



**AQUARECYCLE**<sup>®</sup>  
Clean water. Clean profit.<sup>™</sup>

Start saving water, energy, and money—book a free AquaRecycle<sup>®</sup> system consultation today.

Call us at: 1-866-272-9253

Turn Water Into Profit | Volume 6, Issue 1 • Summer 2025 Newsletter | [www.aquarecycle.com](http://www.aquarecycle.com)

## Advancing Sustainability in Commercial Laundry Through Smarter Water and Energy Management

Sustainability is no longer just a buzzword—it's a core requirement for today's commercial laundry operations. Clients, regulators, and corporate ESG (Environmental, Social, Governance) initiatives all expect measurable progress toward environmental responsibility. For laundries serving the hospitality, healthcare, and institutional sectors, meeting those goals while maintaining top-tier hygiene and operational efficiency can be challenging. That's where AquaRecycle<sup>®</sup> delivers a powerful solution.

Commercial laundries typically consume two to three gallons of water per pound of linen. The sheer volume of water processed daily drives up utility expenses and contributes to wastewater discharge and energy usage. AquaRecycle<sup>®</sup> addresses these issues with a closed-loop water recycling system specifically designed for laundry operations.

Recycled water is treated through a robust, multi-step process

including filtration, oxidation, and UV disinfection—ensuring it meets the cleanliness and quality standards required for effective laundering.

Beyond water savings,

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**By capturing and treating up to 85-90% of waste water, AquaRecycle<sup>®</sup> systems reduce freshwater consumption by as much as 80% and lower wastewater discharge by nearly 90%.**

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AquaRecycle<sup>®</sup> systems recover heat from the processed water, allowing incoming water to be preheated with minimal additional energy. This heat recovery feature significantly reduces natural gas consumption and associated carbon emissions—supporting both environmental goals and cost reduction.

Facilities that implement

AquaRecycle<sup>®</sup> not only improve their sustainability profile—they often see full system payback in under two years. With smart monitoring tools like AquaSmart<sup>™</sup> 6.5 and AquaTrakx<sup>™</sup>, operators can track water and energy savings in real time, receive alerts, and generate reports that support ESG tracking and regulatory compliance.

From major hotel brands to healthcare networks and resorts, hundreds of facilities across North America and beyond rely on AquaRecycle<sup>®</sup> to improve environmental performance while reducing utility costs. These systems are more than green upgrades—they're strategic investments that future-proof operations and demonstrate meaningful leadership in sustainability.

For laundries committed to operational excellence and environmental responsibility, AquaRecycle<sup>®</sup> provides the proven path forward—efficient, effective, and engineered for long-term impact.



# Eliminate Risk, Reuse Laundry Water with Confidence

## AquaRecycle®'s C.A.G.E. System Elevates Infection Control in Healthcare Laundries

In healthcare laundries, infection prevention goes far beyond sorting linens or using hospital-grade detergents—it starts with the water. Often overlooked, the water system used to clean hospital and clinic textiles plays a critical role in stopping the spread of dangerous pathogens.

Water is the primary medium for removing soil and micro-organisms from healthcare laundry. If the water source is contaminated or the system is poorly maintained, bacteria like *C. difficile*, MRSA, *Pseudomonas aeruginosa*, or *Legionella* can survive and spread—posing serious risks to patients and staff.

Regulatory bodies such as the CDC and the Healthcare Laundry Accreditation Council (HLAC) have established strict standards for water quality in healthcare laundering. These include precise temperature control, microbial monitoring, and flow management. The CDC recommends washing healthcare textiles at 160°F (71°C) for 25 minutes or using EPA-registered disinfectants if lower temperatures are used. Meeting these standards requires advanced equipment and constant system calibration.

That's where AquaRecycle® delivers a next-level solution—particularly with its C.A.G.E. (Clean & Green E-Series) system, specifically engineered for high-risk environments like hospitals, correctional facilities, and military laundries.

The C.A.G.E. System provides the highest level of contaminant removal and disinfection available in a laundry water recycling platform. The system features triple disinfection—a unique combination of a patent-pending CAG Filter, UV, and ozone treatment—designed to eliminate the most persistent pathogens found in

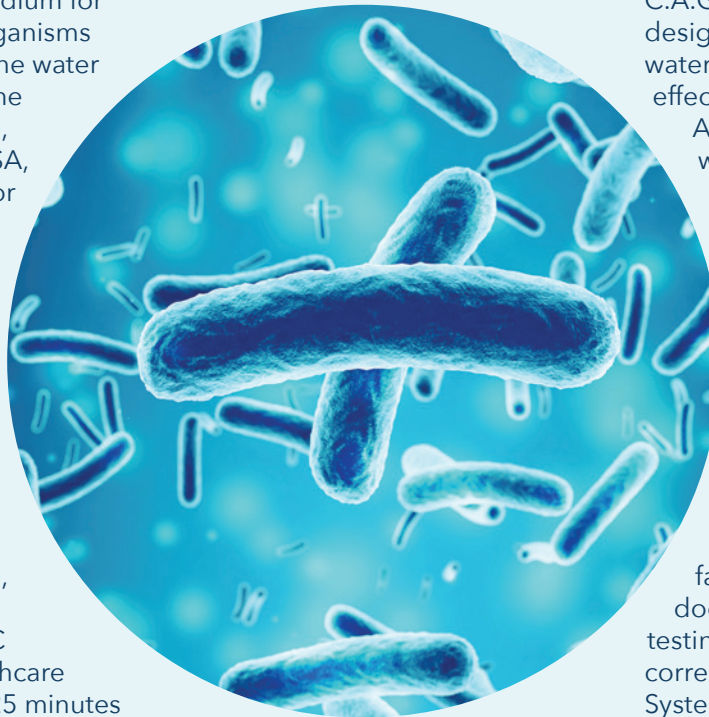
safeguards hygiene but maximizes efficiency and reliability.

