

2000/2005

SUPERIOR AQUA SYSTEMS CUIP 4

Water Treatment System:
Copper generating device for algae control

REGISTRATION NO. 22011
PEST CONTROL PRODUCTS ACT

Warning: Staining of pool surfaces may occur due to deposits of copper salts. Excessive levels of copper will increase the probability of this occurrence.

READ THE LABEL AND OWNER MANUAL BEFORE USING

Manufactured in Sarasota, Florida
By: Superior Aqua Enterprises, Inc.
6119 A Clark Center Avenue
Sarasota, FL 34238.

SUPERIOR AQUA SYSTEMS

MODERN ELECTRONIC WATER TREATMENT SYSTEM
THAT WILL REDUCE POOL MAINTENANCE AND
CHEMICAL COST.

PROVEN TECHNOLOGY Electric water treatment using **IONIZATION** was first developed by **NASA** for use aboard **U.S.** Spacecraft. Similar methods are now used to treat water for airlines, ocean going vessels, offshore drilling rigs, breweries and bottlers.

HERE'S HOW IT WORKS: An **ION CHAMBER** containing specially designed electrodes is installed in the pool plumbing system. A safe, low, electronic charge is sent to the electrodes by the **SUPERIOR AQUA SYSTEM** control unit, producing **IONS** which enter the water stream, where they attack and kill algae. The charged, dead micro-organisms attract, forming larger

particles which are removed by the existing filtration system.

SIMPLE With the **SUPERIOR AQUA SYSTEM, IONS** remain in the water to attack and kill algae that enter the pool. **IONS** do not dissipate, and are only removed by the filtration system. Test the ION level once weekly. The **ION** output is easily adjusted and costly pump run time can be drastically reduced.

ECONOMICAL Only pennies a day to operate the **SUPERIOR AQUA SYSTEM.**

RELIABLE Our **UL** approved electronic controller uses proven, state of the art technology and is built to give years of trouble free service, while saving you time and lots of money!

- ** **SAFE**
- ** **EFFECTIVE**
- ** **LOW COST**

At the heart of the **SUPERIOR AQUA SYSTEM** is a specially sealed chamber housing two electrodes. This is called an "**ION CHAMBER.**" It is here that a safe, low, electronic charge produces a mineral **ION** (electrically charged atom particle) which "attacks" impurities in the pool's water. Mother Nature treats water in much the same way, as water rushes through mineral deposits lining the beds of rivers and streams. The solid state controller regulates the number of **IONS** introduced by the **ION CHAMBER.** Since the quantity of impurities in the water may vary from time to time, a weekly ion check is recommended. Your **SUPERIOR AQUA** dealer can show you how quick and easy this is to do with the turn of a knob on the controller box. The system has been designed to minimize service and maintenance. The electrodes typically last two to five years and require no special expertise to replace. Replacement electrodes are inexpensive and readily available from any **SUPERIOR AQUA** dealer.

SUPERIOR AQUA SYSTEMS WATER TREATMENT SYSTEMS

COMMERCIAL APPLICATIONS

INTRODUCTION

All commercial and municipal swimming pools and spas are required to maintain a very high standard at all times. Present methods require maintaining chlorine.

BENEFITS

The **SUPERIOR AQUA SYSTEM** consists of a flow cell, which is simply inserted into the circulation system without interfering with the water flow, and a control unit. The control unit may be mounted on the wall near the flow cell. Simply plug the unit in to a wall outlet (G.F.I. protected) and install the output leads to the flow cell chamber.

MODELS

The **SUPERIOR AQUA SYSTEM** has a range of models which can treat any volume of water. One or more standard units may be sufficient for a pool or spa; the particular model will be governed by the volume of water. Our technical staff can design and build custom units for specific applications.

GENERAL

Laws governing the operation of swimming pools and spas require a minimum residual of free chlorine at all times. We recommend a chlorine residual of 0.5 ppm. Local regulations may vary. These should be checked and observed.

POOL WATER MAINTENANCE			
	MINIMUM	IDEAL	MAXIMUM
ION LEVEL	.2 ppm	.3 ppm	.6 ppm
CHLORINE	AS REQUIRED		
Ph	7.2	7.4 to 7.6	8.0
ALKALINITY	70 ppm	100 ppm	120 ppm
HARDNESS	200 ppm	250 ppm	500 ppm

LOCAL REGULATIONS MAY VARY. THESE SHOULD BE CHECKED AND OBSERVED.

LIGHT COMMERCIAL UNIT SPECIFICATION SHEET

Designed to U.L Specification

Control Unit:
Dimensions: 10x8x6 ½
Weight: 15 Lbs.
Features: U.L. Listed
Enclosure(indoor/outdoor use)

Power:
Input: 110 volts or
220 volts
50/60 hertz
Output: 16 volts Max @
7 amps
Features: Class 2 Transformer
Fusing: 7 amps

HEAVY COMMERCIAL UNIT SPECIFICATION SHEET

Designed to
U.L. Specification

Control Unit: Dimensions:
19 1/2x15 3/4x8
Weight:
25 Lbs.
Features:
U.L. Listed Enclosure
(indoor/outdoor
use)

Power:
Input: 110 volts or 220 volts
50/60 hertz
Output: 16 volts MAX @ 10 amps

Features:

Class 2 Transformer

Fusing:

10 amps

Commercial Pools Products		
Model Description	Gallonage	Flowcell
CUIP-4 Small unit	30,000 or less	4" T type
CUIP-8 Small unit	65,000 or less	8" T type
CUIP-12 Light Commercial	125,000 or less	12-16" Loop
CUIP-1000 Heavy Commercial	200,000 or less	(2) 12-16" Loop
CUIP 1000	300,000	(2) 18-24" Loop

Over 300,000 Gallons will require Two (2) or more units in parallel. All Units available in 220 volts or 110 volts, please specify. This replaces any previous price list or model number.

Effective 4/1/91

INSTALLATION DIAGRAM

Install "tee" fitting before the filter. Tee fitting to be installed so that the flow cell is 15 degrees Above parallel to the ground (see side view below). This will allow any debris to flow out of the flow cell and prevent air from building up in the flow cell.

See diagram.

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