Trimethylbenzene	80.3	<0.5	99.9
1,3-Dichlorobenzene	80.1	<0.5	99.9
1,3-Dichloropropane	79.1	<0.5	99.9
1,4-Dichlorobenzene	40.3	<0.5	99.9
2,2-Dichloropropane	81.1	<0.5	99.9

2-Chlorotoluene	80.2	<0.5	99.9
4-Chlorotoluene	80.2	<0.5	99.9
4-Isopropyltoluene	80.2	<0.5	99.9
Benzene	81.4	<0.5	99.9
Bromobenzene	80	<0.5	99.9
Bromochloromethane	80	<0.5	99.9
Bromodichloromethane	80.2	<0.5	99.9
Bromoform	80.2	<0.5	99.9
Bromomethane	80.1	<0.5	99.9
Carbon Tetrachloride	81	<0.5	99.9
Chlorobenzene	79.5	<0.5	99.9
Chloroethane	80.2	<0.5	99.9
Chloroform	80.1	<0.5	99.9
Chloromethane	80.1	<0.5	99.9
cis-1,2-Dichloroethene	170.1	<0.5	99.9
cis-1,3-Dichloropropene	50.2	<0.5	99.9
Dibromomethane	80.1	<0.5	99.9
Dichlorodifluoromethane	80.0	<0.5	99.9
Ethylbenzene	82.0	<0.5	99.9
Hexachlorobutadiene	44	<0.5	99.9
Isopropylbenzene	80.3	<0.5	99.9

Volatile Organic Contaminants (continued)

Alachlor	40.2	<0.1	99.9
Aldrin	50.2	<0.1	99.9
Alpha-BHC	50.8	<0.1	99.9
Ametryn	50.0	<0.1	99.9
Atraton	50.2	<0.1	99.9
Atrazone	10.0	<0.1	99.9
Beta-BHC	50.9	<0.1	99.9
Bromacil	51.2	<0.1	99.9
Carbofuran	80.2	<0.1	99.9
Chlordane	40.2	<0.1	99.9
Chlomeb	51.0	<0.1	99.9
Chlorobenzilate	49.9	<0.1	99.9
Chloroethanol	50.2	<0.1	99.9
Chloropropane	50.2	<0.1	99.9
Chlorpyrifos	50.3	<0.1	99.9
Cyanizene	50.1	<0.1	99.9
Delta-BHC	50.7	<0.1	99.9
Dichlorvos	50.2	<0.1	99.9
Diphenamid	50.2	<0.1	99.9
Disulfoton	50.2	<0.1	99.9
Endosulfan Sulfate	50.0	<0.1	99.9
Endrin	6.0	<0.1	99.9
Endrin Aldehyde	50.5	<0.1	99.9
Endrin Ketone	50.0	<0.1	99.9
Endosulfan I	49.8	<0.1	99.9
Endosulfan II	50.3	<0.1	99.9
Ethoprop	50.4	<0.1	99.9
Fenamiphos	50.2	<0.1	99.9

Metal and Chemical Element Contaminants

Water Contaminant	Influent Concentration in ug/l	Treated Concentration in ug/l	Reduction %
Antimony	6.1	<0.5	99.9
Arsenic	50.0	<0.5	99.9
Beryllium	50.0	<0.5	99.9
Bismuth	50.0	<0.5	99.9
Cadmium	50.0	<0.5	99.9
Chromium	50.0	2.6	99.1
Copper	50.0	5.2	99.8
Iron	50.0	101	96.7
Lead	50.0	4.14	97.2
Manganese	50.0	150	85.8
Mercury	50.0	<0.5	99.9
Nickel	50.0	<0.5	99.9
Selenium	50.0	<0.5	99.9
Zinc	50.0	21.1	80.8

Metal and Chemical Element Contaminants (continued)

Methylene Chloride	81.2	1.04	98.8
MTBE	81.5	1.83	97.8
m-Xylene	70.1	<0.5	99.9
Naphthalene	80.4	1.4	98.3
n-Butylbenzene	80.2	<0.5	99.9
n-Propylbenzene	80.2	<0.5	99.9
o-Xylene	70.1	<0.5	99.9
sec-Butylbenzene	80.3	<0.5	99.9
Styrene	80	<0.5	99.9
tert-Butylbenzene	80.2	<0.5	99.9
Tetrachloroethene	80.1	<0.5	99.9
Toluene	80.2	<0.5	99.9
trans-1,2-Dichloroethene	80.5	<0.5	99.9
trans-1,3-Dichloropropene	81	<0.5	99.9
Trichloroethene	180.3	<0.5	99.9
Trichlorofluoromethane	80.1	<0.5	99.9
Vinyl chloride	80.3	<0.5	99.9

Metal and Chemical Element Contaminants (continued)

Fenarimol	50.2	<0.1	99.9
Fluoridone	50.4	<0.1	99.9
Gamma-BHC	2.0	<0.1	99.9
Glyphosate	800	<0.1	99.9
Heptachlor	80.0	<0.1	99.9
Heptachlor Epoxide	4	<0.1	99.9
Methoxychlor	120	<0.1	99.9
Molinate	50.4	<0.1	99.9
PCB'S	10.1	<0.1	99.9
Prometron	50.0	<0.1	99.9
Simazine	12.0	<0.1	99.9
Toxaphene	15.1	<0.1	99.9

Critical Claims: Bacteria (ignore boil orders), viruses, cysts, spores, lead, PFOS/PFOA, pharmaceuticals, pesticides, chlorine, suspended solids

PURE WAY

powered by Toppen

STANDARD



\$2,499

2.5 x 10' System
1-2 People

PREMIUM



\$3,499

2.5 x 20" System
3-4 People

GOLD



\$4,499

4.5 x 20" System
5+ People

POINT OF USE



- 99.99999% **bacteria** removal (>7 LRV*)
- 97.2% **lead** reduction
- 99% reduction of other **VOCs**
- **Particulate** reduction
- **Additional Benefits**
 - No storage tank required
 - No additional faucet
 - Easy to install

CONDOS



BOATS



RVs

