

Metso

A leap forward in performance

Reactorwell™



Redefine the industry's sustainability targets with Reactorwell™. A first-class feed system that maximizes thickener performance while minimizing flocculant consumption and bringing significant cost efficiencies to your operations.

Innovation leap

A new generation feedwell with high solids retention and mixing efficiency that eliminates feed short-circuiting. The Reactorwell™ offers low shear for ideal floccule growth, even discharge symmetry as well as excellent feed preparation.

- Features a unique channel and mixing jet design
- Optimized with hundreds of industry leading CFD simulations
- Covered by multiple global patents

Unparalleled performance

The Reactorwell™ enables maximum thickener usage due to a higher exit symmetry, resulting in better thickener operability & improved response to process changes. It also enables improved overflow clarity with higher underflow density.

- Performs exceptionally well in process scenarios where current Feedwells struggle
- >90% of the volume is utilised for floccule growth
- Delivers well mixed & evenly distributed exit flows even with large feedwells (>6m) & across a large solids fraction range

Cost excellence

Due to its intelligent design and modularity, the Reactorwell™ is easy to maintain. It consistently achieves high unit area throughput. The improved Autodil™ performance minimizes the need for pumped dilution. This all results in low total cost of ownership.

- Flocculant usage is one of the highest running costs for a thickener. The Reactorwell™ features are proven to lower thickener running costs
- Easy to maintain since the feed trough can be removed and replaced; maintenance can be more difficult with existing feedwell designs
- Can be upgraded to a new channel configuration if process conditions significantly change

Read more at metso.com/reactorwell

How does it work?

- Feed first enters the feed channel & is distributed evenly through the mixing nozzles
- Dilution water flash mixes with the feed, achieving optimum percent feedwell solids concentration
- Flocculant is introduced outside of the feed channel, where it mixes to form aggregates in a low shear environment

As part of the Planet Positive portfolio, the Reactorwell™ reduces flocculant usage and improves water recovery.

