



## ACKUMEN™ MCA-i™ TISSUE

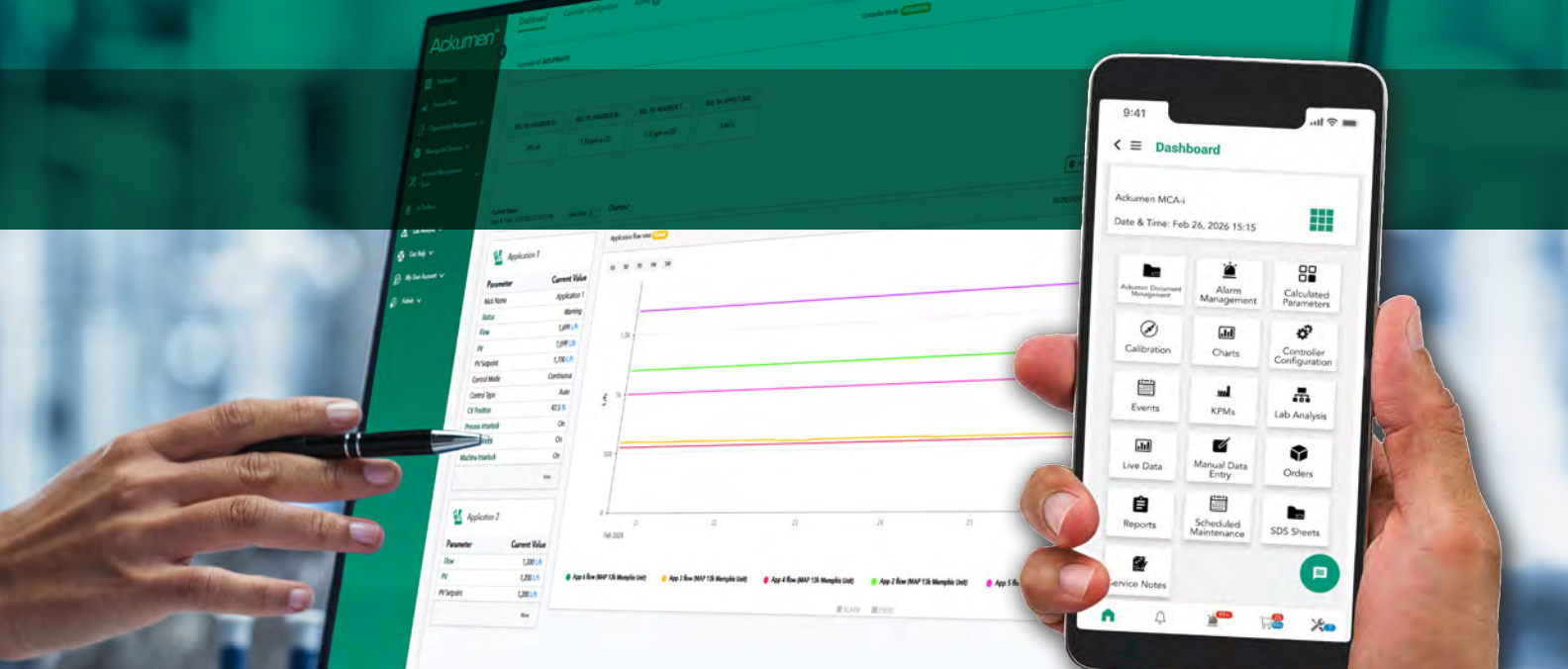
### THE MONOCHLORAMINE SOLUTION INFORMED BY ADVANCED SENSING TECHNOLOGY AND ACTIONABLE INSIGHTS

As a tissue manufacturer, you know accurate dosing is critical to microbiological control. Too little oxidant can leave behind harmful microorganisms; too much can lead to residual toxicity in the product and corrosion of your equipment. Striking that balance is even more difficult—and potentially expensive—especially if you increasingly use recycled content to make tissue. Those sources are even more vulnerable to microbial growth, which can lead to odor issues and spoilage, and ultimately customer dissatisfaction or culls. In addition to those challenges, you're expected to use less water without sacrificing tissue quality.

#### What if you could:

- Reduce MCA consumption while improving microbial control
- Eliminate over-dosing without risking under-treatment
- Stabilize microbial populations and eliminate sudden process upsets
- Reduce downtime caused by slime breaks, deposits or odor events
- Move from reactive biocide treatment to proactive microbial management

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



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

Ackumen™ MCA-i™ is a revolutionary chemical/digital system leverages a state-of-the-art digital platform with actionable insights. It can monitor and accurately control the cleanliness of the incoming fresh water and adjusts monochloramine dosage accordingly. As a result, the right amount of MCA is dosed in all the right places across your process, from stock prep to machine. And that gives you the ability to control microbial growth with less guesswork and chemistry and more efficiency and flexibility.

### **A superior microbicide. The ultimate way to manage it.**

Ackumen MCA-i combines our best-in-class monochloramine chemistries with advanced sensing technology, cloud-based data analytics, 24/7 expert monitoring and analysis, and accurate predictive modeling to take the work-and the guesswork- out of your microbiological program.

### **Optimize your operation with accurate dosing.**

With Ackumen MCA-i, you get sensor-controlled dosing that automatically adapts to changes in grade or source fiber quality. It feeds continuously at different rates, so you can avoid slug dosing and associated corrosion. It provides the correct amount of MCA to control microbial growth and reduces residual toxins. And because it feeds at optimal dosing points, it diminishes the negative impact of oxidant on wet strength or Yankee coatings. Overall, you get a more flexible, cost-effective tissue-making process that delivers a high-quality product—even when you're operating on a reduced water supply.

### **Rely on Ackumen MCA-i to protect your budget with smart maintenance.**

Buckman owns and maintains all equipment, so you can get optimal oxidant control without capital expenses. In addition, Ackumen MCA-i probes and sensors are equipped to indicate when they were made and put into service. This enables the Insights Lab to track calibrations and overall health and create a service calendar for components to be cleaned, calibrated, or replaced. This greatly reduces the likelihood of 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.



**Get the insights you need to manage MCA better.**

Connect with your Buckman sales representative or visit [buckman.com](http://buckman.com) to learn more about Ackumen MCA-i.

**Buckman**   
Chemistry, connected.



This is not an offer for sale. The product shown in this literature may not be available for sale and/or available in all geographies where Buckman is represented. The claims made may not have been approved for use in all countries. Buckman assumes no obligation or liability for the information. Please contact your Buckman sales representative for more information.

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. DIG127H (06/26)

Argentina +54 11 4701-6415; Australia +61 (2) 6923 5888; Belgium +32 9 257 92 11; Brasil +55 (19) 3864-5000; Chile +(56-2) 2946-1000; China +(86-21) 6921-0188; India +(91) 44-2648 0220  
Indonesia +(62) 21-2988 8288; Japan +(81) 3 6202 1515; Korea +(82) 31-416 8991; Mexico +52 (777) 329 3740; Singapore +(65) 6891 9200; South Africa +27 (31) 736 8800; United States +1 (901) 278-0330

Global Headquarters at 1256 N. McLean Blvd., Memphis, TN 38108, USA

Join the conversation!    

© 2026 Buckman Laboratories International, Inc. All rights reserved.

[buckman.com](http://buckman.com)