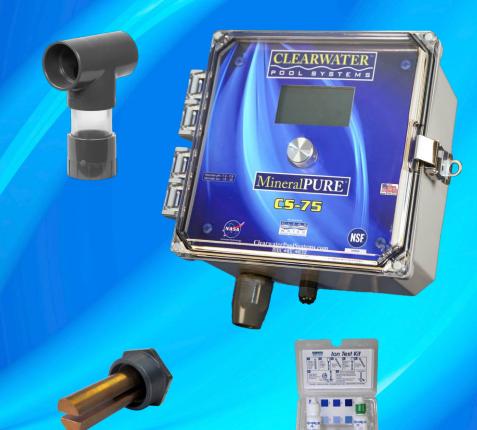


The Healthy Alternative to Chlorine





Premium Model - handles up to 75,000 gallons



SPECIFICATION SHEET

How MineralPURE Works

The MineralPURE purification system consists of a state-of-the-art microprocessor control box and a scientifically designed set of electrodes composed of copper or copper/silver alloy 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 (at milliamp levels) to the electrodes.

Basically, the current causes some of the outermost atoms of the electrodes to lose an electron, thus becoming positive ions. While the water is running through the chamber, many of these ions are swept away before they can reach the other side of the electrodes. As a result, the mineral ions are dispersed into the body of water that is being purified.

Wate

COPPER

The greatest benefit of mineral ionization is that the ions remain in the water providing a residual protection. They provide long-term, nontoxic purification and prevent against recontamination. Unlike most other types of sanitizers, the mineral ions remain in the water until they flocculate, or form masses with algae and bacteria and then become large enough to be removed by the filtering equipment.

Copper lons (Cu+) Water Flow

When the "used" mineral ions are removed, the microprocessor control box is always producing new mineral ions to continuously sanitize the water.



CS-75 IONIZER SPECIFICATION SHEET

POOL SIZE: up to 75,000 U.S. gallons. INPUT VOLTAGE: 90 to 264VAC, at 47 to 63 HZ, auto switching INPUT CURRENT and WATTAGE: With electrode output set to 1000mA (max) Α Т E 375mA at 120VAC (45 Watts), 350mA at 240VAC (84 Watts) OUTPUT VOLTAGE: 2.5VDC to 20VDC, Auto Ranging, Dynamically Adjusted **OUTPUT CURRENT:** Adjustable in 5mA increments 0 to 1000mA DC in analog mode (each output) 0 to 1000mA DC average in pulse width modulation mode (each output) CIRCUIT PROTECTION: internal input fuse, both on high side and low side, input line spike/surge immunity to IEC 1000-4-5, level 3 FUSES: F1 - 2A, 250VAC, 5x20mm, Slow Blow / F2 - 4A, 250VAC, 5x20mm, Slow Blow **IONIZATION METHOD:** electrolysis of copper or copper/silver alloy electrodes by a microprocessor control circuit ELECTRODE: One 6" set of electrodes, comprised of copper (CLE-05), copper/silver alloy electrodes are available - 7" long 90/10 copper/silver alloy electrodes (CLE-20), 6" long 80/20 copper/silver alloy electrodes (CLE-14), contact Clearwater Enviro Tech for details. ELECTRODE CHAMBER: Customers choice between 3" or 4" tees or crosses ENCLOSURE: weather resistant NEMA 4X (IP65) rated, UL 94 Flame Rating, UL UV rated, high impact corrosion resistant thermoplastic with hinged polycarbonate cover ENCLOSURE DIMENSIONS: 8" x 8" x 4" **OPERATING TEMPERATURE RANGE: 32 - 110 degrees F** ION PRODUCTION WITH THE WARRANTY: 3 years, parts and labor - excluding electrodes FOLLOWING WATER CONDITIONS: SHIPPING WEIGHT: 16 lbs. Water Temperature: 72.7 °F CARTON DIMENSIONS: 24" x 12" x 12" Total Chlorine: None pH: 7.45 **HEAD LOSS:** TDS: 347 mg/L When using: Hardness: 215 mg/L CLF-49 – 3" Sch. 80 Tee – Flow Rate of 25 GPM Total Head Loss (psi) is < .20 PSI Total Alkalinity: 85 mg/L CLF-51 – 3" Sch. 80 Cross Tee – Flow Rate of 25 GPM Total Head Loss (psi) is < .20 PSI CLF-48 – 4" Sch. 80 Tee – Flow Rate of 25 GPM Total Head Loss (psi) is < .20 PSI CLF-52 – 4" Sch. 80 Cross Tee – Flow Rate of 25 GPM Total Head Loss (psi) is < .20 PSI HYDROSTATIC PRESSURE: Maximum Recommended Pressure: 50PSI

USING THE CLE-05 ELECTRODE: This Ionizer with the output set to 50% (500mA) produces 358 mg of copper per hour. When set to 100% (1000mA) produces 716 mg of copper per hour.

R ENVIRO TECHNOLOGIES

Cu

Silver Ions (Aa+)

From Pool Micro-Processor To Pool Timer 🔘 Control Box Box Pump Filter Electrode **Optional Location** Chamber for Electrode Chamber (+) (-)∎-

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