POU CARTRIDGE FOR ARSENIC REDUCTION

High Performance Point-of-Use Solutions

AdvantEdge has two POU cartridges for arsenic reduction. These products are the most cost-effective technology to date to meet the challenges of the 10 micrograms per liter (µg/l) drinking water standard for arsenic established by EPA. Products incorporate a proprietary iron oxide media for long life and high performance. Cartridges effectively reduce both Arsenic (V) and Arsenic (III) without pre-oxidation. Ideal applications include under-counter and countertop POU systems. The standard Model AD2710S has been optimized for extended life and fits most standard and slimline 10 inch housings. The AD2710S is designed to treat 50 µg/l of total arsenic to less than 10 µg/l (based on pH 8.5, Arsenic (V) challenges using NSF 53 protocols). The AD4510S version is a 4.5 x 10 inch BB size cartridge designed for tackling higher arsenic concentrations above 50 µg/l. Both are filled with 100% Adedge Technologies AD33 arsenic reduction media for maximum performance.

CARTRIDGE PERFORMANCE

Applications
Ideal for Under-counter or countertop POU systems

Model AD2710S: 50 µg/l of arsenic, 0.5 gpm flow, pH 6.5-8.5
Model AD4510S: 100 µg/l of arsenic, 1,000 gallon capacity, 0.5 gpm flow, pH 6.5-8.5
Model AD4150S: 50 µg/l of arsenic, 3,000 gallon capacity, 0.5 gpm flow, pH 6.5-8.5

Arsenic Reduction
Reduction of up to 99% of total arsenic. Effective for both As (III) & As (V).

Capacity
1,000 – 3,000 gallons; 4-6 times longer life than other commercial adsorption options (conservative rating at pH 8.5)

Certifications
NSF 61 product listing on Media (see Adedge for details).

Components
FDA listed components

Extractables
Imparts no harmful chemicals into the treated product water

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>General Specifications</th>
<th>Model AD2710S</th>
<th>Model AD4510S</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2.75 x 9.75 inch</td>
<td>4.5 x 9.75 inch</td>
</tr>
<tr>
<td>Media type(s)</td>
<td>Bayoxide® E33</td>
<td>Bayoxide® E33</td>
</tr>
<tr>
<td>Contaminant Reduction</td>
<td>Arsenic (V) and (III)</td>
<td>Arsenic (V) and (III)</td>
</tr>
<tr>
<td>Cartridge Life</td>
<td>1,000 gallons</td>
<td>1,000 gallons up to 100 µg/l arsenic</td>
</tr>
<tr>
<td>Cartridge shell</td>
<td>FDA grade Polyethylene</td>
<td>FDA grade Polyethylene</td>
</tr>
<tr>
<td>Micron rating</td>
<td>25 Micron Nominal</td>
<td>25 Micron Nominal</td>
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<tr>
<td>Pressure drop</td>
<td>&lt; 8 psi at 0.5 gpm</td>
<td>&lt; 8 psi @ 0.5 gpm</td>
</tr>
<tr>
<td>Housings</td>
<td>AdVantEdge Distributor for details</td>
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</tbody>
</table>

Recommended Water Quality for Best Performance

- pH: 6.5 – 8.5
- Arsenic: 50 or 100 µg/l (see above)
- Iron: < 0.5 mg/l
- Silica: < 30 mg/l
- Sulfate: < 100 mg/l
- Phosphate: < 0.5 mg/l
- Sulfides: < 0.1 mg/l
- Fluoride: < 1 mg/l

Note:
Bayoxide® E33 is a registered trademark of LANXESS Deutschland GmbH.