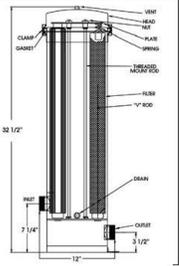


# What's IN Your Water? VOC & PFAS chemicals

- Are you water independent? Do you carry your own filtered water with you?
- Are you showering in a chemical soup? Does your water taste or smell bad?
- Do you know that bottled can be less reliable than tap water?
- Do you know that showering admits more chemicals into your body than any other source?
- Do you know that dangerous PFAS “forever chemicals” are in all water supplies in the USA?
- Do you know that Chlorinated water is destroying your clothes every time you do laundry?
- Even If you are in a remote area, naturally occurring chemicals such as Arsenic and farm chemical runoff are in your water. These are some of the worst hazards to your health.

*Do you know that wherever you live, there is a single solution Whole House Water Filter for your entire home?*

**CLICK HERE to purchase → [jmccwaterfilters.com](http://jmccwaterfilters.com)**

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*MR5 with 304 Stainless Steel housing – contains 5 High Capacity Filter Elements*

*For Removal of PFAS and VOC chemicals, heavy metal, hazardous materials – Optional UV filter*

*Read below - Pamphlet on PFAS, VOC and other pollution – “What’s in Your Water” ©2021*

**See Chapters 1 to 4 below**



# What's IN Your Water? VOC & PFAS chemicals

## Chapter 1 – Modern and Naturally occurring Pollution is everywhere

Every source of water today has some form of pollution. After working in the water filtration industry for over 20 years, we have seen the water situation become more and more disturbing. Government agencies have followed “standards”, allowing pollution to continue unabated. They are essentially selling licenses to pollute. This pollution is cumulative so over time the industrial chemicals, heavy atoms, pharmaceuticals, petroleum extracts, household products from kitchen soaps to bathroom cleaners to Teflon in the pans you cook in ... yes all of this ends up in the water supply.

Take pharmaceuticals for example. All of the drugs that have ever passed through the countless drug store are now in the water table. These are drugs that have very long shelf lives and do not break down with time. Every time you take a drink of tap water or take a hot shower, you are getting a dose of these health damaging chemicals that are in the water table. Even though your water looks clear, these chemicals are hidden invisibly in every drop.

The most recent realization on the national level is with PFAS “forever chemicals” (the topic of the next chapter). These come from industrial waste and from the wide spread use of materials such as Teflon that coated pans and cookware decades ago. In this pamphlet we will take you on a journey through the country’s water supplies and the health risks that they pose. We will examine both cities that have very bad water pollution as well as some of the most remote rural areas. We used to provide a service for individuals who would supply their zip code and the name of their municipal water supplier. We would then go into a new government data base on levels of pollution to produce a report.

But we stopped this service because the water EVERYWHERE was so polluted that we just started to tell everyone they had to start filtering their entire house water supply with our MR5 Whole House Water Filter. The MR5 is designed with “targeted filtration” to specifically remove the very long list of pollutants. These can be categorized in groups and chemical structures. The next problem we had as a business was ramping up production to meet a national crisis so that every home could afford our filters. We are now at the stage where we can 1) effectively remove to a high percentage all of the pollutants and 2) meet the large market demand. Our MR5 product now costs 50% of it did just 2 years ago.

We created a series of products from small to large commercial systems and settled on one that will meet the needs of 99% of all houses in the USA. This is the JMCC Water Filters MR5 Whole House Water Filter. In the next few pages, we will take you through the polluted USA water supplies. You will see why this superior product will meet the stringent needs of the public who is in severe risk from contaminated water. The last chapter will be an expose on water filters and what you have to beware of. There are many products and false claims. So, fasten you seat belts, grab a cup of coffee and let’s travel out into the USA water supplies to see what we can find.



# What's IN Your Water? VOC & PFAS chemicals

## Chapter 2 – PFAS “Forever Chemicals” are everywhere

When water goes to the municipal “treatment plant” or your own private septic system, there is a misconception that the water is “purified” and then returns to rivers and the water table. The reality is that they only break down the human waste and ALL of the chemicals, pollutants, YES and pharmaceuticals etc. are not treated at all. These chemicals typically have long life times. They accumulate in the water supply, surface water or deep wells after leaving the “treatment plant”.

