



ACKUMEN™ MCA-i™ RECYCLED PACKAGING

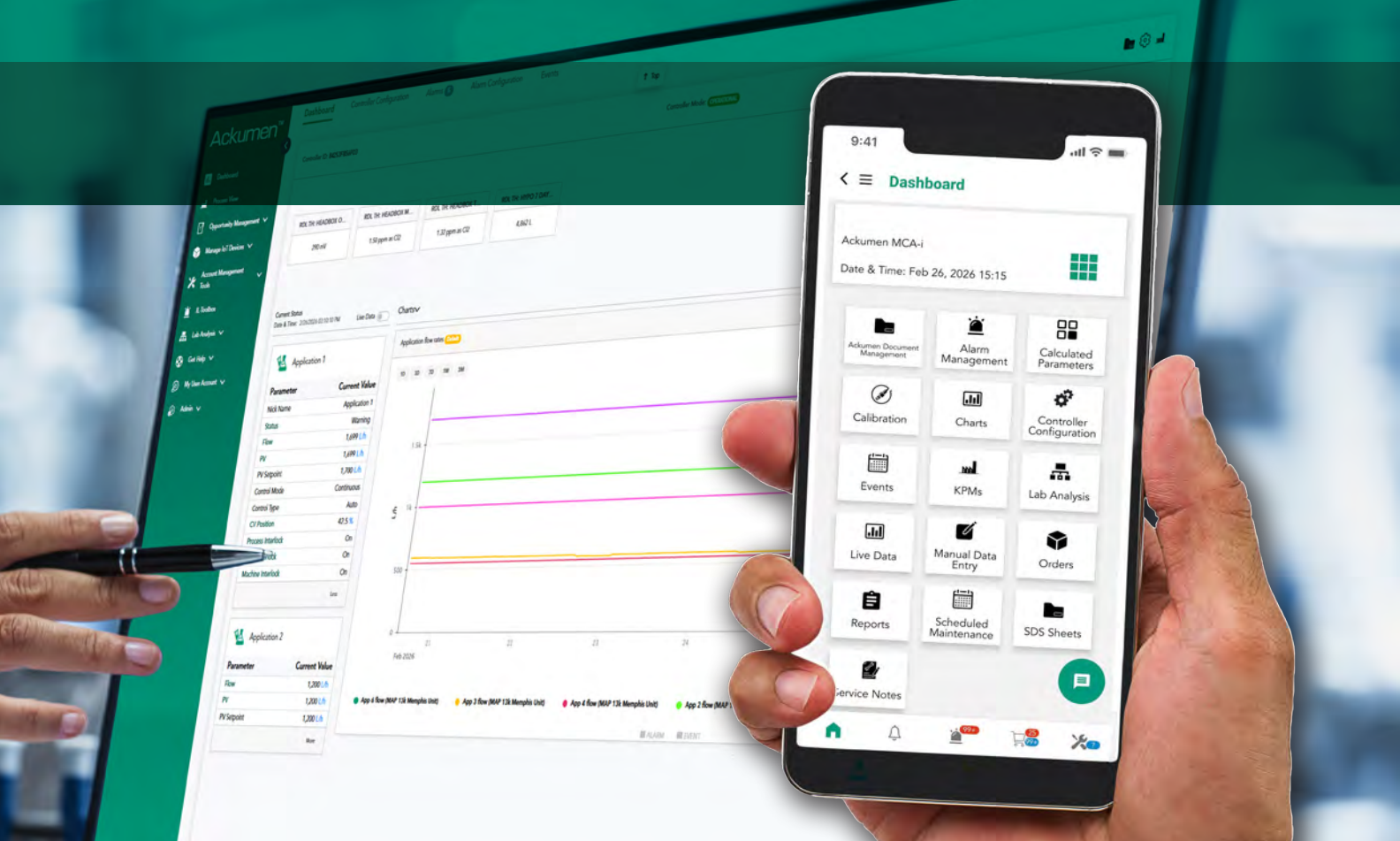
THE MONOCHLORAMINE SOLUTION INFORMED BY ADVANCED SENSING TECHNOLOGY AND ACTIONABLE INSIGHTS.

