

Application: Sugar filtration
Product: The Cricketfilter[®] Automated Filtration System

WHAT A LEADING SUGAR PRODUCER SAYS ABOUT THE CRICKETFILTER[®]

THE CHALLENGE

The customer required a reliable, low-maintenance filtration system that could maintain consistent product clarity and throughput across a full operational year.

Key challenges included:

- Frequent interruptions due to shorter filtration cycles.
- High operator involvement in manual cleaning and maintenance.
- Operating costs impacted by filter aid selection and handling.
- The need to integrate new technology without major changes to plant layout.

THE SOLUTION

Amafilter[®] introduced the Cricketfilter[®] automated system, designed to deliver long cycle times, reduced manual interventions, and optimized filter aid usage.

Key Features and Benefits:

- **Filtration Efficiency:**
 - Extended cycle times (15–50 hours, depending on feed quality).
 - Reliable performance with only annual filter cloth replacement (plus minor parts such as jubilee clips and O-rings).
- **Automated Cleaning:**
 - Air/gas pulse cleaning system minimizes manual involvement.
 - Improves operator safety and reduces downtime.
- **Operating Cost Optimization:**
 - Flexibility in filter aid usage (Perlite vs. Diatomaceous Earth).
 - High cake volume capacity, especially with Perlite, reduces filter aid consumption without compromising cake dryness or filtrate clarity.
- **Maintenance & Integration:**
 - Predictable annual service requirements with low spare part demand.
 - No major changes required to existing plant layout.



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THE RESULTS

The Cricketfilter[®] delivered significant operational improvements for British Sugar:

- Consistent production with extended cycle times up to 50 hours.
- Minimal downtime and maintenance, with only an annual filter cloth change.
- Reduced operating costs by optimizing filter aid choice, particularly with Perlite.
- Enhanced safety and efficiency through automated air/gas pulse cleaning.
- Reliable product quality, maintaining clarity, colour, and throughput throughout the operational year.

OVERALL IMPACT

The Cricketfilter[®] has proven to be a robust, low-maintenance, and cost-efficient filtration solution, providing our customer with long-term reliability and operational flexibility without the need for additional plant space or major modifications.