We will start with the one of the worst and most pervasive chemicals to ever meet the water table. It is a family of chemicals called PFAS chemicals. The most common household example is Teflon.

### **What are PFAS?**

Perfluoroalkyl substances (PFAS) are very stable manmade chemicals that have properties that allow them to repel both water and oil. The different PFAS have different lengths and/or differ in their properties at one end, which can change the toxicity of the chemicals. The most commonly found and best studied PFAS are perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS).

### **Where are they found?**

The fat and water repelling properties of these substances allowed them to be applied to almost any material to make it water, oil, and stain repellent. These properties were first used commercially in the 1950s, and they are used in a wide variety of consumer products, including carpets, clothing, non-stick pans, paints, polishes, waxes, cleaning products, and food packaging. Firefighters and the military use them in fire-suppressing foam.

PFAS do not readily breakdown in the environment and are water soluble. As a result, there are very low levels of PFAS in many areas of the environment. Higher levels can be found in water supplies near facilities that manufactured, disposed, or used PFAS.

### **How can I be exposed to PFAS?**

Exposure to PFAS could occur through: public water systems and drinking water wells, soil, and outdoor air near industrial areas with frequent PFAS manufacture, disposal, or use indoor air or dust in spaces that contain carpets, textiles, and other consumer products treated with PFAS to resist stains surface water (lakes, ponds, etc.) or groundwater receiving run-off or seepage from areas where firefighting foam was often used (like military or civilian airfields) fish from contaminated bodies of water food items sold in marketplace food packages

As you can see, PFAS chemicals have to be removed from your water supply. Mothers and children are particularly susceptible to the health problems associated with PFAS.

### **How do unborn babies and young children get exposed to PFAS?**

Unborn babies can be exposed to PFAS through umbilical cord blood from their mothers during pregnancy. Newborns can be exposed to PFAS through breast milk or through formula made with water that contains PFAS. Older children may be exposed to PFAS through food, water, and other products, similar to adults. Young children have a higher risk of exposure to PFAS from carpet and cleaning products, largely due to time spent lying and crawling on floors in their early years.

EPA has issued guidance to state and local governments and public water providers about levels of PFOA and PFOS in drinking water and groundwater that are potentially concerning. Many states are passing laws that require water providers to keep the concentration of these compounds below that level. The only problem is that implementing these guidelines on a municipal level may take years and require local expenditures which may change the guidelines.

### **What steps should I take? We know that concerning levels of PFAS have been detected in the majority of house water supplies in the USA.**

To minimize risk: DO NOT boil your water. Boiling water will concentrate these chemicals. Reduce your risk of exposure to these chemicals by using a Whole House water filter **designed to reduce these chemicals to minimal levels**. Bottled water many times can be worse than tap water. If you must use a humidifier, only use water from a safe filtered source. Parents of formula-fed infants should use filtered water only. The greatest risk is when taking a shower without a whole house water filter. The small shower screw on filters you purchase at the big box store are not designed to remove PFAS or other chemicals and have very short life times. The JMCC Water Filters MR5 filter is designed to reduce PFAS and other chemicals to safe levels.