While water recycling is essential for cost savings and sustainability, reused water must be properly disinfected and managed. Without robust treatment, it can pose a contamination risk rather than a conservation solution. AquaRecycle's C.A.G.E. System is specifically designed to ensure that reused water remains safe, compliant, and effective in every cycle.

Another hidden risk in laundry water systems is biofilm—bacterial build-up that forms inside pipes and protects microbes from disinfectants. To combat this, AquaRecycle® incorporates proactive flushing, disinfection protocols, and system maintenance tools that help prevent biofilm formation and protect water quality long-term.

HLAC- and TRSA-certified facilities are required to document regular microbiological testing, system maintenance, and corrective actions. With our C.A.G.E. System, healthcare laundries are empowered to not only meet but exceed those expectations through precision-engineered disinfection and smart automation.

In healthcare, even minor oversights in water quality can have life-threatening consequences. That's why investing in a purpose-built water recycling system like AquaRecycle's C.A.G.E. isn't just a smart move—it's an essential component of infection prevention and patient care.



compromised or infectious laundry water.

C.A.G.E. also includes specially formulated media to target and remove tough contaminants, making it ideal for healthcare operations where water quality directly affects patient safety. Combined with AquaSmart™ 6.5, a secure, high-speed monitoring network with 24/7 error detection and performance analytics, the system not only

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# The Hidden Costs of Not Recycling Laundry Water

For healthcare and commercial laundries, water isn't just a utility—it's a core operational resource. On average, laundries use 2 to 3 gallons of water per pound of linen. For large-scale operations processing thousands of pounds each day, that means millions of gallons annually. Yet despite growing awareness around sustainability, many facilities still operate without a water recycling system. The financial and operational consequences of this choice are often greater than they appear.

The most immediate cost is rising utility bills. Municipal water and sewer rates have increased significantly in the past decade, with many regions introducing tiered pricing that penalizes high-volume users. A facility using 5 million gallons annually could be spending \$50,000 to \$100,000 or more in water and sewer charges alone. Without a recycling system, that water—and those dollars—are literally being washed away.

That's where AquaRecycle® makes a difference. Our systems are engineered to capture, clean, and reuse process water—cutting freshwater use by up to 70%. And laundry water isn't just H<sub>2</sub>O; it contains detergents, alkalis, and other chemicals that can be recovered and reused. AquaRecycle's technology helps reduce chemical consumption by up to 20% and energy costs by as much as 50%, thanks to integrated heat recovery systems that reuse thermal energy.

Excessive water use also accelerates wear and tear on washers, boilers, plumbing, and valves—leading to more frequent maintenance, unplanned downtime, and costly repairs. AquaRecycle® systems ease this burden by reducing overall water flow through critical equipment.

On the compliance and client front, water conservation is increasingly tied to ESG (Environmental, Social, and Governance) goals. Healthcare providers are prioritizing sustainability when selecting vendors. Laundries without recycling systems may struggle to meet expectations or earn certifications like HLAC or Hygienically Clean Healthcare—potentially missing out on key contracts. With AquaRecycle®, facilities can confidently demonstrate environmental responsibility and stay competitive.

Regulatory pressure is also mounting, especially in drought-sensitive regions. As discharge regulations tighten, having a recycling solution in place helps future-proof operations and avoid costly penalties or restrictions.

While installing a water recycling system may require upfront investment, the long-term savings and operational resilience make it well worth it. With AquaRecycle®, laundries don't just reduce their environmental footprint—they take control of utility costs, improve system efficiency, and position themselves for long-term success.

## Save Water, Energy and Money with AquaRecycle®

### Can wastewater from tunnel washer be recycled?

Despite common beliefs, tunnel washers don't filter water so they can only reuse unfiltered water. They don't recycle any of it. Even in large laundries utilizing primarily tunnel washers, water ranks as one of the highest utility costs. With rising utility rates and stricter environmental rules, many laundries are turning to AquaRecycle® for advanced, sustainable solutions—cutting water and wastewater expenses by 50% or more, even alongside today's most advanced tunnel systems.

### Reduced Freshwater Consumption

Traditional laundry operations use between 2-3 gallons of water per pound of linen. A mid-sized laundry processing 20,000 pounds per day can consume over 14 million gallons annually. AquaRecycle's PURE (Process Used-water Recycling Equipment) system reclaims and reuses 50-70% of process water, dramatically cutting freshwater demand—and the high costs that come with it.

