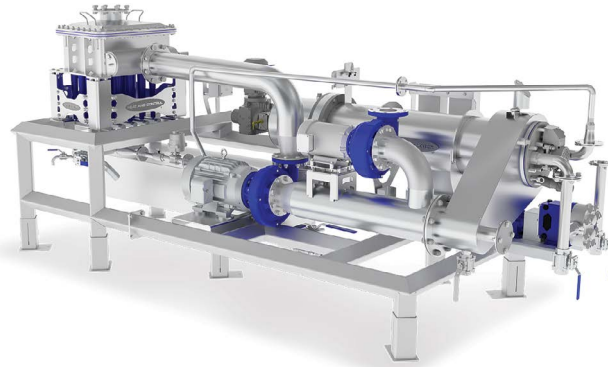




## Cascade Water Recirculation



Slice Wash Support Module | SWSM



Process Recirculation Support Module | PRSM

### Applications

- \_ Raw produce/root vegetable handling at the beginning of the process line
- \_ Potatoes, carrots, beets, etc.
- \_ Sliced potatoes
- \_ Wherever fresh water consumption reduction targets are a priority
- \_ Fully customisable to meet specific processing requirements
- \_ Adaptable to a wide range of vegetable processes and waste management applications

### Radically advance your fresh water consumption reduction strategy.

Cascade Water Recirculation will reduce fresh water consumption for raw produce preparation processes and will ramp up the ability to achieve water sustainability targets. With water utilisation at its core, Cascade Water Recirculation will significantly minimise the amount of fresh water delivered during the preparation process.

#### Reduce Fresh Water Consumption

Reduce fresh water consumption by filtering and hydrocycloning debris from recirculating water and strategically apply the cleaned water into the process. This system also improves capture of value-added waste (starch).

#### Reduce Energy Consumption

This high efficiency system is designed to reduce energy consumption compared to alternatives.

#### Improve Sanitation

Sanitary design of all platforms coupled with minimal active water/low water volume

compliments a fully automated clean-in-place (CIP) sanitation procedure.

#### Improve Process Performance

Attention to performance detail includes reduced fryer product contamination, reduced component wear, and high water flow rates to ensure systems are self-cleaning, thus resulting in a cleaner finished product.

Smart automation results in low operator supervision, and low maintenance procedures resulting in higher mean-time-before-failure.



**Sustainability is  
at the forefront  
of design**

**Achieve  
up to 75%  
reduction in  
fresh water  
consumption**

## Cascade Water Recirculation in Action

This unprecedented process water management design strategically feeds cleaned, recirculated water to specific unit operations rather than feeding fresh water separately to unit operations. This flow delivers a clean slipstream of water fed into the overall system in a “cascading” manner, whereby water cascades down to the next unit operation from earlier in the process flow/ timeline. This results in a significant reduction of fresh water consumption in the overall system.

## Cascade Water Recirculation Process Example: Potato Chip Slice Preparation



### 1 / Slice Wash Support Module | SWSM

Slice Wash Water Recirculation—sliced potato washing, potato starch, and fine silt removal that provides clean water for “cascading” to previous unit operations.

**KleenFlow® | KFLO**  
High flow rate debris concentration and filtration, patent pending.



**Hydrocyclone Bundle**  
Solids concentration, patent pending.



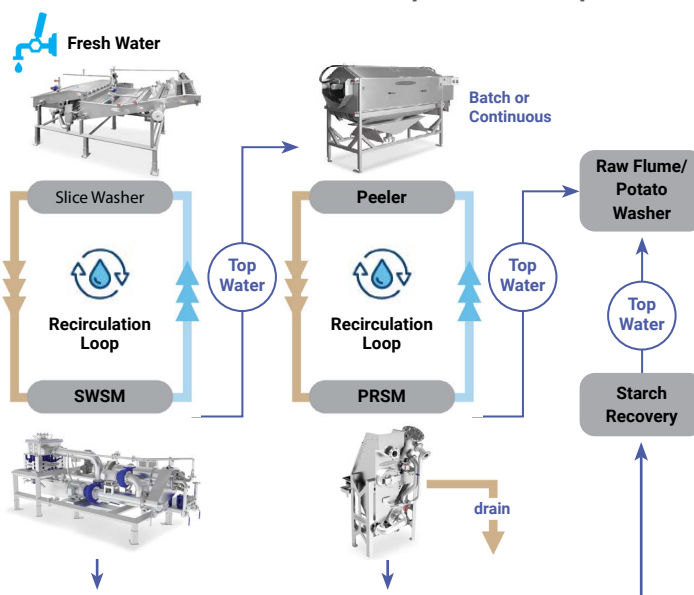
### 2 / Process Recirculation Support Module | PRSM

General Process Water Recirculation –aggressive cleaning of process water via hydrosieve and hydrocyclones to minimise water consumption in a compact configuration.

**Process Recirculation Support Module | PRSM**  
Easily adapted to either batch or continuous peeling and a wide variety of other processing applications.



## Cascade Water Recirculation Process Example: Potato Chip Slice Preparation



### Pressing Forward to Sustainability

Heat and Control's target is designing, manufacturing, and sourcing innovative solutions that achieve sustainability goals for ourselves, partners, and customers.

Looking Back.  
Pressing Forward.  
Always Innovating.  
Since 1950.

**Need to reduce fresh water consumption and want to learn more?**  
Reach out to us for more information and mention *Cascade Water Recirculation*.