



The AquaRev Advantage for  
Hotel & Commercial Pools.

Cleaner Water.  
Reduced Costs.  
Happier Guests.

Trusted By



[www.AquaRevWater.us](http://www.AquaRevWater.us)





# A Smarter Approach to Water Treatment.

Instead of adding more chemicals, power, and complexity, AquaRev Water uses a patented physics technology to create healthier, more stable water. It's a passive, in-line device that augments your existing system into a highly efficient, self-managing asset that reduces costs and improves guest satisfaction.

- ✓ **Uses Physics – Hydrodynamic Cavitation**
- ✓ **Improves Water Conditions & Stability**
- ✓ **Augments Any Existing Pool Systems**
- ✓ **Reduces Chemicals Use**
- ✓ **Reduces Energy Use**
- ✓ **Zero Power Required**
- ✓ **Zero Maintenance**
- ✓ **Zero Moving Parts**
- ✓ **1 Hour Installation**
- ✓ **NSF-50 Certified**
- ✓ **Lifetime Warranty**



Certified to  
NSF/ANSI 50



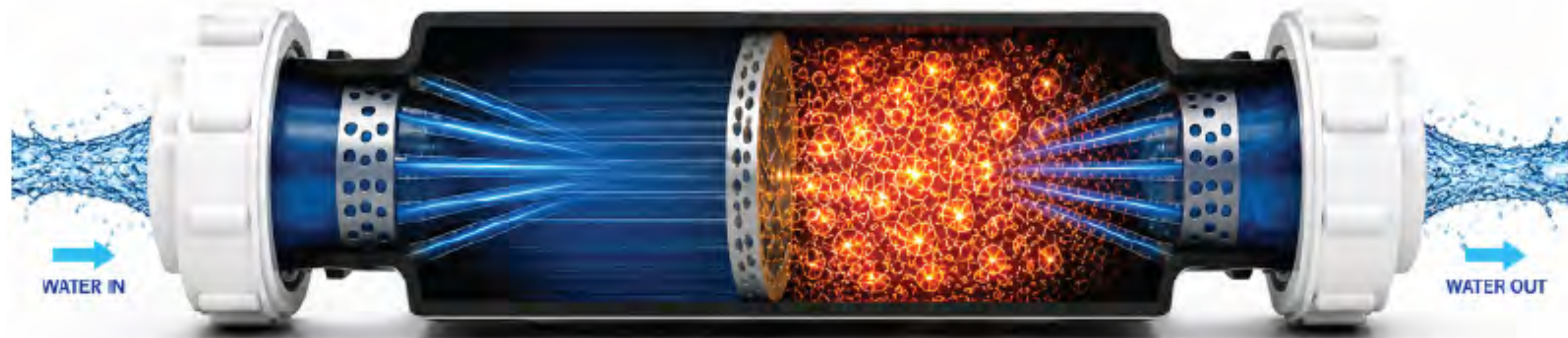
# In-Line Installation

✔ Augments Any Treatment System



# The Science of Cleaner Water, Simplified.

As water passes through AquaRev Water's patented and NSF-50 Certified chamber, it undergoes hydrodynamic cavitation. The process creates and implodes nano-bubbles, a powerful physical reaction that reduces bacteria, breaks down contamination, and naturally cleans, conditions and softens water before it returns to the pool. The process also generates agglomeration of micro particles to be captured when returning to the filter reducing turbidity creating crystal clear, healthy water.



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PATENT AND TRADEMARK OFFICE ®

Patent#: 10,934,180, & 11,358,881 & 12,037,269

WATER FLOW

HYDRODYNAMIC CAVITATION  
NANO-BUBBLE CREATION  
NANO BUBBLE COLLAPSE (500F)

NANO-BUBBLE RELIQUIFICATION,  
CONTAMINANT DEGRADATION &  
WATER CONDITIONING

# The Results: Significant Reductions Across Major Cost Centers

Based on real world use case averages and certified lab reports, properties with AquaRev Water see immediate and significant reductions in operational expenditures and chemical use. Just better water, reduced costs & happier guests.



**50% +**

Operating Cost  
Reduction Report

**41%**

Water Loss  
Reduction

**40%**

Chlorine Use  
Reduction

**25%**

Salt Use  
Reduction

**38%**

Acid Use  
Reduction

**59%**

CO2 Use  
Reduction

Market and laboratory averages, results may vary.