### Lower Sewer and Discharge Fees

In many regions, sewer fees are equal to or even higher than water usage rates. AquaRecycle's CAGE reduces the frequency and volume of wastewater discharge, helping customers lower their municipal sewer and treatment costs significantly.

### Heat Recovery

Using the integrated Mr. Cool energy recovery module, AquaRecycle® systems capture thermal energy from discharged water. That reclaimed heat is used to pre-warm incoming water, easing the load on boilers and reducing energy usage by up to 30%, while maintaining peak operating efficiency.

### Chemical Savings

Recycled water often retains trace detergents and alkalis that can be reused during pre-wash or early rinse cycles. This reduces chemical consumption, improves wash quality, and cuts supply costs.

### Smarter Performance Monitoring

All AquaRecycle® systems are equipped with AquaTrakx, a real-time monitoring platform that provides performance analytics, error alerts, and system optimization tools—ensuring continuous efficiency and accountability.

### The Bottom Line

AquaRecycle® delivers more than environmental benefits—it delivers real savings. For laundries seeking to reduce costs, meet sustainability benchmarks, and future-proof operations, AquaRecycle® offers the proven technology to lead the way. It's more than an eco-friendly upgrade—it's a smart business decision.

**Contact us to see how AquaRecycle® can cut your water bill in half!**

# Mr. H.E.A.T. – The Smarter Way to Dry

In the world of commercial laundry, energy efficiency is more than a goal, it's a growing necessity for cost control and sustainability. ThermalRecycle™ meets this demand with Mr. H.E.A.T. (Heat Exchange Air Transfer), a groundbreaking system that redefines how facilities use energy during the drying process. This patented innovation is designed to work with virtually any commercial dryer, regardless of age, make, or energy source. By functioning independently of the dryer itself, Mr. H.E.A.T. seamlessly integrates into your operation, reducing energy costs by as much as 50% due to integrated heat recovery systems that reuse thermal energy.

The core of the system lies in the Thermal Heat Wheel, a

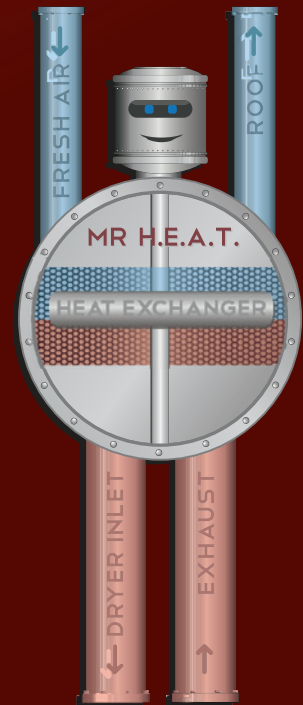
proprietary component that reclaims the hot exhaust air typically lost during drying. Instead of venting this energy into the atmosphere, the system transfers the heat without the accompanying moisture into the incoming airstream. As a result, dryers begin each cycle with preheated air, significantly reducing drying times and lowering energy consumption. Facilities benefit from shorter cycles and noticeable utility savings, all while maintaining, or even improving the quality of the linen.

Keeping the system running at peak efficiency is a patented high-pressure air injection mechanism that continuously clears the Thermal Heat Wheel of lint and debris. This self-cleaning feature ensures consistent

performance around the clock. To further enhance reliability and oversight, Mr. H.E.A.T. is equipped with HEATSmart 6.5, a secure, high-speed private network that provides real-time system monitoring, performance tracking and error detection 24/7.

An added advantage of this more even, lower-temperature drying process is the potential to reduce—or even eliminate—the need for fabric softeners. With fewer chemical additives and improved fabric care, the system supports both environmental goals and better textile longevity.

Mr. H.E.A.T. isn't just another energy-saving device, it's a forward-thinking solution that turns wasted heat into measurable value.



## AquaFi: Positive Cash Flow from Day One

Are high water, sewer, and energy bills draining your laundry's budget? Want to go green but short on capital? AquaRecycle® has a powerful solution to help you start saving now—without waiting on funding.

AquaFi is our flexible internal financing program designed to make sustainability accessible. With AquaFi, you can install a high-efficiency AquaRecycle® water recycling system today and spread the payments over 3 years—no large upfront cost, no financial disclosures, and no personal guarantees required. Just a small down payment gets you started, and most applications receive automatic approval within 24 hours.

Best of all, AquaFi also includes ongoing system service and support, ensuring your AquaRecycle® system performs at peak efficiency throughout the financing period. You'll get the peace of mind that comes with expert maintenance and responsive service, all bundled into one easy monthly payment.

That means you can start reducing utility bills immediately, keep your system running smoothly, and see positive cash flow from day one.

Ready to make your laundry more efficient, more sustainable, and more profitable? Talk to your AquaRecycle® rep about AquaFi and discover just how easy it is to go green—and save green—starting now.

Visit the AquaRecycle® website to download and submit the AquaFi application today at: [aquarecycle.com/finance-options](http://aquarecycle.com/finance-options)



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