



# ULTRA-D™

## SUBMICRON DEPTH FILTRATION



Aqua Smart Los Cabos announces its newest line of filters, The ULTRA-D Submicron Depth Filtration Series, which are manufactured using a proprietary, patented, electro-adsorptive media technology, capable of removing submicron pathogens and inorganic contaminants through electro-adhesion and ion exchange.

This technology makes it possible for a nonwoven media to produce filtration efficiency comparable to ultra membrane filtration but at very low pressure drop, with high flow rates and high loading capacity working equally well in fresh, brackish or salt waters.

The **ULTRA-D** media consists of coated micro-glass fibers produced using a wet laid nonwoven manufacturing technology. The base media is laminated between layers of spun-bond to provide both strength and pleat support. The media in the **ULTRA-D** filter is NSF 61-approved (Drinking Water System Components - Health Effects), and USP Class VI testing and endotoxin testing. This media has been specifically engineered to have an average pore size of 2 microns and a mean flow pore of 0.7 microns. This allows the naturally occurring charge field to affect the total volume of the individual pores, as well as virtually the entire void volume of the filter media itself.

The media in these cartridges efficiently retain inorganic and organic particulates, cell debris, endotoxins, virus, proteins, many colloids, bacteria and inorganic submicron particulates. Contaminants are removed by being exposed to a torturous path through the media, depth and the powerful electropositive charge.

### **Applications for and industries benefitting from the ULTRA-D filtration process:**

Residential use where cost effective systems must be used and presence of pathogenic-laden water is of ongoing concern.

- Food and beverage industry for high purity water
- Pharmaceutical industry for high purity water
- Commercial pre-RO and ultra filtration treatment to sustain the life of the membranes
- Greywater recycling for removal of pathogens
- De-salination for pre-filtration
- Other high purity applications
- Water re-cycling treatment for circuit board industry

**ULTRA-D Submicron Filter Series is NSF/ANSI 42- and 61- certified and UPC-certified by the IAPMO organization.**



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### THE FOLLOWING CONTAMINANTS WERE TESTED AND CERTIFIED BY A THIRD PARTY LABORATORY IN THE UNITED STATES

The ULTRA-D filter reduces or removes the following pathogens:

- >99.99% viruses (polio, rotovirus, norovirus, etc.)\*\*
- >99.99% bacteria (e coli, legionella, pseudomonas, etc.)\*\*
- >99.95% cysts (giardia, cryptosporidium, etc.)\*\*
- \*\*Tested by a certified laboratory in the U.S. (testing was done at 6.5pH)

The ULTRA-D filter removes or reduces the following heavy metals:

- >95% Lead\*\*
- >80% Ferrous Iron\*\*
- >95% Arsenic V\*\*
- >95% Cadmium\*\*
- >85% Chromium\*\*
- >75% Selenium\*\*
- >60% Mercury

\*\*Tested by a certified laboratory in the U.S. (testing was done at 6.5pH)

The ULTRA-D filter removes or reduces the following organic and inorganic chemicals:

- Chlorine (carbon version)
- Bromine (carbon version)
- Iodine (carbon version)
- VOCs (volatile organic compounds)
- PCBs and BPA
- Residual pharmaceuticals
- Biofouling precursors: organic acids, proteins, polysaccharides.

**ADDITIONAL FILTRATION EQUIPMENT AND CARTRIDGES ARE AVAILABLE THROUGH AQUASmart FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS. PLEASE CONTACT US DIRECTLY.**



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**AquaSmart**



**Trident System**  
**WATER SOLUTION**

**Triple Stage Whole House Filtration System**








The TRIDENT Whole House Water System is a low cost alternative to water clarification. These units offer excellent protection from heavy metals to include Iron, lead, cadmium, mercury, and chromium. They also offer exceptional protection from many water based virus and bacteria. Each system houses two ULTRA-D Filter Cartridges manufactured using proprietary, patented electroadsorptive media technology. This media is capable of removing submicron pathogens, inorganic contaminants and various heavy metals through Electroadsorption / Ion Exchange Technology. The first stage, using ULTRA-D "High Flow" media as a pre-filter removes 90% of the contaminants. The second stage using ULTRA-D "PAC/Agion" media removes heavy metals and pathogens listed below. The systems third stage filter is a coconut carbon block that provides a final polish to the downstream flow.

Low acquisition cost, ease of maintenance, lower cost of ownership = exceptional value.

Cartridge Replacement	Every 12 months	Test Results*		
Recommended Flow	20.0 gpm	>99.9999% Viruses	>99.9996% Bacteria	>99.9% Cysts
Working Pressure	40-80 psi	>97.6% Lead	>84.4% Iron	>95.9% Arsenic V
Master Dimensions	27.75" x 24.5" x 10" (67.3 x 72.4 x 22.9 cm)	>98.8% Cadmium	>95.8% Chromium	>76.5% Selenium
Master Case Weight	47.0 lbs. (21.5kg)	>72.8% Mercury	>98.4% Silver	
Inlet & Outlet Connection	1" with pressure relief valve/bleed air valve.			

\*Tested by a certified laboratory in the U.S.

**Dealer Contact Information**

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