




In-Situ Reaction Vessel & Ultra Filter in 1 Unit Operation

The In-Situ Reactor (ISR) of the  process can perform the following reactions or functions as required:

- Ultra-Coagulation (Concentrated Sweep Floc)
- Precipitation (NaOH, lime, etc.)
- Adsorption (HMO, PAC)
- Oxidation (O₂, Hypochlorite, etc.)
- Reduction (Calmet)
- Hydraulic Decoupling
- Turbulent Mixing
- Shorter Reaction Time

is the Plant! (No Pre-Treatment)

The  process increases the solids concentrations within the ISR 100 times, dramatically enhancing the effectiveness of surface-mediated reactions. Since these are surface reactions, their rates increase significantly with higher solids concentrations. As a result, the more contaminated the feed water, the greater performance benefits of the ISR within the  process:

- Reaction rates accelerate from hours to minutes
- Achieves higher contaminant removal efficiencies
- Coagulant dosages are significantly reduced

Better Water at lower Cost!

