



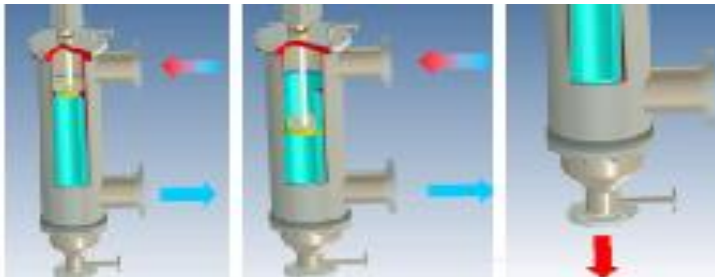
New-generation self-cleaning fine filtration system for the
Sugar Industry

New-generation self-cleaning fine filtration system for the Sugar Industry



The picture on the left shows the well-known Pulse Tube Filtration System – widely used for final filtration in the sugar industry. Because these systems operate on a batch process, the installed capacity is double that of a continuous process. They also only filter down to a minimum of 10 µm, leaving a slight haze in the sugar juice. This is caused by small calcium carbonate particles which pass through the filter system.

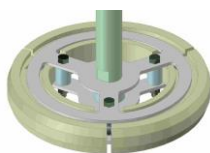
The picture on the right shows a new-generation filtration system known as the **Auxill ADS Filter** (Automatic Disc Scraper). It is a self-cleaning, continuous-flow filtration system with a sintered stainless steel filter element that filters down to $\leq 3 \mu\text{m}$. Being a continuous process, the installed capacity need only be half that of the Pulse Tube Filtration System. The scraper can be operated pneumatically or by an electric servo.



Operation: As can be seen above, the juice enters the inlet at the top of the ADS Filter, flows freely through the scraper openings and filters through the sintered metal (shown in blue). Solids larger than the filter size are collected on the inside of the filter surface. These solids can be removed manually, or by a timer-controlled pneumatically- or electrically-driven scraper. This maintains a clean filter surface and a limited pressure drop across the filter element.

Advantages:

- Lower investment costs
- Lower operating costs
- Continuous process
- Improved performance
- Customised installation possible
- Reduced calcium carbonate requirement



Scraper