THE RITZ-CARLTON



# Proven at the Highest Level of Hospitality.

Case Study: The Ritz-Carlton, Oahu, HI

**68%**

Operating Cost Reduction

**70%**

Water Loss Reduction

**50%**

Sodium Bicarbonate Use Reduction

**77%**

Salt Use Reduction

**30%**

Acid Use Reduction

**20%**

Energy Use Reduction

# Healthier & Stable Water

- ✓ Improves Water Stability & Reduces Turbidity
- ✓ Extends Equipment Life
- ✓ Reduces Evaporation Water Loss
- ✓ Reduces Chemical, Labor & Energy Demands
- ✓ Reduces Chloramines & Carcinogens
- ✓ Reduces “Chlorine Smell”
- ✓ Reduces Irritants - Skin / Eyes
- ✓ Improves Water Softness 200%
- ✓ Healthier Water & Improved Guest Experience

**Cleaner Water**  
**Reduced Costs**  
**Happier Guests**



# Your Pool is a Hidden Drain on Profitability.

Commercial pools are significant costs centers. For most hotels they represent one of the largest and most volatile operational expenditures, directly impacting Net Operating Income (NOI).

**19%**

of negative guest reviews mention pool quality, water clarity, smell, or cleanliness.



**15%**

Average annual increase in energy costs.

**90%**

Portion of an indoor pool's annual heating costs due to evaporation losses alone.

**8%**

Average annual increase in chemical costs.

**40-70%**

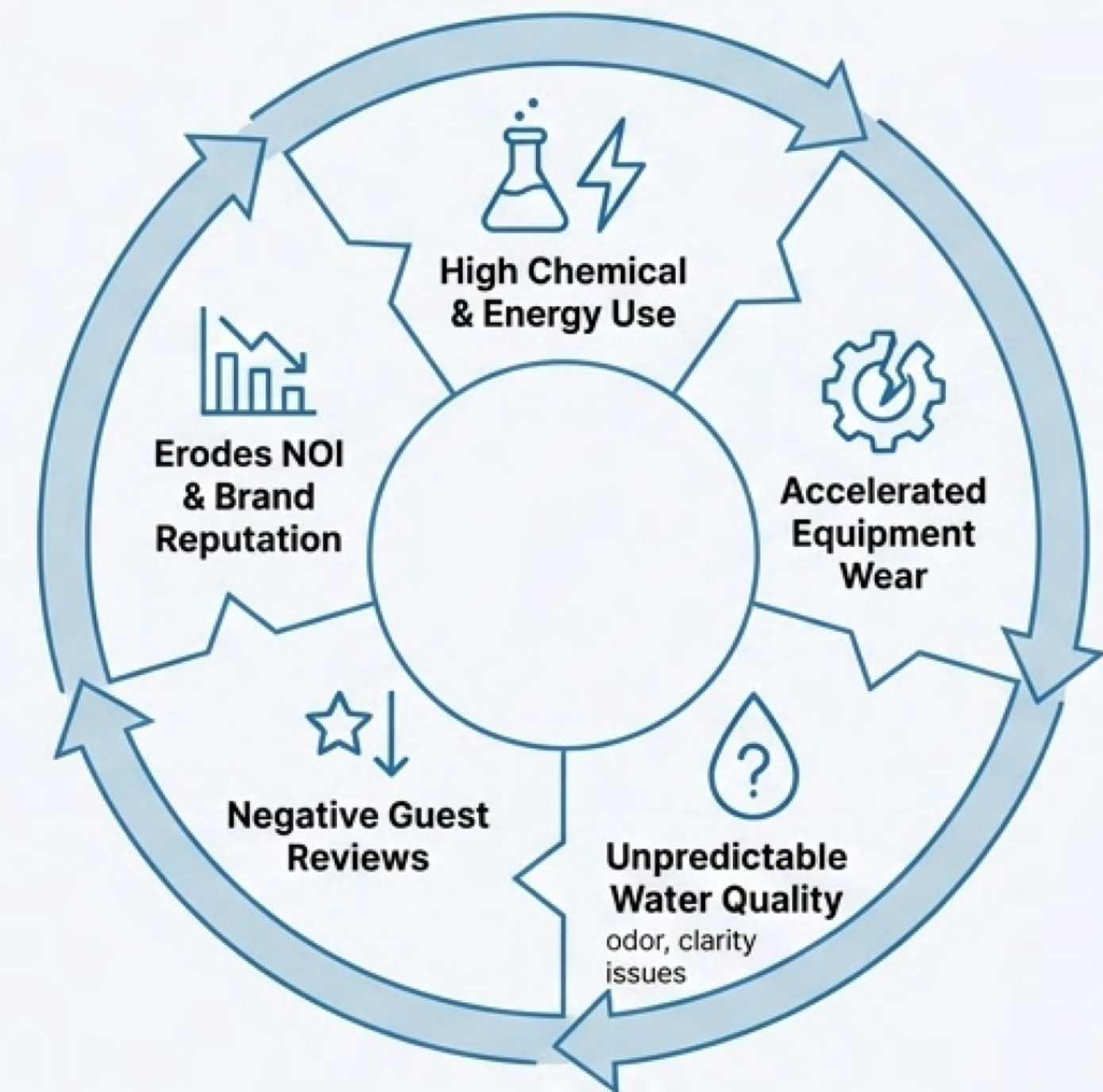
Portion of total energy expenses consumed by HVAC, including pool facilities.

