

WATCH WATER UAE | TECHNICAL OVERVIEW

SilicaTrapp

SilicaTrapp is engineered within the Adsorption technology platform. Watch Water adsorbers use specialised mineral, carbon, redox and selective media surfaces to capture or transform dissolved contaminants. Capacity is not a fixed universal number: the complete water matrix, competing species, pH and contact time determine real project performance.

TREATMENT FOCUS

- 01 Heavy metals and metalloids
- 02 Organic contaminants and VOCs
- 03 PFAS and emerging contaminants
- 04 Nutrients and selective ions
- 05 Chlorine and chloramine
- 06 Specialist industrial pollutants

TECHNICAL WORKFLOW

- 01 Characterise: Identify target species, concentration, pH, competing ions, organics and suspended matter.
- 02 Contact: Water is distributed through the media bed at a velocity that provides the required empty-bed contact time.
- 03 Capture: Contaminants bind to, react with or are transformed at the active media surface.
- 04 Control: Performance is monitored until the selected breakthrough criterion triggers media replacement or regeneration where applicable.