

# Automated CHLORAMINE TREATMENT

The **CHEMTROL™ AUTOMATED CHLORAMINE TREATMENT (A.C.T)** program is designed to solve the problem of chloramine odors in indoor natatoriums with limited supply and recirculation of fresh air. This can be easily done by programming a **CHEMTROL™ PC Programmable Controller** for automatic addition of **POTASSIUM MONOPERSULFATE (PMPS)** and/or an **ENZYME** solution.

## ADVANTAGES

- ✓ **IMPROVES AIR QUALITY** in natatoriums,
- ✓ Works with all **forms of chlorine**,
- ✓ **No need to change chemicals**,
- ✓ **Less expensive** to operate than other systems,
- ✓ **Proven technology**,
- ✓ Works with all **CHEMTROL™ PC** controllers.

## PRINCIPLE OF OPERATION

The programmable addition of an oxidizer together with a sanitizer has been available on all CHEMTROL™ PC3000 and PC6000 controllers since 1996.

PMPS is a strong oxidizer that can be used to destroy chloramines in water. In the A.C.T. system, the required amount of PMPS is calculated and added automatically by using one of the daily or weekly timers of the CHEMTROL™ PC controller.

The addition of enzymes is also designed to reduce the buildup of organics that swimmers introduce in the water, i.e. lotions, oils, makeup, etc.

## APPLICATION

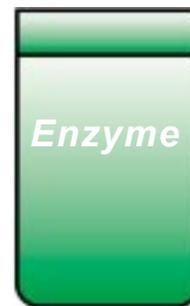
The PMPS feeder can be set to trickle feed at the same rate as the chlorine feeder or independently based on calculated need. For best results, it is recommended to add a minimum of 30% of fresh air to the building every day. It is also recommended to control the Total Dissolved Solids (TDS) level by refilling the pool with fresh water at the rate of 1% of pool volume per day or about 10-ga (35 liters) per bather per day, whichever is higher.

## TECHNICAL SUPPORT

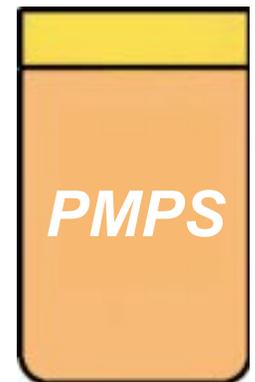
For more information, feel free to contact us with any questions you may have on this and other applications. Expert technical support - based on over 20,000 installations since 1976 - is always available by toll-free phone, fax and e-mail.

## REMOTE OPERATION

With the Remote Operation option, direct on-line support is always available worldwide from our company headquarters in Santa Barbara or from your CHEMTROL™ Qualified Dealer.



**Enzyme  
Solution  
Tank**



**Potassium  
Monopersulfate  
Tank**

Visit our Web Site at [www.sbcontrol.com](http://www.sbcontrol.com) or call today for a free demo CD-ROM



