

adedge **Plus-As Series** CARBON BLOCK TECHNOLOGY

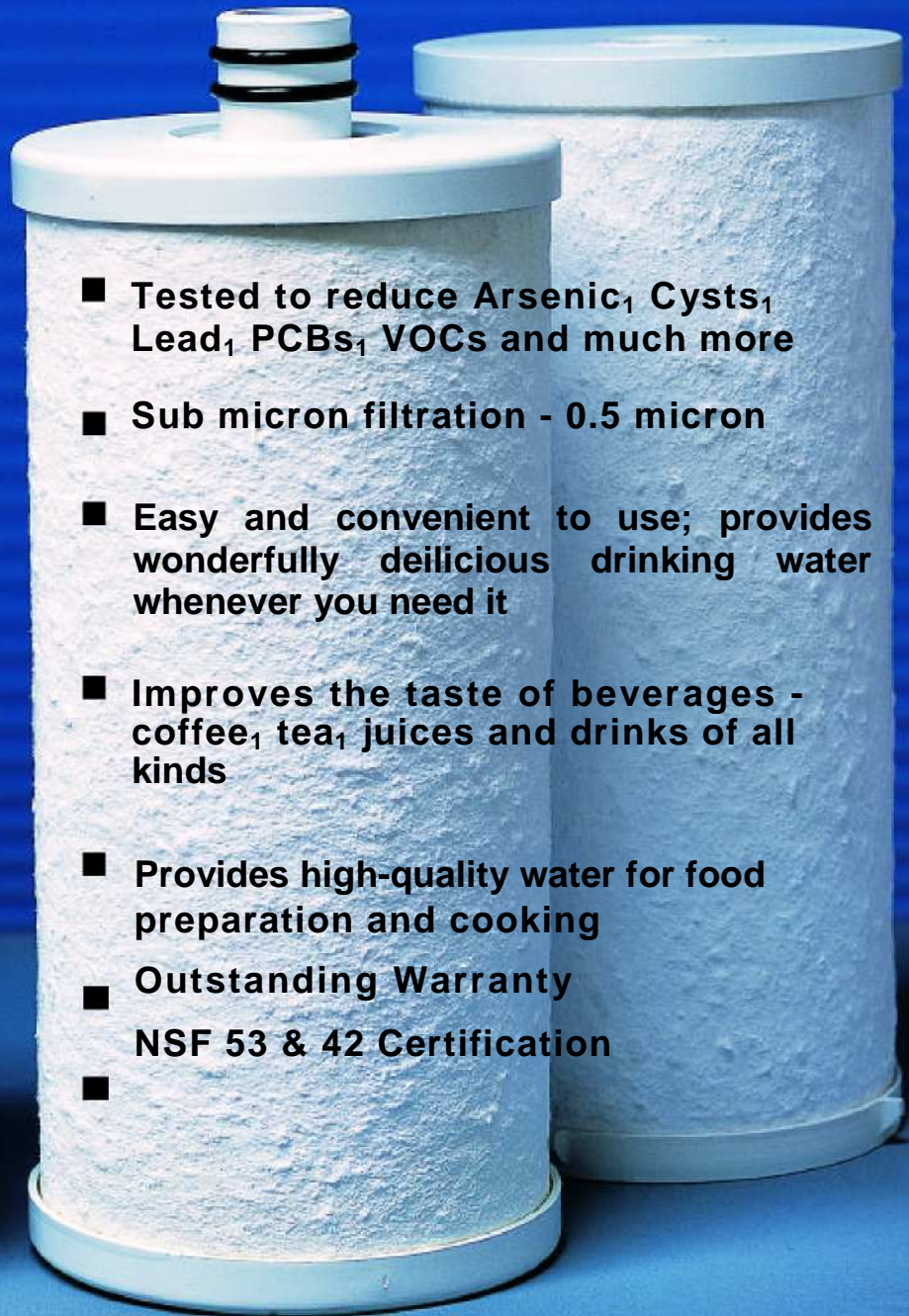
Plus-As drinking water systems, the most technologically advanced water treatment devices available, provide the best in performance. Innovative, highly effective Plus-As Systems feature solid carbon block filtration technology that combines mechanical filtration, electrokinetic adsorption, and chemical/physical adsorption to provide the most effective contaminant reduction possible. Manufactured using AD33 arsenic removal technology direct from Adedge Technologies, no other carbon block product on the market has attained NSF 53 certification for arsenic. The effectiveness of Plus-As drinking water systems in treating a broad spectrum of contaminants of aesthetic as well as health concern makes it the technology of choice by consumers throughout the world.



