Arsenic Removal Technologies

Graver Technologies

Technology	Capital	Operations & Maintenance	Waste	Ideal pH	Remove As V+	Remove As III+	Interferent Concerns	Chemical Needed	Considerations
Graver MetSorb HMRG Media	Med	Low *(longer life)*	No	<2–8.5	✓	★★★ *(best in class)*	Low	No *(As III is taken up)*	No pretreatment necessary
Granular Ferric Oxide (GFO) / Iron Media	Med	Med	No	6.5–8.0	✓	★★	Med	Yes *(for bacteria & convert As III to V)*	Oxidation recommended; iron staining risk
Iron-Impregnated Resins	Med	Med	No	6.5–8.0	✓	★★	Med	No *(except to lower pH)*	Lower capacity; "fishy smell" due to high pH
Activated Alumina	Low	High *(frequent replacement)*	No	6.5–7.5	✓	×	High	No *(except to lower pH)*	Aluminum leaching in water, no As III uptake
Reverse Osmosis	High	High *(energy, waste, and pretreatment)*	Yes	–	✓	×	–	Yes *(Oxidant As III → As V, then activated carbon)*	Removes everything; low pH may leach old pipe buildup
Anion Resin	Med	Med *(continuous salt)*	Yes	–	✓	×	High	Yes *(salt)*	TDS impacts regeneration/may release As
Iron and Manganese Removal Medias	Med	Med *(may still need oxidizer)*	Yes	6.5–8.5	✓	✓	–	Often	Requires sufficient iron; ~40:1 iron-to-arsenic ratio

Parameter performance indicator

High Yes Med Low No

FOR MORE INFORMATION

GTX-700 4-26

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