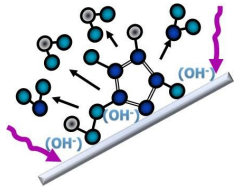


Shield 500 Product Information

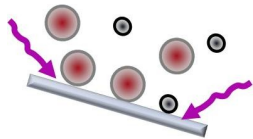
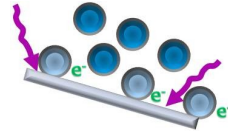
100% water recovery	Low pressure drop
Power: ~ 640 watts	Simple to replace consumables
EEO ~ 7.1 kWhr/m ³ /LRV	No specialized training needed
Dimensions: 28" X 8" X 19"	5°C to 55°C operating temp.
Weight: ~ 89 lbs. (dry)	15 to 60 psi water pressure
No chemical additives	Digital control
200 to 500 gallons per day	Easy integration

Five Light-activated Processes



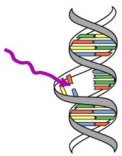
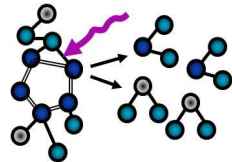
Photocatalytic Oxidation. Eliminates organic compounds from the water, providing a significant reduction in all of the emerging contaminants. A complete Advanced Oxidation system without chemicals.

Photocatalytic Reduction. Free electrons instantly react with many compounds including heavy metals, reducing them to a less toxic, more elemental state.



Photoadsorption. The photocatalyst strongly and irreversibly adsorbs heavy metals including mercury, lead, chromium, and arsenic, and other toxic compounds.

Photolysis. High energy photons directly disassociate many chemical compounds, complementing and enhancing the effectiveness of the other processes.



Photodisinfection. With multiple wavelengths and very high intensity of LED light, the process disinfects pathogens more effectively than standard UV germicidal irradiation.



15250 NW Greenbrier Parkway
Beaverton, OR 97006-5764

www.puralytics.com info@puralytics.com 503 913-5194

A New Photochemical
Purification Process


Puralytics

Shield 500

Shield 500

Using only the power of light and powerful nanotechnology, Puralytics purifies water, with 100% water recovery, and without any chemical additives, filters, or membranes.



- **Broad Contaminant Coverage.**

For industrial and commercial process and waste water, and residential point of entry.

Disintegrates organic compounds

Pesticides	Petrochemicals
Pharmaceuticals	Herbicides

Removes heavy metals

Arsenic	Mercury
Lead	Chromium

Provides complete sterilization of pathogens

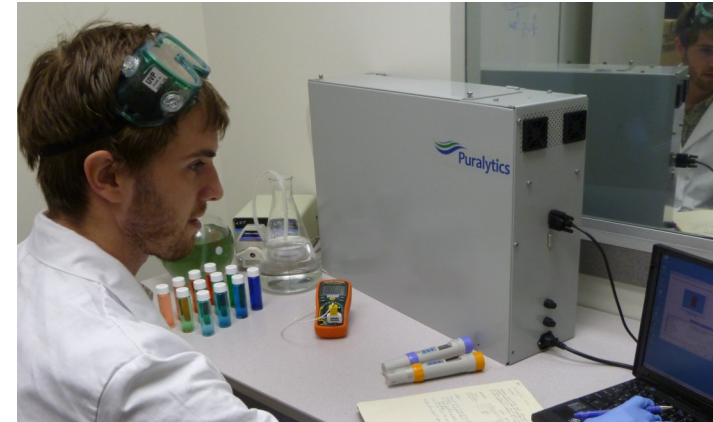
Bacteria	Viruses
Cysts	Protozoa

- **Reduces Operating Cost.** 100% water recovery and low electrical consumption. Eliminates consumables such as chemicals, filters, and membranes. Reduces service and operator cost.
- **Protects the Environment.** Destroys contaminants, avoiding later recontamination. Provides 100% water recovery and eliminates toxic waste streams. No chemicals are added to the environment.



IMAGINE {  } H₂O

New Purification Technology For Critical Applications



Laboratory, Pharmaceutical, and Ultrapure Water

Removes trace organics, pathogens, and heavy metals from make-up water and waste stream.

Light Industrial and Commercial Process Water Improves process yields and product quality. Eliminates organic compounds from the water, provides heavy metal removal and pathogen sterilization. A complete Advanced Oxidation system without chemicals, cleaning cycles, or maintenance.

Residential Point of Entry Provides the final barrier for contaminants in municipal, desalinated, or well water. Many of these emerging contaminants have known health risks, but are not yet regulated.

Waste Water Polishing Removes trace contaminants to prepare water for discharge or reuse.



Creating a
cleaner future