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- **Tested to reduce Arsenic₁, Cysts₁, Lead₁, PCBs₁, VOCs and much more**
- **Sub micron filtration - 0.5 micron**
- **Easy and convenient to use; provides wonderfully delicious drinking water whenever you need it**
- **Improves the taste of beverages - coffee₁, tea₁, juices and drinks of all kinds**
- **Provides high-quality water for food preparation and cooking**
- **Outstanding Warranty**
- **NSF 53 & 42 Certification**
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Model P-SC-PID Countertop Drinking Water System

High-quality Stainless Steel Plus-As Model P-SC-PID combines the best in performance with the high style and durability of stainless steel. These units feature a 16 gauge stainless steel housing and the Plus-As filter that reduces arsenic in addition to the many other contaminants listed (see performance chart).



Plus-As Series Countertop **model P-SCPID** sits on your counter and connects to your existing faucet with a diverter valve that allows you to conveniently switch from filtered to unfiltered water. The system also features an intelligent performance monitor.

The monitor for countertop models is an easy to read performance monitor that not only shows when the filter should be changed, but also how much filter life is left at any given time.

Plus-As countertop models offer the convenience of being able to connect to your existing faucet using a high-tech chrome and ceramic diverter valve, providing wonderfully refreshing water for all of your cooking and drinking needs.



Undercounter Models P-SB-PID & P-PB-PID



Plus-As Series undercounter models are available in stylish stainless steel (**model P-SB-PID**) or durable plastic (**model P-PB-PID**)

All Plus-As undercounter models come with an attractive designer faucet that is installed on your sink ledge, providing fresh, clear water for all of your cooking and drinking needs.

The chrome faucet has a clean, modular design, and its ceramic disc valve allows you to adjust the flow control right at your kitchen sink. They may also be connected to an icemaker or other device by using a tee. Undercounter models also feature an electronic performance indicator device with an attractive LED indicator light on the faucet itself, which flashes yellow when the filter should be changed.



Plus-As Series Carbon Block Technology

Plus-As Series drinking water systems available from Adedge Technologies are designed to provide the utmost in performance, safety, and convenience. The replaceable triple-action filter has been formulated using materials that will provide the highest quality drinking water without removing the healthful, natural minerals. Multi-Pure's carbon block filters using Adedge AD33 combine mechanical filtration, electrokinetic adsorption, and physical adsorption to provide the most effective contaminant reduction possible.

Water enters the filter through a graded density pre-filter, which acquires a positive molecular charge in a moving stream of water. Since most colloidal 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 (0.5 micron) range. Then the water passes through the highly compacted solid carbon block filter that also is designed to mechanically filter particles down to sub micron size, including microscopic organisms.