**15-30%**

Portion of a property's total utility cost from pool and spa operations.

# The Vicious Cycle of Variable Costs & Guest Satisfaction.

The challenges of pool management are interconnected. Rising costs for chemicals, water, and energy lead to equipment strain, which in turn causes inconsistent water quality and risks negative guest experiences that directly harm your brand's reputation and property revenues.



**19%**

of negative guest reviews mention pool quality, water clarity, smell, or cleanliness.



# The Constant Battle for Stability & Safety.

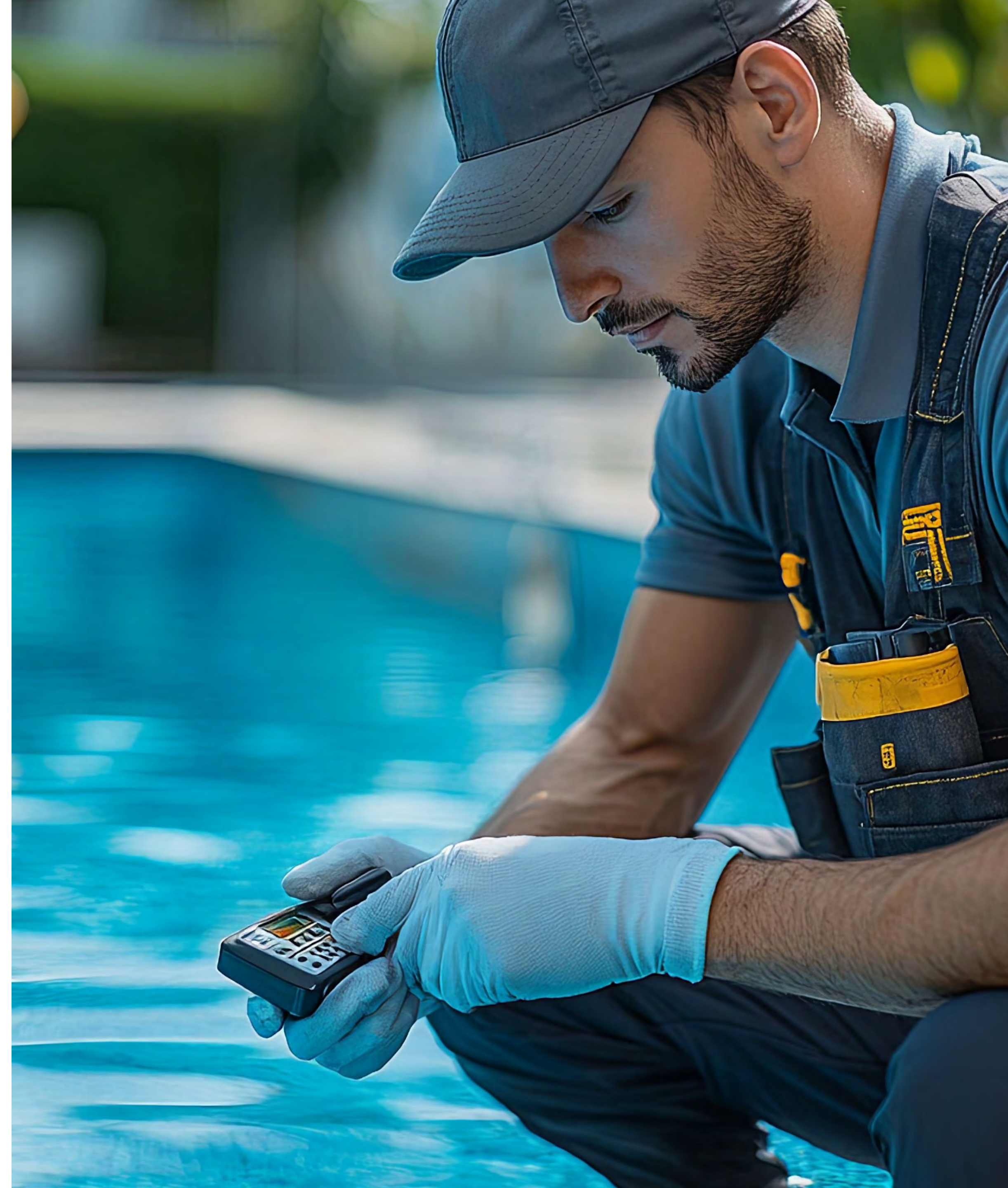
For engineering teams, managing commercial pools is a constant cycle of adjustments and resources maintaining unpredictable conditions that threaten equipment, guest safety and satisfaction.

