



FACT SHEET &
SPECIFICATIONS GUIDE



ENGINEERED WATER ENHANCEMENT SOLUTION
FOR HOSPITALITY & COMMERCIAL AQUATICS

NSF / ANSI 50 · IAPMO · NSF-372
U.S. Patents: 10,934,180 · 11,358,881 · 12,037,269

AQUAREV WATER
832-979-6758
AQUAREVWATER.US



AQUAREV WATER TECHNOLOGY

CLEANER WATER REDUCED CHEMICALS HAPPIER GUESTS

AquaRev Water technology is a patented, non-disruptive, IAPMO R&T - NSF/ANSI/CAN50 water treatment device that augments any existing pool, spa or aquatic system. Operators see measurable reductions in chemical spend, water loss, and energy use — with zero added complexity and no operating downtime. Just cleaner, condition water, reduced costs and happier guests.

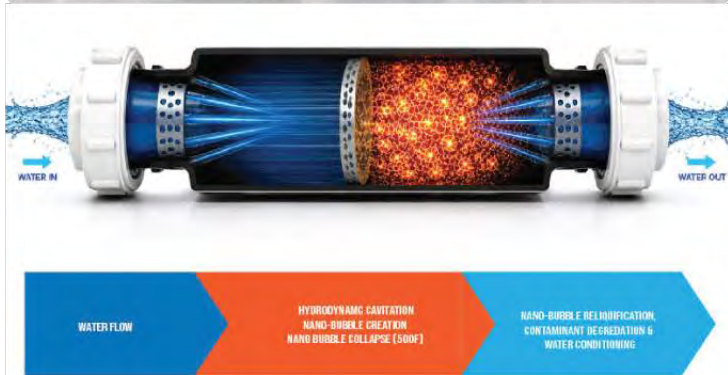


AQUAREV WATER TECHNOLOGY

AquaRev Water is a passive, in-line device that enhances existing pool and spa treatment systems through the controlled application of hydrodynamic cavitation within a patented chamber. As water flows through the system, engineered pressure differentials continuously generate and collapse nano bubbles in a precise, high-frequency cycle.

The implosion of these nano bubbles produces localized, high-energy micro-events—creating transient thermal, mechanical, and oxidative effects within the water. This includes the formation of hydroxyl radicals (OH•), high-shear microjets, and micro-scale temperature spikes, which work simultaneously to disrupt bacteria, break down chloramines, degrade organic contaminants, and stabilize overall water chemistry.

The result is a continuously conditioned water system: cleaner, clearer, and more stable water with reduced chemical demand, improved filtration efficiency, and enhanced operational performance—delivered without added energy, moving parts, or system complexity.



01

INLINE INSTALL

Retrofits onto existing return lines. Hours, not days.

02

CONTINUOUS ACTION

Acts on every gallon — 24/7. No operator input required.

03

COMPOUNDING IMPACT

Lower chemistry, less water make-up, longer equip life.

DOCUMENTED PERFORMANCE OUTCOMES

Source: Field study averages, certified lab reporting, stats.

PROVEN PERFORMANCE

Based on real-world use case averages and certified lab reports, properties deploying AquaRev Water have achieved material reductions across key cost centers.



OPERATIONAL ADVANTAGES	
OPERATING DIMENSION	AQUAREV
Chemical Demand	Material Reduction
Water loss / Make-up	avg. 41%
Chloramine Reduction	up to 70%
Energy use (cycle) Reduction	up to 20%
Equipment Life	Increased
Operating complexity	No Change
Installation Downtime	X Zero
Added Power Required	X Zero
Moving Parts & Maintenance	X Zero

OPERATOR IMACTS

- Cleaner, naturally conditioned pool water
- Major OpEx and water savings
- Positive NOI contribution
- ESG target alignment
- No downtime or disruption to operations
- Improved guest experience
- Compliance / exposure risk mitigation

ESG & SUSTAINABILITY VALUE

Implementation of AquaRev Water technology supports measurable ESG outcomes through:

Environmental: Lower chemical load released, less packaging and freight

Conservation: Reduced water loss from evaporation and backwashing

Energy: Lower energy consumption in treatment cycles; no added power requirement

Social: Healthier swimming environment for guests and responsible operations

*Performance may vary based on facilities, location and other conditions. .



