

Water Reclamation

REDUCING YOUR WATER FOOTPRINT

Reclaim source water

- 85% of the source water is reclaimed as distillate
- Return to gray water system
- Return to process water for reuse

Reduce waste water

- 15% of source water is converted to concentrate
- Reduce leach field burden
- Reduce hauling costs

LOW ENERGY COSTS AND OPERATING COSTS

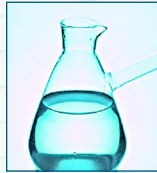
Efficient Design

- 0.045 kWh / gal of distillate
- Counter Flow Heat Exchanger™
- 98% of the thermal energy of condensation is recaptured
- 120v – 900 Watt

Low Operating Costs

- No filters to change
- No chemicals to refresh

↓ 85%



INTRODUCING

The ZanAqua Element™

THE ZANAQUA ELEMENT: BREAKTHROUGH TECHNOLOGY THAT PRODUCES EXCEPTIONALLY PURE WATER AT A VERY LOW COST AND RECLAIMS A VERY HIGH PERCENTAGE OF THE WATER, TYPICALLY 85%.

The Element is a compact, self-contained vapor compression distillation (VCD) purification unit that integrates into water purification and reclamation systems.

PURITY + CONFIDENCE Distillation is the gold standard of water purification because heat kills bacteria and pure water vapor is routed away from contaminants and then re-condensed. There aren't just filters and membranes between a contaminated source and your clean water. The ZanAqua Element kills at least 99.99999% of bacteria (7 Log effectiveness) and yields endotoxin levels less than those required for water for injection (WFI).

7 Log Purity doesn't have to be costly

The innovative ZanAqua Element™ uses only 0.045 kWh to purify a gallon of water, making the gold standard of water purification affordable at a mere four-tenths of a cent per gallon.¹

Other purification methods may require frequent changes of filter elements and membranes to maintain system performance.

Save that water! Reduce removal costs by 85%

ZANAQUA'S TECHNOLOGY HAS A REMARKABLE 85% RECLAMATION RATE, which means for every 100 gallons of source water treated only 15 gallons are lost. Most other methods, including reverse osmosis (RO), waste more water than they reclaim.

ZanAqua Systems Custom Expansion Models

EXPANSION MODELS WITH CUSTOM PRE- AND POST-TREATMENT. Each Element will purify up to 25 gallons per hour (95 l/hr) of tap water to lab-grade reagent water. The Elements are designed to be linked together in our convenient Expansion Module skid of five purification units. Each of the stackable modules has a capacity of 3,000 gallons per day (11,000 l/day).

¹ At \$0.10 per kWh



Call ZanAqua Technologies

FOR EXCEPTIONALLY CLEAN WATER, WITH LESS WASTE

For a dealer in your area, more information, or a site visit, call 603.883.3220 x17 or send an email to sales@zanaqua.com.



Water Purity

DECONTAMINATION AND POLISHING

7 Log bacteria cleansing

- High heat treatment kills bacteria
- Low risk of bacterial contamination from compromised filter material

Effective Against Many Inorganic and Organic Contaminates

- Arsenic
- Fluoride
- Lead
- Mercury
- Asbestos
- MTBE
- TCE
- Other contaminants in solution or suspension.

Purity

- Conductivity < 4 µS/cm
- Laboratory-grade

7 LOG H₂O

more




PURIFIY

RECOMMENDED WATER TREATMENT TECHNOLOGY*

Technology	Biological		Aesthetic		Inorganic Contaminates						Organic Contaminates			
	Bacteria	Cryptosporidium	Hardness	Odor	Arsenic	Fluoride	Lead	Mercury	Iron, Manganese, Copper, Oxide, Sulfide	Asbestos	MTBE	TCE	Abrazine	Benzine
Granulated Activated Carbon				X				X				X	X	X
Solid Activated Carbon			X	X			X	X		X		X	X	X
Activated Alumina filter					X	X								
Aeration											X			X
Anion Exchange					X			X						
Cation Exchange (softeners)			X				X		X					
Disinfection (UV, ozonation, chlorination)	X								X					
Reverse Osmosis		X			X	X	X	X	X	X			X	
Distillation	X	X	X	X	X	X	X	X	X	X	X	X	X	X

*Source: Water Quality Association pamphlet "Recommended Water Treatment Technology" March 2007

 = Treatment finished with carbon filtration



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WASTE