As a manufacturer of quality packaging, you face some daunting challenges these days: the pressure to use less water, rising contamination in recycled OCC, and greater reliance on anaerobic digesters for effluent treatment, just to name a few. Unfortunately, adapting to these realities can mean adding more chemistries which, in turn, can increase process variability. And that can mean unscheduled shutdowns, not to mention additional costs.

What if you could:

- Increase process stability while reducing holes, defects and breaks
- Improve strength while reducing wet end functional chemistry usage
- Enhance anaerobic digester health
- Have full transparency into your biocide program

With Ackumen MCA-i, **you can.**



A state-of-the art digital platform with actionable insights

Ackumen™ MCA-i™ is a breakthrough, chemical/digital solution that leverages a state-of-the art digital platform with actionable insights to stabilize the wet-end process, dramatically improve performance and reduce overall chemical costs.

A superior microbicide. The ultimate way to manage it. Water treated with MCA contains lower concentrations of regulated disinfection byproducts compared to water treatment with chlorine. Ackumen MCA-i combines our best-in-class monochloramine chemistries with advanced sensing technology, cloud-based data analytics and 24/7 expert monitoring and analysis, to take the work—and the guesswork—out of managing your paper machine systems.

Dosing has never been so precise.

With Ackumen MCA-i, accurate sensor-controlled dosing is tied to production rates, grade changes, pH, ORP, chlorine residual, freshwater usage and more. Plus, Ackumen MCA-i enables you to maintain broke health via a consistent dosage as well as modulated treatment based on distinct types of output. So you can increase process stability, efficiency, and cleanliness.

Smart maintenance keeps Ackumen MCA-i doing its job.

Ackumen MCA-i probes, sensors and pumps are equipped to convey key diagnostic information. This enables the Insights Lab to track calibrations and overall health and create a service calendar for components to be cleaned, calibrated or replaced. These parts are delivered to you automatically. So you can reduce unnecessary downtime due to equipment breakdown or extended maintenance.

Safety features help eliminate worry.

Ackumen MCA-i comes with feed equipment designed for consistent, accurate delivery with a wide application range and flexible dosing options. Even more important, it offers industry-leading safety. Unit alarms come to your phone and our feed equipment includes these advanced safety features:

- Proprietary chemical reaction monitoring
- Multiple layers of redundancy and fail-safes to minimize adverse reactions
- Physical separation and containment of the neat chemicals
- Leak detection
- Automatic flushing of application lines in case power is lost
- Regular inspection by Buckman personnel to ensure efficient, safe operation

Manage Your Chemical Inventory

Whether you are using liquid chemistry or solid, we offer the industry's best Smart Inventory program. For liquid chemistry, our solution allows real-time monitoring of tank levels and instantaneous consumption rates with tank level sensors you already own or with Ackumen sensors. You'll receive anomaly alerts (high or low usage rates) on chemical consumption and identify potential problems before they impact performance or bottom line. You'll also receive reorder recommendations based on projected "days-to-empty." When using our traced chemistry and tagged polymers, you'll have visibility to the products once they're in your system, so you know whether your dosages are being optimized. And with quick online access, you can place orders with one click and track the status of each order in real time.

Insights Lab

Ninety percent of a water system's problems happen during 10% of the time, usually "at 2 am in the morning" when no one is watching. The Insights Lab was designed to address this need. This team is staffed by a blend of highly trained chemical engineers and data scientists who bring with them solid, reliable expertise. They deal with events as they happen, manage most issues remotely and notify you if any action is needed locally. They also offer an unrivaled "2-minute response time" promise for any questions via Ackumen Live Chat. Not a fan of chat? You can get help from AI-Q, the industry's game-changing GenAI support agent.

