

HCC 1000

AUTOMATED pH CONTROLLER

Precise pH control system,
fully integrated for
ultimate convenience



Water chemistry automation prevents thousands of cases of recreational water illness every year. The HCC 1000 and HCC 1000 Complete Package are single channel pH water chemistry automation systems. The HCC 1000 features a pH sensor, water chemistry controller, flow cell, and pressure sensor, all factory-assembled and pre-mounted on a durable PVC backboard. The Complete Package additionally includes a chemical feed pump mounted on the PVC backboard for ultimate convenience.

The HCC 1000 ensures pH is precisely maintained at the desired level to optimize chlorine effectiveness. Maintaining proper pH protects costly pool surfaces and equipment, extending equipment life and reducing warranty issues. The HCC 1000 series provides powerful technology in a simple, affordable package.

- Perfect for new and existing applications, especially salt water pools
- Automation eliminates time and risks of making manual pH measurements and adjustments
- Proper pH maintenance enhances chlorine effectiveness, bather comfort, and safety
- Factory engineered, pre-configured to ensure simple professional installation



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FEATURES

- Controller, pH sensor, flow cell, pressure sensor, and chemical feed pump*, all pre-mounted on a 16" x 16" PVC backboard for fast and simple professional installation
- Fully programmable digital microprocessor-based technology with simple user interface, easy to read display of chemical readings or status
- Heavy duty, commercial grade pH sensor with unparalleled performance and longevity
- *Integrated, factory wired chemical feed pump automatically provides chemical delivery

*On complete package model



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
- Durable injection molded 1/2" NPT body provide 4 times storage capacity of standard electrodes
- Color coded BNC covers protect instrument connections



Power, Performance and Simplicity

- Fully programmable digital microprocessor-based technology control with pH set point and alarm settings
- Programmable pH overfeed time provide extra layer of protection against overfeed chemicals
- Communications capabilities via standard RS232 serial interface



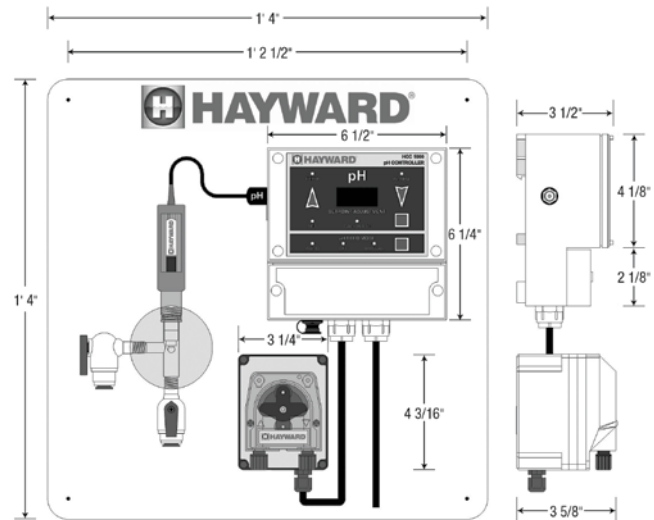
Less maintenance and high durability

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

TECHNICAL SPECIFICATIONS

Description	Specification	
Part Number	HCC 1000	HCC 1000-CP
Description	HCC 1000 Automated pH Controller	HCC 1000 Water Chemistry Controller Package
Carton Quantity	1	1
Carton Weight (lbs)	10	15
Enclosure	7.5" x 6.5" x 3.5" glass filled polycarbonate	
Interface	UV protected Lexan membrane switch	
Certifications	UL94-5V (UL746 C5)	
Display	Light-emitting diode	
Display Range	pH 0.0-14.0	
Flow Cell	Machined Acrylic	
Backboard	CNC machined and beveled PVC	
Flow Sensor	Pressure Flow Sensor	
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 Contact - 4 Amp	
Communications Output	RS232 Serial Interface	
Alarm Contact Relay	Remote Alarm - Dry Contact Relay - 4 Amp	
Mode Selections	pH Automatic / off / manual direct feed pH mode - auto / set / calibrate	
Warranty	Controller 1 Year Sensors 1 year comprehensive	
Pump Type	Fixed Output	
Pump Power Supply	24-240VAC	
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	Pump 1 Year	

DIMENSIONS



OPTIONAL ACCESSORIES

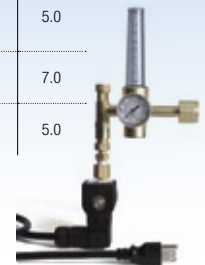
For Total pH Automation



Chemical Feed Pump

(Included as standard with HCC 1000 Complete Package)

Part Number	Description	Carton Quantity	Carton Weight (lbs.)
AC003	Residential CO ₂ pH Control System	1	5.0
AC004	Standard CO ₂ System	1	7.0
AC035	Peristaltic feed pump	1	5.0



CO₂ Feeder