

### Benefits of using a SimFloc mixer:

- *Inline polymer mixer for optimal mixing results*
- *Allows for higher molecular-weight polymers*
- *Optimizes system to reduce waste disposal and hauling costs*
- *Easy to clean designs*
- *Optimized to work with centrifuges*
- *Reduces line pressure drop*

## SIMFLOC SLUDGE CONDITIONER

Sharpe Mixers' SimFloc engineered inline system provides a simple and cost effective approach to improve sludge handling operations by reducing polymer usage and improving water recovery.

The SimFloc is a rugged piece of equipment designed for 24 hours/day continuous service. This mixing system can be added to existing systems with minimal modifications to start reducing operating costs.

### Standard Features:

- High quality stainless steel wetted parts for durability and resistance to corrosion
- Flushed mechanical seal for leak-free operation
- Horizontal or vertical mounting and mixing chamber can be rotated for piping requirements
- Variable speed for optimization
- Wash-down duty rated motor and VFD
- Large 6"-150# flanged access window allows inspection of the mixing chamber and impeller
- Non-ragging impeller
- Two inlet ports for the introduction of polymer
- Bench top to 125HP models available



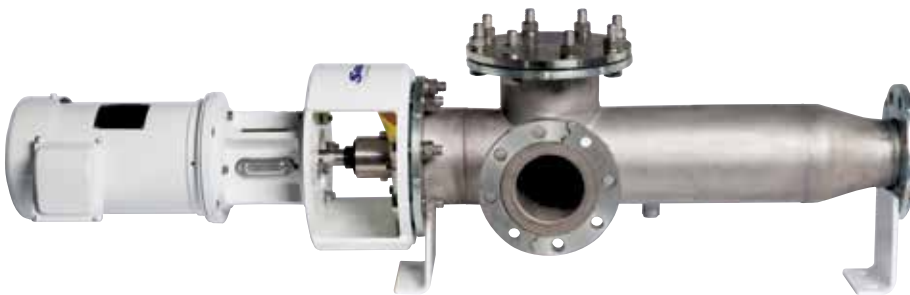
## Improved Performance

Waste water treatment plants have process requirements that are varied and often changing. The SimFloc system allows operators to optimize their process by controlling polymer dosing rates for varying flow rates and sludge conditions.

The SimFloc design optimizes the effectiveness of polymers on sludge separation. Removing more water from the sludge results in less sludge to dispose; resulting in less hauling and disposal costs, often while using less polymer.

### Proven Results:

- Decreased sludge handling
- Higher quality water recovery
- Improved performance from de-watering devices
  - Filter process
  - Belt press
  - Centrifuge
  - Screw press
- Reduced polymer usage
- Excellent mixing without shearing the polymer



## TYPICAL MIXING

### Applications

- Dispersion
- De-agglomeration
- Dissolution
- Suspension
- Reaction acceleration
- Particle size reduction
- Homogenization
- Emulsification

### Industries

- Municipal
- Waste Treatment



Inside view of non-ragging impeller