ACTIVE USE CASE · REFERENCE PROPERTY

THE RITZ-CARLTON, TURTLE BAY — O’AHU, HI

68%

OPEX REDUCTION

70%

WATER LOSS RED.

43%

ACID REDUCTION

30%

SALT REDUCTION

50%

SODIUM BIC. RED.

20%

ENERGY USE RED.

“Thank you again, we are still seeing savings since installing AquaRev.”

— DIR. OF ENGINEERING, TURTLE BAY RESORT

Full report available at www.aquarevwater.us/data.

PUBLISHED CORPORATE ESG REPORT

10

TURTLE BAY RESORT
ENVIRONMENTAL SOCIAL
AND GOVERNANCE
REPORT 2022



Environmental

Kuilima Farm Coastal Preservation Solar Rooftop Energy Management System **Pool Conservation** Bio-Diesel Conversion Recycling
Post-Consumer Biodegradable Items Wastewater Treatment Native Flora and Partnership with Hui Kū Maoli Ola Wildlife Encounters Welcome The Whales

Pool Conservation

- ▶ All resort pools have been converted to use natural salt water rather than chemically based chlorine.
- ▶ The chlorine free HDC device naturally kills bacteria with a PH of 7.6 avg. It eliminates the need to manufacture, transport, store and use pool chlorine that is not as friendly to the environment, using high temperatures to sanitize the pools of contaminants.



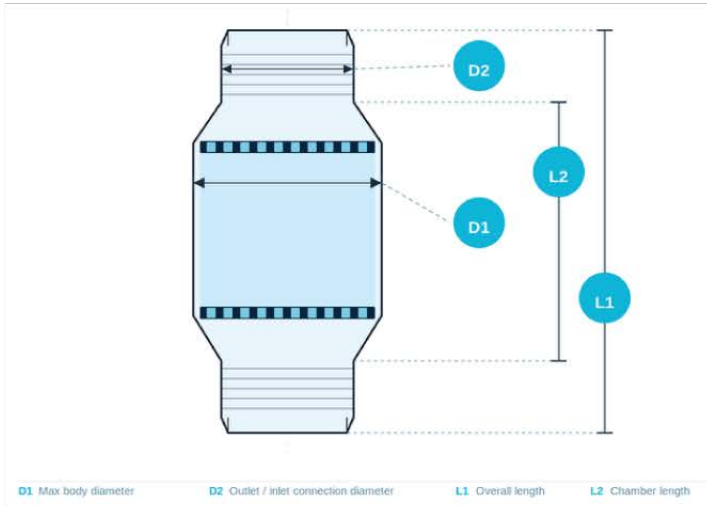
Since 2022, Turtle Bay has saved on all pool chemical usage, used 50% less sodium bicarb, 43% less Sulfuric Acid, 30% less salt, and has seen 60-70% less water evaporation.

Standard Size Comerical Specification Chart. 8" and 10" products are available.
See dimensions diagram for reference.

RETURN PIPE SIZE		2"	3"	4"	6"
PRODUCT ID		KD2X4X2	KD3X6X3	KD4X8X4	KD6X12X6
DESCRIPTION		Water Conditioning	Water Conditioning	Water Conditioning	Water Conditioning
WARRANTY		Lifetime	Lifetime	Lifetime	Lifetime
MOVING PARTS		No	No	No	No
ELECTICITY REQUIRED		No	No	No	No
VENDOR CODE		KD2X4X2	KD3X6X3	KD4X8X4	KD6X12X6
PACKAGE DIMENSIONS		36"L x 10.5"W x 10.5"H	36"L x 10.5"W x 10.5"H	36"L x 10.5"W x 10.5"H	44"L x 16.5"W x 16.5"H
UNIT DIMENSIONS	UNIT DIMENSIONS - ID	STD 2 Inch Outside Diameter	STD 2 Inch Outside Diameter	STD 4 Inch Outside Diameter	STD 6 Inch Outside Diameter
	UNIT DIMENSIONS - D1	5"	7.25"	9.34"	13.75"
	UNIT DIMENSIONS - D2	3.6"	5.060"	6.19"	9"
	UNIT DIMENSIONS - L1	20.25"	24"	28.19"	40"
	UNIT DIMENSIONS - L2	13.375"	15"	18.88"	25"
DIMENSIONS SYSTEM		2"L x 4"W x 2"D	3"L x 6"W x 3"D	4"L x 8"W x 4"D	6"L x 12"W x 6"D
PACKAGE WEIGHT		8 lbs	20 lbs	35 lbs	50 lbs
MIN GPM		44	112	240	440
MAX GPM		127	273	480	1100
HEAD LOSS: PRESSURE DROP PSI		2.6	2.6	2.6	2.6
PRODUCT MATERIAL		PVC	PVC	PVC	PVC
FITTING TYPE		1.95-2.05" ID PVC Threaded Hub	2.90"-3.05" ID PVC Threaded Hub	4" ID PVC Threaded Hub	5.85"-5.95" ID PVC Threaded Hub
LEAD LAW COMPLIANT		Yes	Yes	Yes	Yes
UNIT OF MEASTURE EA.		Qty 1	Qty 1	Qty 1	Qty 1
CAL. PROP 65 COMPLIANT		Yes	Yes	Yes	Yes

SPECIFICATION REFERENCE

INSTALLATION LOCATION



SIMPLE INSTALLATION STEPS

- 01**
- Turn off, and lock out the pump. Make sure the water pipe is not under pressure.
 - Mark, measure and cut the water return lines to the specifications measurements.
 - Clean and remove any burrs or debris from all pipes after cutting.

- 02**
- Apply certified cement adhesive and install and unions onto the cut plumbing.
 - Situate the AquaRev Water device into the water line and tighten the unions snug only (as per the union manufacturer's instructions). Do not over tighten.

- 03**
- Wait until the cement is dry, then turn on the pump.
 - Check for leaks and property system operations.

Tools Required: Pipe Cutter, Tape Measure, PVC Primer, Deburring Tool, Marker, PVC Cement
 Engineering and installation advisory support is available for customers.

The AquaRev Water device requires no regular or scheduled maintenance. It contains no moving parts and is constructed from Polyvinyl Chloride (PVC), the same material used in standard pool plumbing. The unit has no filters, no chemicals, and requires no electrical power or grounding because it contains no metal components. The AquaRev Water device is supplied with two Schedule 40 unions. We recommend installing one on each side of the device to allow easy removal, inspection, or cleaning in the rare event debris bypasses your filtration system and obstructs the device. If the AquaRev Water device ever becomes clogged, turn off and lock out the pump. Loosen the unions, remove the device, rotate it 180 degrees, and run water backward through it for 5 minutes to clear debris. Reinstall the device in its original orientation when finished. **CAUTION:** Turn off and lock out the pool pump before working with PVC cement and plumbing components. Follow all manufacturer instructions and ensure proper ventilation—avoid heat and open flame. The AquaRev device must be installed as the final component in the pool and spa water treatment/recirculation loop (after the pump, filter, heater, and chemical feeders). Install it as close as possible to the pool's return line. If the return line is too short, use additional PVC elbows and lengths to create sufficient space. Qualified pool or spa professional or licensed plumber should install the AquaRev device. Install it on the return line of the system; it will operate correctly in any orientation—horizontal, vertical, diagonal, or angled. Gravity does not affect its performance. Before installation, remove the AquaRev device from its packaging and confirm the IN and OUT flow directions match your system layout. Verify all supplied components—including the Schedule 40 unions—are present. Install the first half of each union using PVC primer and the appropriate solvent cement as recommended by the manufacturer. After solvent curing, attach the unions to the AquaRev device and confirm full insertion before tightening.



TRUSTED BY LEADING OPERATORS



GET STARTED

ELEVATE YOUR WATER & IMPROVE NOI

Bring AquaRev to your property — or portfolio. Our team works directly with hotel operators, ownership groups, asset managers, engineering leads and service providers to scope, model and deploy with no operating downtime.

01

DISCOVERY CALL

15-minute alignment on specifications, current chemistry program and operational priorities.

02

PROPERTY / PORTFOLIO ROI

Custom 5-year financial outlook via the AquaRev ROI Calculator — savings, payback, NOI uplift.

03

DEPLOY & MEASURE

Non-disruptive install on existing infrastructure. Performance baselined and tracked from day one.

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