**Volatile Chemical Costs.** Struggling to balance water chemistry against fluctuation bather loads and environmental factors.

**Equipment Degradation.** Scaling, corrosion and premature failure of pumps, filters and heaters working hard to maintain water conditions.

**Constant Labor Demand.** Allocating significant man-hours to continuous testing, dosing, and cleaning.

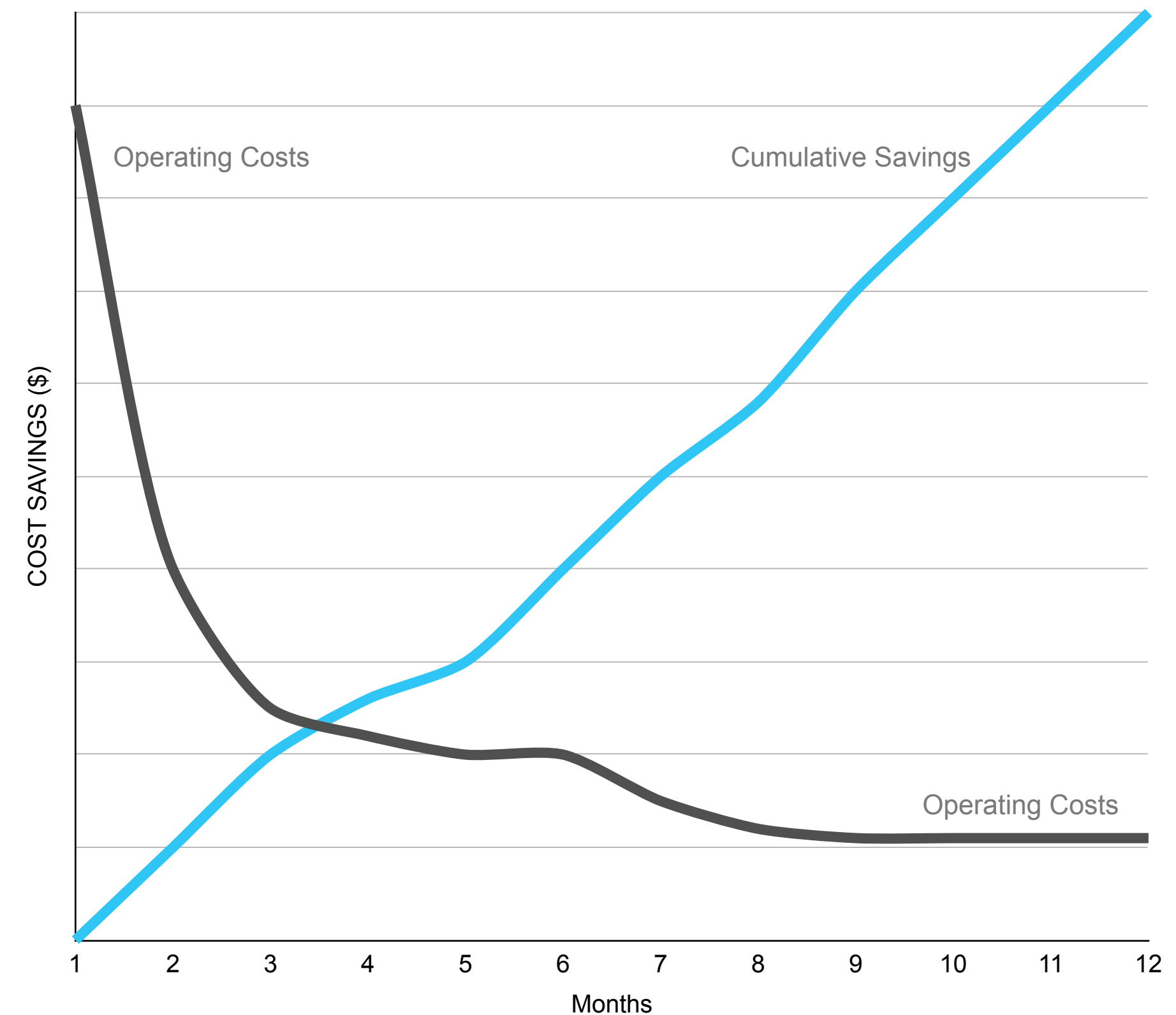
**Compliance Risk.** Navigating health code requirements and ensuring the facility is always inspection ready.



