

WATCH WATER UAE | TECHNICAL OVERVIEW

AQUARedox

AQUARedox is a granular high-redox medium that uses complementary carbon-based cathodic and anodic surfaces to drive oxidation-reduction reactions. The technology is applied as a professional fixed bed for broad multi-contaminant treatment, with final performance determined by contact time and the complete water matrix.

TREATMENT FOCUS

- 01 **Bacteria and microbiological load**
- 02 **Heavy metals**
- 03 **Organic pollutants**
- 04 **Chlorine and chloramine**
- 05 **Taste and odour**
- 06 **Multi-contaminant groundwater**

TECHNICAL WORKFLOW

- 01 **Distribute:** Water enters a correctly sized fixed bed with controlled hydraulic distribution.
- 02 **Redox:** Cathodic and anodic media surfaces establish oxidation-reduction pathways within the bed.
- 03 **Transform:** Target compounds are oxidised, reduced, adsorbed or converted to more manageable forms.
- 04 **Polish:** Downstream filtration or polishing is added where reaction products or the final specification require it.

PROFESSIONAL SELECTION REQUIRED

Final capacity, dose and operating limits are confirmed from the actual water analysis and project conditions.

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