

WATCH WATER UAE | TECHNICAL OVERVIEW

HydroSorb

HydroSorb is a high-performance adsorber based on advanced porous adsorption concepts, including MOF- and COF-associated structures. It is intended for broad contaminant mixtures where conventional single-purpose media may not provide sufficient spectrum or service life.

TREATMENT FOCUS

- 01 PFAS, PFOA and PFOS
- 02 VOCs and pesticides
- 03 Heavy metals
- 04 Ammonia and nutrients
- 05 Microplastics and difficult organics
- 06 Drinking-water and wastewater polishing

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.