



A revolution in water purification



***Commercial Copper/Silver Ionization System
Model # CS-300***



Premium Model — handles up to 300,000 gallons

CLM-256

Copper/Silver Ionization

- * *Enjoy crystal clear water*
- * *No more red eyes, itchy skin*
- * *Save money on chemicals used*
- * *Environmentally friendly product*
- * *Uses safe, natural minerals*



The Clearwater purification system consists of a state-of-the-art microprocessor control box and a scientifically designed set of electrodes composed of copper and silver that are set slightly apart from one another. Water is passed through a specially designed flow-cell chamber that houses the electrodes. The control box works by generating a precise, low-voltage DC current to the electrodes. The current causes some of the outermost atoms of the electrodes to lose an electron, thus becoming positive ions. Many of these ions are swept away into the body of water that is being purified.

The microprocessor controls the amount of ions introduced into the water. A simple copper-ion test kit determines the amount of ions in the water. The polarity is switched between the two electrodes to insure even wear and tear.

When copper and silver ions are released into the water, these cationic, surface-active ions are a potent biocide. *The copper ions kills algae, and the silver ions kill bacteria and viruses.*

These ions provide long-term, nontoxic purification and prevent against recontamination. They remain in the water until they flocculate, or form masses with algae and bacteria and become large enough to be removed by the filtering equipment. The ionizer is continuously producing new ions.



CS-300 IONIZER SPECIFICATION SHEET

POOL SIZE: up to 300,000 U.S. gallons.

INPUT VOLTAGE: 115 VAC, +/-10%, 50 or 60 HZ
230 VAC, +/-10%, 50 or 60 HZ
(input voltage must be internally selected)

INPUT CURRENT: 800 mA @ 115 VAC
400 mA @ 230 VAC

INPUT POWER: 80 watts

OUTPUT VOLTAGE: 25 VDC

OUTPUT CURRENT: 0 to 1000 mA in 25 mA increments

CIRCUIT PROTECTION: internal input fuse, voltage spike and surge suppression

FUSE: Five (5) 250 mA, 5 x 20 mm, slow-blo (acceptable replacement Radio Shack stock number 270-1061)

IONIZATION METHOD: electrolysis of copper/silver alloy electrodes by a microprocessor control circuit

ELECTRODE: four sets of 6", comprised of copper and silver

ELECTRODE CHAMBERS: (4) 4" pipe size tee with clear extension or (2) 4" cross tees (please specify).

ENCLOSURE: weather resistant NEMA 12 rated high impact corrosion resistant thermoplastic with hinged polycarbonate cover

ENCLOSURE DIMENSIONS: 14 1/2" x 18" x 6"

OPERATING TEMPERATURE RANGE: 32 - 110 degrees F

WARRANTY: 5 years, parts and labor - excluding electrodes

SHIPPING WEIGHT: 67 lb with (4) 4" tees, or 66 lb with (2) 4" cross tees

CARTON DIMENSIONS: 24 cube

