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## CASE STUDY

Food & Beverages Applications

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The Amafilter® Versis® Pressure Leaf Filter System significantly improved the liquid sugar process efficiencies of a sugar plant, reducing maintenance and improving profitability

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**amafilter**  
Filtration Group®





**Industry:**

Food &amp; Beverages

**Application:**

Liquid sugar

**Product:**

Versis® pressure filter leaf system

## THE CHALLENGE

The Amafilter® customer was dissatisfied with the quality of the liquid sugar produced during their B-sugar campaign. They required an efficient filtration solution that would deliver high quality liquid sugar that would meet the high standards expected by the Food & Beverages industry.

## THE SOLUTION

To ensure exceptional quality, the Amafilter® team recommended a two-step filtration process:

**Step 1**

The first step involves two Versis® pressure leaf filter systems, each with a filter area of 40 m², utilizing perlite precoat and body aid to remove any solids present. One filter is actively operating while the other serves as a backup. This setup allows for a continuous filtration capacity of 20 m³/h.

**Step 2**

The second step focuses on reducing colour through active carbon filtration. Similar to the first step, the Amafilter® team advised to install another two Versis® pressure leaf filter systems, each with a filter area of 40 m². These pressure filter systems function in the same capacity, with one operating and the other on standby. The Versis® pressure leaf filter systems are equipped with dry cake discharge for a seamless operation and were the perfect filtration solution to meet the customer's process requirements.

## THE RESULT

The complete filtration solution included four Amafilter® Versis 1200-40/1810 pressure leaf filter systems with dry cake discharge in stainless steel, together with filter bags rated at 5 microns and cotton wound cartridges with a 1 micron rating.

The Versis® pressure leaf filter systems are fully automated and require minimum manual intervention and are designed to filter the finest particles and contaminants, delivering only the very best liquid sugar filtration.

The Amafilter® customer were pleased with the new filtration process efficiencies and the high quality of liquid sugar it delivered, all with minimum maintenance, ensuring a cost effective operation.

## OUR PRODUCT

### The Versis® vertical pressure leaf filter system

- Proven technology
- Fully automated, ensures safety.
- Requires only a small footprint, maximises space.
- Easy access to the filter leaves for removal of the cake.
- Full automation means limited maintenance and lower operational costs.
- A closed filtration system for complete safety when in use.
- Short regeneration time between filtration cycles, reducing operating costs as the filter can filtrate for longer periods without disruptions.
- Easy to clean pressure filter leaves.
- No rotating parts, keeping maintenance to a minimum.
- Reinforced pressure filter leaves provide extended lifetime.
- Specifically designed self sealing cover gaskets for a perfect sealing solution and maximum safety.