Program Selection.

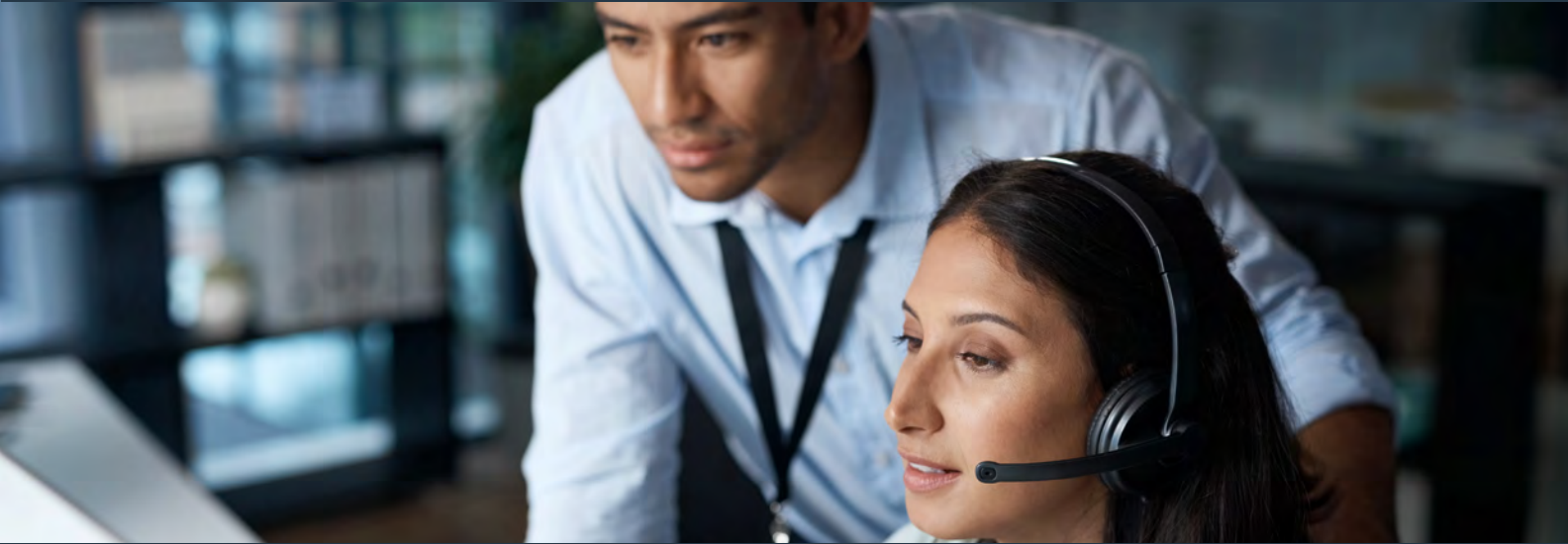
Choosing a chemical treatment program does not have to be a mystery. Ackumen Product Selector allows you to pick the right chemical program and operating parameters.

Ackumen Connected Lab.

Get convenient and accurate offsite water analysis to help you develop a baseline analysis for new program creation. Ackumen also provides flexibility to capture on-site wet analysis. Both types of system data are integrated into Ackumen for charts and reports.

See. Understand. Solve.

With Ackumen MCA-i, mills can use the power of actionable insights to enhance performance even more. Ackumen MCA-i can help you stabilize your overall papermaking process and improve the quality and consistency of your effluent. You can boost performance from your functional chemistries and lower your total cost of operation while improving uptime and protecting your equipment. And you can improve the overall quality of your paper, increasing your yields and margin.



For more information on Ackumen MCA-i for recycled packaging, contact your Buckman sales representative or visit [buckman.com](https://www.buckman.com).

BuckmanTM
Chemistry, connected.



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Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. DIG128H (06/26)

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