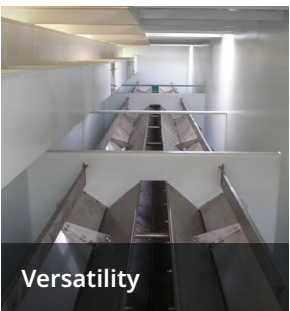
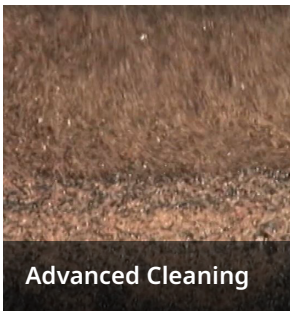


SIMUL-WASH™

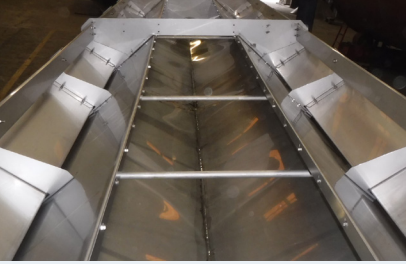
SIMULTANEOUS AIR & WATER
BACKWASH SYSTEM

 **TONKAWATER™**
a Kurita brand



Kurita America's Simul-Wash backwash system provides optimal cleaning of media filters while minimizing water waste. Central to the process is our innovative trough design, which prevents media loss during combined air/water backwash without restricting flow, allowing for sustained cleaning durations to realize the greatest value. Simul-Wash has been implemented widely for over 40 years, with hundreds of installations in existence. This proven technology can be integrated into any Kurita America media filtration application for your benefit to save water and extend filter media life.

KURITA AMERICA ADVANTAGE



SIMUL-WASH PROVIDES:

- Combined air/water backwash
- Sustained durations
- No media loss
- Optimal filter cleaning
- Reduced backwash waste by over 50%

APPLICATIONS:

- Pressure filters
- Gravity filters
- Concrete field-constructed filters
- Retrofits of existing media filters
- Any media type

Advanced Cleaning

Combined air/water backwash is proven to provide the best media cleaning compared to conventional methods. As verified through independent study, backwashing with low water flow rates simultaneously with air produces a collapse-pulse action within the filter media that aggressively scours the media particles while releasing filtered solids. This occurs throughout the entire media bed, eliminating dead zones and preventing solids build-up to ensure the best cleaning and longest media life.

Reduced Waste

The aggressive collapse-pulse action occurs while using water rates significantly lower than necessary for conventional backwash methods, which require media fluidization. Backwashing with water alone at these low rates would be ineffective; however, the simultaneous addition of air forms pockets between the media particles, which immediately collapse under the weight of the filter media, causing a unique scouring action. This provides thorough media cleaning while using only a fraction of the water necessary for a conventional backwash. The ability to sustain this process, without media loss, reduces waste by more than 50% as compared to conventional methods at similar durations.

Versatility

Simul-Wash can be integrated into any Kurita America media filter application, whether a horizontal pressure filter, steel gravity filter, or field-constructed concrete system, regardless of media type. The low-profile trough design is favorable for retrofits of existing media filters, and we can work with you to engineer a custom configuration for your specific application.

Proven Technology

The Simul-Wash process has been implemented widely across North America for over 40 years, with hundreds of installations in operation. Our customers are saving millions of gallons of water, while postponing costly media replacement maintenance events.