



# HCC 2000

## AUTOMATED WATER CHEMISTRY CONTROLLER

COMMERCIAL AUTOMATION

Powerful, affordable total pH and ORP control system with or without peristaltic feed pumps



Perfect for swimming pools, spas, and water features, the HCC 2000 is a powerful yet affordable microprocessor-based pH and ORP water chemistry controller. The controller features proportional feed to ensure precise water chemistry maintenance, and operates using the Oxidation-Reduction Potential (ORP) method of water analysis to ensure rapid deactivation of such waterborne pathogens as E. coli in swimming pool water.

The HCC 2000 Complete Package provides the ultimate one stop shop experience, one unit pre-configured with everything required to make water chemistry management simple, convenient, and affordable. This package includes the HCC 2000 controller, flow cell, and flow sensor, all now pre-mounted on a PVC backboard with peristaltic feed pumps for pH and chlorine adjustment.

- Advanced microprocessor-based design technology
- Comes with chemical feed equipment compatible with all existing chemical feed systems; chlorine, bromine, electronic chlorine (salt) generators, acid and CO<sub>2</sub>
- Simple to operate user interface with easy to read LED display
- Complete package offers a total chemical automation system for easy installation and ultimate convenience
- NSF/ANSI Standard 50

# HCC 2000

## AUTOMATED WATER CHEMISTRY CONTROLLER

### FEATURES



\* On complete package model

- Controller, flow cell, flow sensor, two chemical feed pumps\*, and chemical sensor pre-mounted on a 16" x 21" PVC backboard for fast and simple installation
- Fully programmable digital microprocessor-based technology with simple user interface and easy to read display of chemical readings or status
- Heavy duty, commercial grade, pH and ORP sensors with unparalleled performance and longevity
- \*Two integrated, factory wired chemical feed pumps allow for automatic chemical delivery

### Next Generation in Sensor Technology

- Poly-Pro™ solid polymer reference technology matched with patented porous Teflon® fluid junction for high performance longevity and simple maintenance
- Ultra high purity Platinum ORP sensing element
- Durable injection molded 1/2" NPT body provide 4 times storage capacity of standard electrodes



### Power, Performance and Simplicity

- Fully programmable microprocessor-based technology control with pH and ORP set points and alarm settings
- Programmable pH and ORP overfeed times provide extra layer of protection against overfeed chemicals
- pH priority option brings pH within 0.2 pH of set point before feeding chlorine
- Communications capabilities via standard RS232 serial interface



### Less Maintenance and High Durability

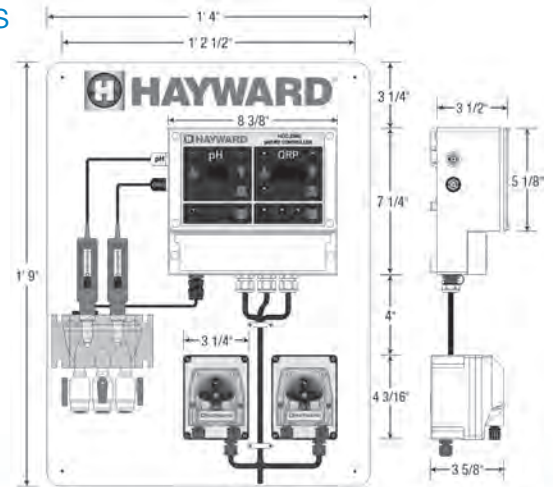
- Nema 4X waterproof polypropylene housing-shock proof and resistant to aggressive chemicals
- Easy maintenance takes seconds to replace peristaltic feed tube
- Fixed speed for reliable and accurate dosing



### TECHNICAL SPECIFICATIONS

Description	Specifications	
Part Number	HCC2000	HCC2000-CP
Description	HCC 2000 Water Chemistry Controller	HCC 2000 Complete Water Chemistry Controller Package
Carton Quantity	1	1
Carton Weight (lbs.)	11.0	20.0
Enclosure	7.25" x 8.25" x 3.5" glass-filled polycarbonate	
Interface	UV Protected Lexan membrane switch	
Certifications	UL94-5V (UL746 C5) NEMA type 1, 4, 4X, 6, 12, 13 NSF / ANSI Standard 50 (HCC2000 Only)	
Display	Light-emitting diode	
Display Range	pH 0.0 – 9.9 / ORP 5 – 995 mV	
Flow Cell	Injection molded flow cell with integral baffles	
Backboard	CNC machined and beveled PVC	
Flow Sensor	Float-style magnetic flow switch	
Power Input	USA – 10 Amp, 120 VAC 60 Hz Intl. – 5 Amp, 240 VAC 50/60 Hz	
Output Power	pH relay – 4 Amp, 120/240 VAC	
Auxiliary Relays	AUX pH relay – dry contacts – 4 Amp	
Communications	RS232 serial interface	
Alarm Contact Relay	Remote alarm – dry contact relay – 4 Amp	
Mode Selections	pH and ORP automatic / off / manual direct feed pH feed – acid or base ORP mode – auto / set pH mode – auto / set / calibrate	
Warranty	Controller 1 year comprehensive warranty Sensors 1 year comprehensive warranty	
Pump Type	Fixed output	
Pump Power Supply	24-240 VAC	
Pump Frequency	50/60 Hz	
Pump Power Consumption	3.5W	
Pump Tube	Santoprene	
Pump GPD	6.34	
Pump Max Back Pressure (PSI)	22	
NEMA Rating	NEMA 4X	
Pump Enclosure	4.2" x 3.2" x 3.6"	
Pump Certifications	ETL/CE	
Pump Warranty	1 year warranty	

### DIMENSIONS



### OPTIONAL ACCESSORIES For Total Chemical Automation



Chemical Feed Pump (2 pumps included as standard with HCC 2000 Complete Package)



Chlorine dispensing for sanitizer control including electronic chlorine (salt) generator

Part Number	Description	Carton Quantity	Carton Weight (lbs.)
AC003	Residential CO <sub>2</sub> pH Control System	1	5.0
AC004	Standard CO <sub>2</sub> System	1	7.0
AC035	Peristaltic feed pump	1	5.0
AQR	Aqua Rite	1	24.0
T-CELL-15	40,000 Gallon Turbo Cell	1	4.3

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