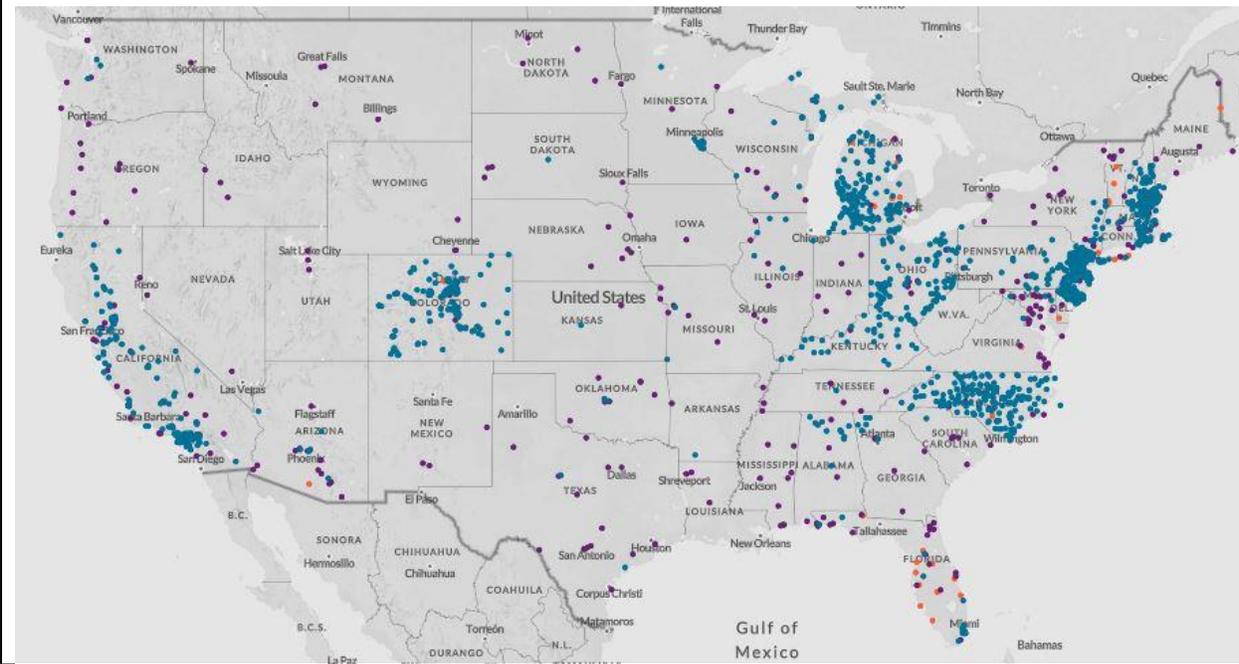
Here are some of the scientifically studied effects of PFAS in animals and humans

- cause developmental effects in infants
- lower a woman's chance of getting pregnant
- increase a woman's blood pressure during pregnancy
- lower infant birth weights
- interfere with the body's natural hormones
- increase cholesterol levels
- affect the immune system
- increase the risk of cancer

### **Is it safe to breastfeed my baby?**

Breastfeeding is associated with numerous health benefits for infants and mothers. The science on the health effects of PFAS for mothers and babies is evolving. However, given the scientific understanding at this time, the benefits of breastfeeding your baby outweighs those of not breastfeeding. Do not gamble with your baby's health either pre-natal or post-natal. Removing PFAS chemicals from your water to protect you and your family is important. From the time the mother becomes pregnant to delivery, the baby is taking all nutrients from the mother and therefore mothers especially should be drinking and showering in water free from chemicals. You receive more chemicals during a shower than any other source of pollution.

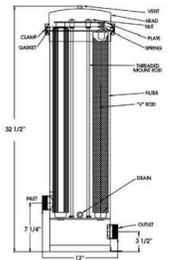
Besides being in food raised from ground water and municipal water supplies, there is an understanding that almost all ground water in the USA has been contaminated. The following map shows the locations where high concentrations of PFAS chemicals have been confirmed. These include all major metropolitan city water supplies. There is an increasing realization that these chemicals have been in the water tables for decades and have moved into rural areas surrounding these metropolitan areas. Long term health affects are known and you have to remove these chemicals from your water before you drink, cook, wash vegetables and fruits, water a garden AND MOST OF ALL TAKING A HOT SHOWER. Showering accumulates more chemical intake in the body than any other source as it is absorbed through the skin and by breathing in the warm water vapor. That is why you need a whole house water filter to remove these for all water use in your house. Is your location on the PFAS map below? If so, you need a JMCC Water Filters MR5 Whole House Water Filter designed to remove these chemicals. A simple water softener will not remove PFAS chemicals.



What is the solution?

The JMCC Water Filters MR5 Whole House Water Filter will remove to high levels using the EPA recommended methods of removal, in addition to thousands of other chemicals and pollutants.

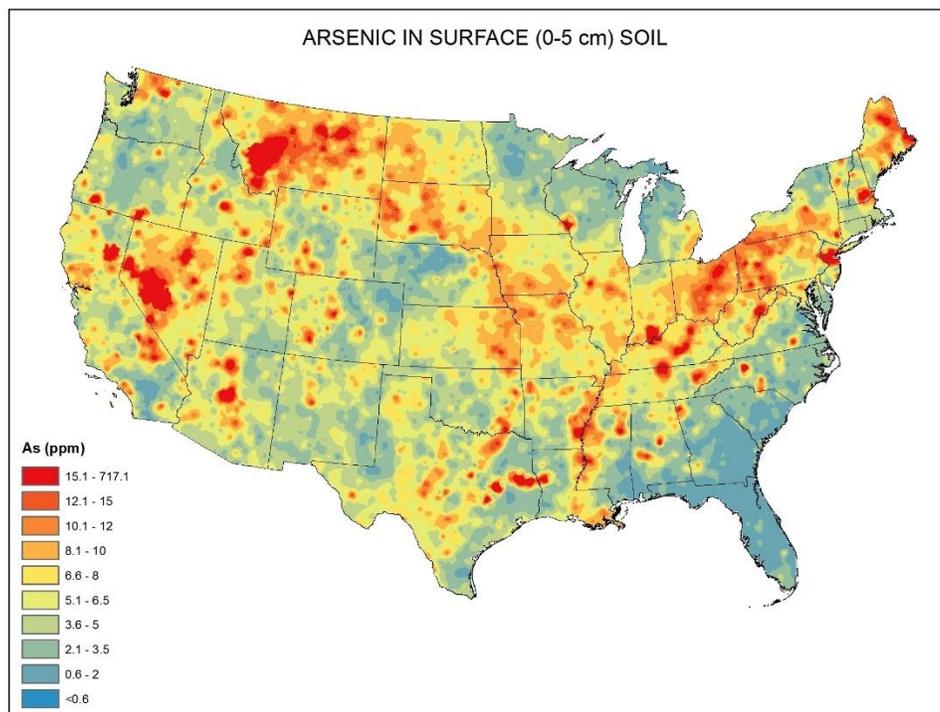
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# What's IN Your Water? VOC & PFAS chemicals

## Chapter 3 – Other forms of Pollution

We have examined water supplies of cities as well as the most remote locations and found high levels of toxins almost everywhere. Many people think that if they live in a remote location that the ground or surface water is safe. It is safe to say that if you have pollution free water, you are in the minority of households. Here is a map for example of the United States for Arsenic, a toxin found naturally in ground water. Some areas have so much that the water is literally toxic and cannot be used for municipal water supplies. See if your area is on this map. Arsenic is a cumulative chemical in the body and highly toxic. Many water filter products DO NOT remove arsenic or require an expensive secondary filter stage just to remove arsenic. The JMCC Water Filters product line including the MR5 Whole House Water Filter specifically removes arsenic to high levels in a single filter (no add ons or secondary filtration necessary). On the map if your area is yellow, orange or red you need a whole house filter.



We now move on to the many other chemicals that you will encounter in water supplies. This list is from our water filter testing for “targeted filtration”. We examined the thousands of chemicals that are

found in water supplies and created a filter product that meets national standards for removal of toxic substances. Note that the optional UV final filter has a roll also. What this means is that we have adopted the filtration standards in the materials used in JMCC Water Filters that have been tested and rated by national standards. In the next chapter we will discuss filtration and filtration products.

This is truly “the good, the bad and the ugly”. When you finish reading this pamphlet you will understand the water filtration industry and the products that are available to the homeowner. You will also find that the JMCC Water Filter product line has evolved over the past 20 years to be the best and lowest priced product on the market. Now take a look at “What’s In Your Water”. Within each category are tens of thousands of chemicals all of which are bad for your health. Remember that the MR5 filter uses a 2 step process. The outer shell has a less than 0.1 micron filter pore size to remove any particles including bacteria larger than this size. In the middle of the filter is a “medium” specially formulated to remove the following list of dissolved toxins (these are in solution in the water).

**The JMCC Water Filter HI line of filters are a two part filter made from consistent outer shell providing less than 0.1 micron pore size and internally have a proprietary mixture of materials that remove in solution pollutants. The filters do not remove minerals which are not toxic and necessary for good health. The filters also remove any gasses improving taste and odor as well as reducing chlorine, chloramine, volatile organic compounds, MTBE, lead, mercury, asbestos, arsenic and fluoride. The outer shell is designed to remove suspended solids, pathogenic bacteria and cysts. The JMCC Water Filters “HI” filters are available in the following sizes (see also optional UV final filter to kill bacteria and viruses).**

**- 5” for the 1 and 2 liter personal filters**

**- 7” “HI” replacement filters element fit all commercially available gravity water filters on the market today using the latest Ultra Fiber technology with our proprietary medium**