Model	P-SC-PID	P-SB-PID	P-PB-PID
Housing	Stainless Steel	Stainless Steel	Polypropylene
Inlet	3/8"	3/8"	3/8"
Outlet	1/4"	1/4"	1/4"
Replacement Filter	PTA	PTA	PNA
Approx. Flow Rate	1.0 gpm @ 60 psi	1.0 gpm @ 60 psi	1.0 gpm @ 60 psi
Water Pressure	125 psi max/ 30psi min	125 psi max/ 30psi min	125 psi max/ 30psi min
Weight (Basic Unit)	4.75 lbs	4.75 lbs	4.0 lbs
Height	13.75 in	13.75 in	13.0 in
Body Diameter	6.0 in	6.0 in	6.75 in
Particulate Retention	0.5 micron	0.5 micron	0.5 micron

The highly compacted solid carbon block filter media is a blend of selected activated carbons and other materials that reduce inorganics as well as organic compounds. Many carbons are selected with a high surface area and high retentivity characteristics. The formulation of the Plus-As filter includes a specially developed arsenic adsorbent media from Adedge Technologies that is blended with the carbons. The materials are formed into a carbon block, which is densely compacted to enhance the kinetics of the filter and provide performance that cannot be achieved with other filtration technologies. With the Plus-As carbon block filters, the water contact time is longer and provides for greater adsorption of many different chemicals, pesticides, herbicides, certain heavy metals and arsenic.

The solid carbon block filters are exceptionally uniform and do not channel or allow bypass as conventional granular activated carbon filters (GAC) are known to do. Unlike conventional GAC filters that become incubators of bacteria, the densely compacted Plus-As Series filters eliminate this problem because there is no room for growth in the compressed carbon.

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

Capacity ratings apply to the chemical adsorption capabilities of the carbon and specialized media. Carbons with high surface area allow for long life and high adsorption capacity. Claims of capacity aren't applicable to contaminants reduced by mechanical filtration because of broad variations in the quality and quantity of physical matter in the drinking water. The carbon block filter is engineered so that contaminants removed by mechanical filtration will cause the flow rate to decrease, and the filter will clog. It is recommended that the filter be replaced when the first of the following occurs: (a) annually; (b) the unit's rated capacity is reached; (c) the flow rate diminishes; (d) the filter becomes saturated with bad tastes and odors.

The effectiveness of any drinking water treatment device is measured by the performance of its filter. Plus-As solid carbon block filters effectively treat a broad spectrum of contaminants of aesthetic as well as health concern, making it the technology of choice for consumers throughout the world.

Plus-As drinking water systems tested according to ANSI/NSF Standards 42 and 53 for the following claims:

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

One Filter Does It All!

The list of contaminants that Plus-As drinking water systems reduce does not mean that these substances are present in your tap water. Be sure to check for compliance with state and local laws and regulations. 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 water that may contain filterable cysts.

Plus-As Series drinking water systems are manufactured by Multi-Pure Corporation using arsenic reduction technology from Aledge Technologies, Inc.

About Arsenic in Drinking Water

Arsenic (abbreviated As) is a naturally occurring contaminant found in many ground waters. Arsenic in water has no color, taste or odor. It must be measured by a lab test. Public water utilities must have their water tested for arsenic. You can get the results from your water utility. If you have your own well, you can have the water tested. The local health department or the state environmental health agency can provide a list of certified labs. The cost is typically \$15 to \$30. Information about arsenic in water can be found on the Internet at the US Environmental Protection Agency website: www.epa.gov/safewater/arsenic.html.

There are two forms of arsenic: pentavalent arsenic (also called As(V), As(+5), and arsenate) and trivalent arsenic (also called As(III), As(+3), and arsenite). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Special sampling procedures are needed for a lab to determine what type and how much of each type of arsenic is in the water. Check with the labs in your area to see if they can provide this type of service.

The Plus-As Models are designed to remove arsenic. Under lab conditions, as defined in ANSI/NSF Standard 53, the system reduced 0.05 mg/L (ppm) pentavalent arsenic to 0.010 mg/L (ppm) (the USEPA standard for drinking water) or less. The performance of the system may be different at your installation. Have the treated water tested for arsenic to check if the system is working properly.

The Carbon Block filter component of the Plus-As system must be replaced as indicated in the Owner's Manual to ensure the system will continue to remove arsenic and other contaminants. The component identification and locations where you can purchase the component are listed in the installation/operation manual.

