

Shield 1000

LED Powered Water Purification

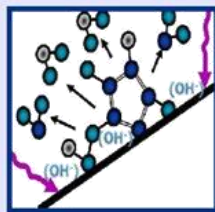
A New Photochemical Purification Process



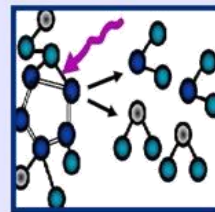
Broad Contaminant Coverage

- ✓ *Bacteria*
- ✓ *Viruses*
- ✓ *Protozoa*
- ✓ *Petrochemicals*
- ✓ *Pharmaceuticals*
- ✓ *Pesticides*
- ✓ *Herbicides*
- ✓ *Heavy Metals*

Five Light-Activated Processes



Photocatalytic Oxidation



Photolysis

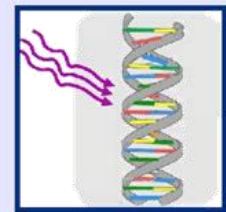
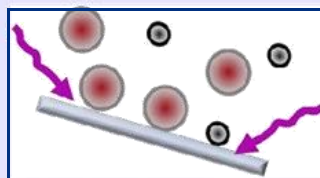
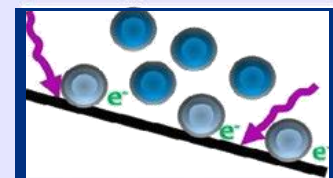


Photo Disinfection



Photoadsorption



Photocatalytic Reduction

Award Winning Technology



Puralytics

The **Shield** uses LEDs to activate nanotechnology coated mesh to purify water and activate the five light-activated processes. The Shield is a compact, simple to install water purifier that can be used in drinking, industrial and lab water applications. The Shield has the broadest contaminant coverage and provides the simplest use of any product on the market, with the lowest operating costs.



Shield Product Information

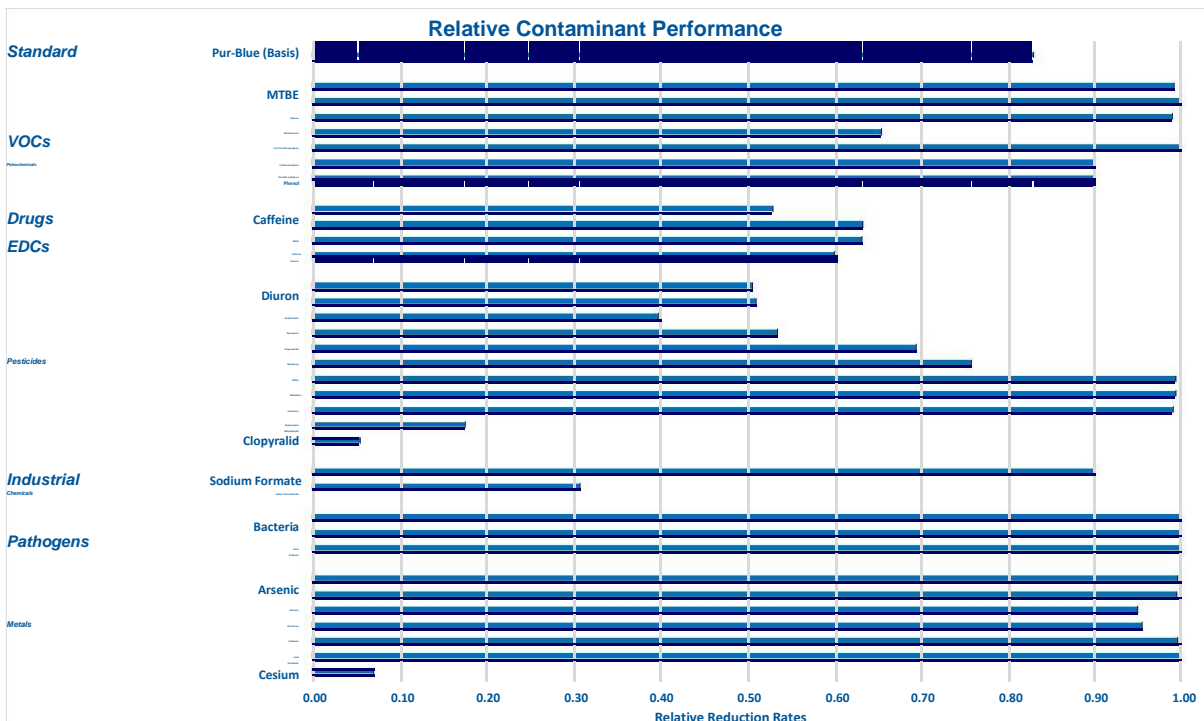
- Water Recovery: 100%
- Water Production: 500–1000 gallons per day
- Pressure Drop: 10–20 psi (@ 500-1000 gpd)
- Power Consumption: 570 Watts
- Power Input: 100-240V 50Hz-60Hz
- Operating Temp: 5°C–55°C
- Dim: 32”Hx12”Wx18”D | 81.3x30.5x45.7cm
- Weight: 60 lbs. | 27.2kg
- Simple to replace consumables
- Easy integration
- No chemical additives

New Purification Technology for Critical Applications

Drinking Water: Provides the final barrier for contaminants in municipal, desalinated, or well water sources. Many of the emerging contaminants treated by the five light-activated processes, such as pharmaceuticals and pesticides, are recognized by the EPA to have known health risks and are not yet regulated.

Industrial Water: From recycle water to discharge. 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.

Lab Water: Can achieve ultrapure TOC levels without the use of hazardous materials like mercury and with greater efficiency than competing technologies.



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