**- High Pressure filter for the “Faucet on Demand” filters (for stainless above sink model)**

**- 20” High Pressure filter for the MR5 Whole House filter (uses five 20” filter elements)**

#### **JMCC WATER FILTERS “HI” filters – Contaminant Removal Specifications**

**Pathogenic bacteria—>99.9999%**

**Cholera, Typhoid, Salmonella, E. Coli, Fecal Coliform**

**Cysts—100%**

**Cryptosporidium Parvum, Giardia Lamblia**

**Sediment—100% absolute to 0.1 micron**

**Chloramines—>99%**

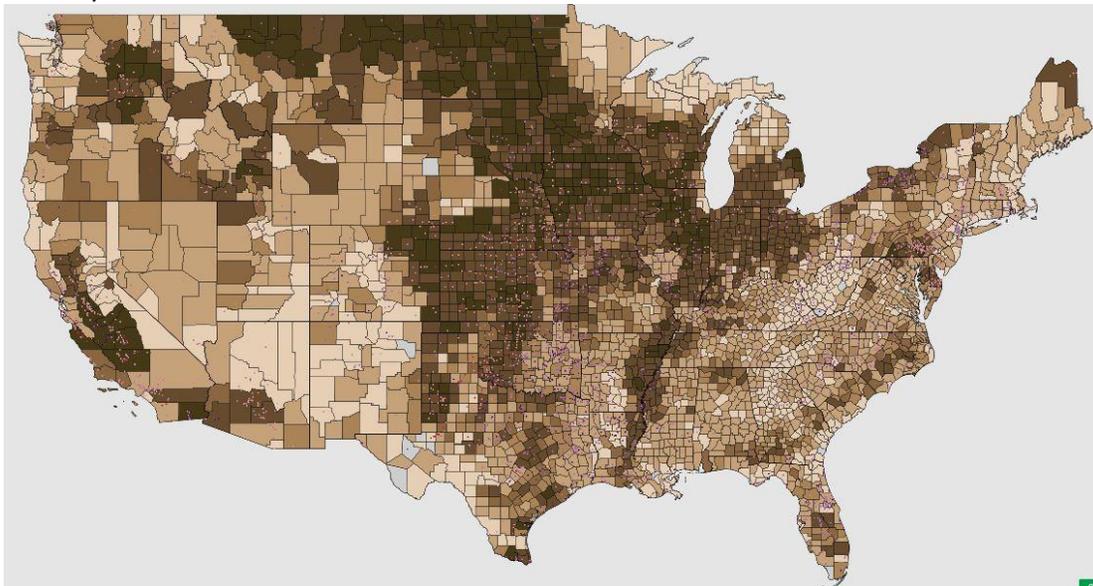
**Chlorine—>99%**

**Lead—>99%**

**Fluoride— >97%**

**VOC—Volatile Organic Compounds (thousands of chemicals) —>98%**  
**Metals—Aluminum, Iron, Mercury, Nickel & Zinc, radioactive chemicals—>98%**  
**MTBE—>97%**  
**Arsenic—>95%**  
**Glyphosate and farm run off (Round Up)—>99.9%**  
**Pharmaceutical Compounds—Acetaminophen, Progesterone, Ibuprofen, Naproxen Sodium—>95%**  
**Herbicides—>99%**  
**Nitrates—>92%**

The last items in the list above are Glyphosate (Roundup), Herbicides, and Nitrates. These mainly come from farming runoff. The following map shows levels of ground, surface and well water pollution in your area due to farm chemical runoff. Our MR5 filter removes these to safe levels.

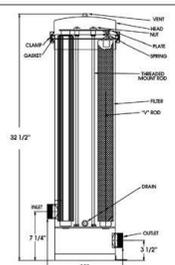


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 Built-In Pressure Gauge / Built-In Pressure Release





# What's IN Your Water? VOC & PFAS chemicals

## Chapter 4 – Water Filtration – Facts and Myths

The water filtration industry is large and worldwide in scope. There are literally thousands of products to choose from. Many were created long before the dire modern pollution levels existed and are still sold for kitchen, home and industry. Very few will remove chemicals or even naturally occurring arsenic. Most commercially available water filters use inexpensive granular charcoal as the filtering agent and will not remove the majority of pollutants in today's water supplies (including PFAS). A cheap plastic product with charcoal powder from the big box store or Amazon is NOT a solution. Some even advertise that their filters pass fluoride "for your health" or to "help your teeth". You must remove fluoride.

You need a real filter made from stainless steel **at the entry point of water in the house or business**. Both hot and cold water will then be filtered for the kitchen, bathroom sink, shower, laundry, animals, plants, garden ... the WHOLE HOUSE. This filter has to have multiple **large** filter elements with stringent standards. There are 14 major properties of a good filter (see table below for filter comparison). Note that at JMCC Water Filters we could sell all of the products listed in the table below but we do not. We only sell our own filters including the MR5 Whole House Filter. These are sold only on our web page (never on amazon or big box stores). We ship from our warehouse direct to your door (no middleman).

It will take the homeowner or plumber about 2 hours to install. People handy with plumbing can easily install the MR5. Your total cost will be \$1766 (see sale pricing) plus installation to have complete water freedom. It is a good idea to purchase a set of replacement water filters with your original purchase. Also consider the optional UV filter for final bacteria and virus elimination. Now compare the various filters in the table below. The most important information in this pamphlet is in the table below. Do not make the mistake of purchasing a product that will not remove the PFAS and all other toxins and chemicals. You need a filter that will serve you for a long time between filter changes.

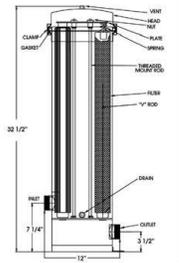
A word of caution. As a homeowner you may approach your local municipal water supply company and ask them for the known pollutants in your water. You will get a nursery rhyme response that "they meet federal standards". The federal standards have not been updated in over 30 years. These require the city to make a monthly test for a few chemicals and fill out an EPA report. We examined municipal water supplies using an independently funded federal government data base and found extreme levels of pollution in literally all the locations we studied, yet they all "meet federal standards".

The most publicly aware story came from Flint Michigan a few years ago. The pollution in the Flint River was so severe that it occasionally caught fire and burned (yes, the river burned) because of the level of pollutants floating on the water. The city claimed that its water met federal standards. We stopped doing individual tests and began showing national maps of pollutants some of which you see in this

pamphlet. The end result is that every house needs an industrial grade Whole House water filter. See which filters pass the 14 point test in the table below. You will see that the JMCC Water Filters MR5 Whole House Water Filter wins out in every category including lowest cost per gallon.

Product →→	Brita faucet or shower filter	Kitchen Gravity or above or below sink filter	Plastic counter top water filter Big Box store or amazon	Water Softener	Specialty Water Conditioner (magnetic or other claimed processes)	Ceramic Whole House filters (what I used to sell – see the difference)	JMCC Water Filters MR5 Whole House Filter
Whole House Filter system	No	No	No	No Not a filter	No Not a filter	Yes	Yes
Pore Size (microns) Outer shell	Charcoal not a filter	0.5	Charcoal not a filter	N/A not a filter	N/A not a filter	0.5	0.1
Filter surface area (in <sup>2</sup> )	Charcoal not a filter	42	Charcoal not a filter	N/A not a filter	N/A not a filter	710	864
Chemical removal Medium	Charcoal removes only chlorine	Varies by vendor require add on filters	Charcoal removes only chlorine	N/A not a filter	N/A not a filter removes salts and minerals only	Vary by vendor (we used to sell but break)	Proprietary blend removes all to safe levels
Medium Surface contact area due to porous medium (meters <sup>2</sup> )	0.1	N/A	N/A	N/A not a filter	N/A not a filter	50,000	100,000
Contact time water in filter (seconds)	.5	45	10	N/A not a filter	N/A not a filter	25	35
Filtration Flow rate (gallons per minute)	1.0	.05	0.1	N/A not a filter	N/A not a filter	12	12
Continual flow or container limited	Continual	Container limited	Container limited	Continual	Continual	Continual	Continual
Cost per gallon filtered (cents)	3	12	100	N/A not a filter	N/A not a filter	2	2
Filter lifetime (gallons/days)	300/10	1000/160		N/A not a filter	N/A not a filter	40,000/145	50,000/160
Break easily (during shipment) Manufacturing	Yes	Yes	yes	No	No	Break easily Cannot mass produce	Never break mass produced
Addresses PFAS "Forever Chemicals"	No	No	No	No	No	Yes	Yes
Stainless Steel Housing	No	No	No	No	No	No	Yes
Manufacturer direct sales	No	No	No	No	No	No	Yes

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