



*A revolution in water purification*



***Residential Copper/Silver Ionization System  
Model # R-20***



***Economical Model — handles up to 20,000 gallons***

CLM-251

## 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*

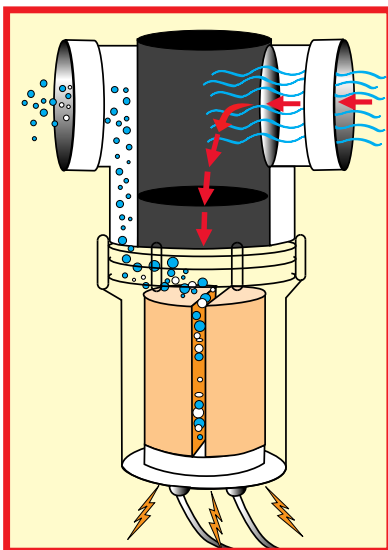


The Clearwater purification system consists of a state-of-the-art microprocessor control box and a scientifically designed set of electrodes composed of copper and silver that are set slightly apart from one another. Water is passed through a specially designed flow-cell chamber that houses the electrodes. 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.



### R-20 IONIZER SPECIFICATION SHEET

**POOL SIZE:** up to 20,000 U.S. gallons. Up to 10,000 gallons in warm water climate

**INPUT VOLTAGE:** 115 VAC or 230 VAC switch selectable.

**INPUT CURRENT:** 70 mA @ 115 VAC  
35 mA @ 230 VAC

**INPUT POWER:** 8 watts

**OUTPUT VOLTAGE:** 20 VDC

**OUTPUT CURRENT:** 0 TO 250 mA with 5 settings in addition to "OFF"

**CIRCUIT PROTECTION:** internal fuse voltage spike and surge suppression

**FUSE:** ¼ amp 5x20mm, fast acting type (Radio Shack # 270-1061)

**IONIZATION METHOD:** electrolysis of copper/silver alloy electrodes by a control panel

**ELECTRODE:** one set 3", comprised of copper and silver

**ELECTRODE CHAMBER:** 2" pipe size tee, slip/slip/threaded, schedule 40 with two reduced bushings to 1 ½"

**ENCLOSURE:** polycarbonate and high-impact ABS molded enclosure meets NEMA 4X specifications. Clear cover that opens. Mounting brackets included.

**ENCLOSURE DIMENSIONS:** 6" x 6" x 3 ¾"

**OPERATING TEMPERATURE RANGE:** 32 - 110 degrees F

**WARRANTY:** 5 years, parts and labor - excluding electrodes

**SHIPPING WEIGHT:** 7.6 lb.

**CARTON DIMENSIONS:** 12" x 11" x 6"