# An Investment That Pays for Itself

With significant and almost immediate reductions in chemical, water and energy use, most hotels costs are producing ROI in months not years. We shift pool operations from a cost center to a source of savings.

- ✓ **ROI.** Drastic OpEx reductions mean the device starts generating positive returns almost immediately.
- ✓ **Protect Your Assets.** Stable, softer water reduces wear on pumps, heaters, and finishes, extending the life of expensive equipment.
- ✓ **Assessable Investment.** The AquaRev Water Advantage program provides monthly prices starting as low as \$99, which can easily produce ROI immediately.



# The AquaRev Advantage: A Clear Win for Operations and Finance.

## For the General Manager

### **Dramatically Lower OpEx.**

Directly improves NOI.

### **Enhance Guest Experience.**

Eliminates chemical odors and produces crystal clear, softer water.

### **Improve Guest Reviews.**

Mitigates the risk of negative reviews related to pool conditions.

### **Positive ESG Impact.**

Demonstrates a commitment to water and energy conservation with results.

## For the Chief Engineer

### **Zero Maintenance.**

Resource protection and critical task focus.

### **Extended Equipment Life.**

Protect capital assets and extends replacement life.

### **Stable & Predictable Water.**

Reduces constant chemical adjustments and consumption.

### **Simple, Non-Disruptive Install.**

Integrates and augments any system in an hour.

# Sustainability & ESG Impact



## ENVIRONMENTAL

Reduction in chemical load released into the environment + reduced packaging and freight.



## ENERGY

Lower energy consumption (up to 20% in energy cycles), no additional power requirements.



## SOCIAL

Healthier swimming environments for guests enjoyment / safety, and responsible operations.



## CONSERVATION

Significant reduction in water loss from evaporation and backwashing.



# Trusted Solution for Major Hotel Operators

AquaRev Water is the trusted water treatment solution of a range of hospitality properties, from luxury resorts to high-traffic select-service hotels, delivering consistent results and reliable performance.



# Certified Performance, Patented Technology

AquaRev Water performance and safety are validated by the industry's most respected certification bodies. Laboratory tested, certified and proven in the real world.



# About the Technology

## Hydrodynamic Cavitation Evolution

**Warship Propellers**

1890

**Collapsing Nano-Bubble Theory**

Lord Rayleigh

1917

**Variable Pitch Racing Boat Props**

Wallace Turnbull

1920

**Hydrolysis of Fatty Oils**

1990

**Food Processing**

1990s

**BIO Fuels, Oil, Gas**

2000s

**Waste Water Treatment**

2010s

**Commercial Aquatics**

2020



# About AquaRev Water

Founder Keith Morrill - CEO, Eng.  
Honolulu, Hawaii in 2021

Enhance global health & preserve our planet.  
Applying a 100-year advancement of a physics principle.

Naturally Revolutionizing Water Purity for  
Hotel & Resort Pool Operations.

**Sustainability**  
**Simplicity**  
**Savings**

**uspto** UNITED STATES  
PATENT AND TRADEMARK OFFICE ®



# Discover Your Property Savings.



## Assessment Review

Confirm Property Specifications  
Formal Quote and Proposal



## Resources & Data Repository

Visit our data repository page with supporting information and documentation.

[www.AquaRevWater.us/data](http://www.AquaRevWater.us/data)



Call: **832-979-6758**

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