

**ADVANCED
WATER
TREATMENT
TECHNOLOGY**



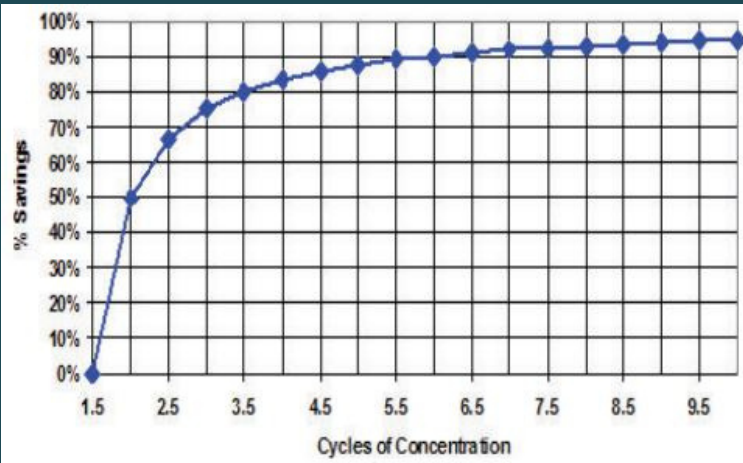
**VODAA
SOLUTIONS**

Water and Energy Solutions for
Commercial, Industrial, Residential

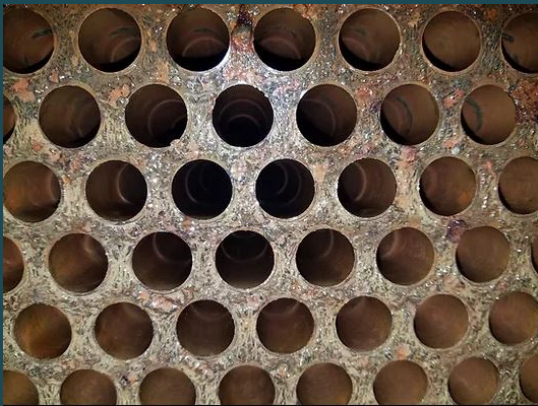


APPLICATIONS

- COOLING TOWERS
- POOLS
- WATER MAINS
- WATER TOWERS



Dramatic COC increases



450T Trane Condensor WV
Has not been brushed since 2015.



Water Feature Treatment Solutions

ADVANTAGES & BENEFITS

- REDUCES WATER CONSUMPTION
- LOWERS ENERGY CONSUMPTION
- PREVENTS AND REMOVES SCALE
- CONTROLS BACTERIA AND BIOFILM
- NON-CORROSIVE ENVIRONMENT
- LOWERS CHEMICAL COSTS



VODAA DROP-IN
TECHNOLOGY

VODAA CLAMP-ON
TECHNOLOGY

COMMERCIAL & INDUSTRIAL

The control and maintenance of cooling systems found on the most commercial and industrial applications are achieved through the use of chemicals. The Vodaa Technology system prevents scaling and corrosion as well as maintaining extremely low bacteria levels while reducing the use of chemicals.

The prevention of scaling is achieved by changing the dissolved calcium ions found in cooling system water into nanoparticles. These nanoparticles do not want to bond to cooling system surfaces and they remain in suspension until they are removed by filtration or blow-down. Even more important, the reduction in "free calcium" prevents new scale from forming and stops the old scale from continued bonding with the cooling system surfaces. The old scale eventually falls off and can be removed during routine maintenance.

Corrosion protection is achieved by raising the pH of the cooling water. Corrosion rates are greatly reduced when the pH is over 8. Virtually all Vodaa Technology systems operate at a pH of 8 or higher. The higher pH neutralizes any acid compounds that form in the cooling system. Open cooling systems generally form carbonic acid by absorbing carbon dioxide from the air. The calcium carbonate absorbs the CO₂ and forms Ca(HCO₃)₂ (calcium bicarbonate). The calcium bi-carbonate remains in the water until it is removed by blowdown.

Bacteria control by the Vodaa Technology system is achieved in two ways. As the cooling water is circulated through our self-contained unit, the electromagnetic fields cause stress in the bacteria contained in the water. The second method is achieved by stabilizing any chlorine that is contained in the make-up water. Most cooling system water supplies contain chlorine added by the supplier. The Vodaa Technology system helps to maintain these chlorine levels or stabilize them for a longer lasting effect. The synergistic effects of the EST field and the stabilization of the chlorine in solution produces a dramatic reduction in bacteria levels. The Cooling Technology Institute recommends that cooling systems maintain less than 10,000 CFU (colony forming units) per m/l of bacteria, especially Legionella. The Vodaa Technology treated water is consistently found to contain less than 1000 CFU/m/l of bacteria.

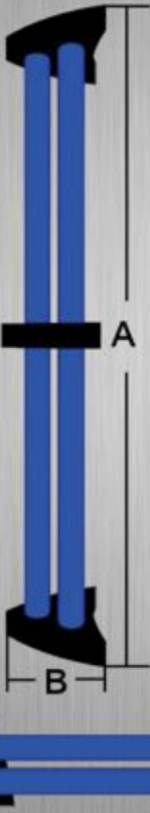


EARLY ADOPTERS





Drop In Unit

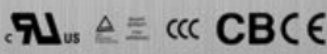


■ Drop In Unit


- Weight 12 lbs
- A - 38"
- B - 7"
- Requires an 8" depth of water
- Input 110VAC
- Output 12V / 0-10A

■ Features:

- Thermal conductive polyurethane body
- UL 94V-0 Fire Rating
- RoHS compliant
- Universal AC Input
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air conduction
- LED indicator for power on
- 100% Full load burn in
- 220° F long life electrolytic capacitors
- Withstand 300 VAC surge input for 5 seconds
- High operating temperature of up to 150° F
- High efficiency, long life and high reliability



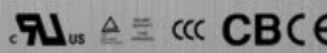
Clamp On Unit 2" & 3" Applications



<p>■ 2" Unit</p> <ul style="list-style-type: none"> • Weight 12 lbs • A - 5" • B - 5.625" • C - 18" • Fits Up To 2" Copper • Input 110VAC • Output 5V - 12V / 0-10A 	<p>■ 3" Unit</p> <ul style="list-style-type: none"> • Weight 22 lbs • A - 6.5" • B - 8" • C - 26" • Fits Up To 3" Copper • Input 110VAC • Output 5V - 12V / 0-10A
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■ Features:

- Thermal conductive polyurethane body
- UL 94V-0 Fire Rating
- RoHS compliant
- Aluminum cover
- Universal AC Input
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air conduction
- LED indicator for power on
- 100% Full load burn in
- 220° F long life electrolytic capacitors
- Withstand 300 VAC surge input for 5 seconds
- High operating temperature of up to 150° F
- High efficiency, long life and high reliability



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