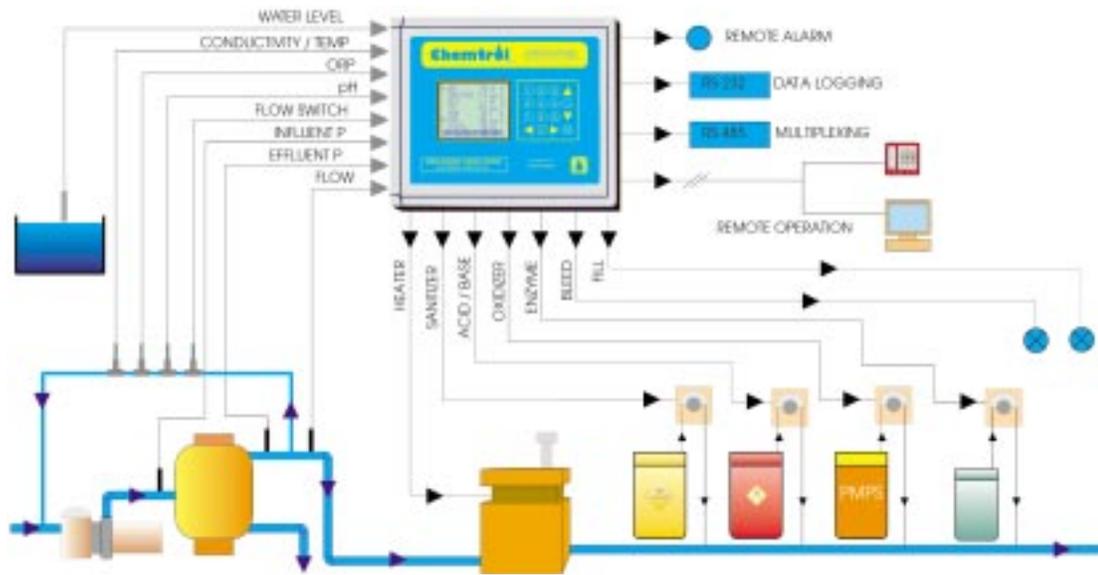
**SANTA BARBARA CONTROL SYSTEMS**  
5375 Overpass Road  
Santa Barbara, CA 93111 - USA

TOLL-FREE  
PHONE  
FAX  
INTERNET

800-621-2279  
805-683-8833  
805-683-1893  
[www.sbcontrol.com](http://www.sbcontrol.com)

Leading in Automated Water Treatment Since 1976

## A.C.T INSTALLATION



## SPECIFICATIONS

<b>SCREEN DISPLAY</b>	8 lines @ 22 characters
<b>ORP CONTROL</b>	0-999 mV with oxidizer or reducer
<b>pH CONTROL</b>	0-14 with acid or base feed
<b>SANITIZER CONTROL</b>	0-10 ppm (mg/l)
<b>CONDUCTIVITY MONITORING</b>	0-5,000 $\mu$ S/cm
<b>TEMPERATURE READOUT</b>	0 to 140 F (-18 to 60C)
<b>SENSOR CALIBRATION</b>	1, 2 or 3 points
<b>CONTROL MODE</b>	Off, Manual, Auto, Timer, Schedule ON/OFF or Proportional Feed
<b>ALARMS</b>	High/Low out-of-range Overfeed and Total run time Dynamic probe failure analysis Visual and audio alarms
<b>DATA LOGGING</b>	On-board memory for up to 999 tests RS232 communication port for local download and printing
<b>MULTIPLEXING</b>	RS485 port for up to 30 controllers
<b>REMOTE OPERATION</b>	Data communication modem CHEMCOM™ software and graphic data display Telephone voice communication
<b>ELECTRICAL</b>	10 A / 110 or 230 V with selector switch All output relays 5 A
<b>WARRANTY</b>	5-year electronics 1-year sensors
<b>MECHANICAL</b>	NEMA 4X fiberglass cabinet 13 x 11 x 6 1/2 in. (34 x 29 x 17 cm)
<b>SHIPPING</b>	18 x 18 x 10" (47 x 47 x 27 cm) carton Weight: 18 lbs (8.2 kg)

## MODEL SELECTION

### STANDARD FEATURES

- ✓ ORP CONTROL
- ✓ PPM CONTROL
- ✓ pH CONTROL
- ✓ HEATER CONTROL
- ✓ LANGELIER SATURATION INDEX
- ✓ AUTOMATIC DATA LOGGING
- ✓ REMOTE ALARM
- ✓ RS232 FOR DIRECT DOWNLOAD
- ✓ RS485 FOR MULTIPLEXING
- ✓ BYPASS LINE ASSEMBLY

### RECOMMENDED ADDITIONAL EQUIPMENT FOR AUTOMATED CHLORAMINE TREATMENT (ACT)

- SOLUTION TANK WITH AGITATOR
- CHEMICAL FEED PUMP
- NATURAL CHEMISTRY ENZYME TANK (5 gal)
- ENZYME FEED PUMP (10 gpd)

REPRESENTED BY: