oortable¹

HI97104 · HI971044

pH, Alkalinity, Free and Total Chlorine and Cyanuric Acid Portable Photometer

• Advanced LED optical system

- Innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette.
- LEDs have a much higher luminous efficiency, providing more light while using less power. They also produce little heat, which could otherwise affect electronic stability.
- CAL Check™
 - Validate instrument performance at any time using CAL Check cuvettes made with NIST traceable standards. The CAL Check screen guides the user step-by-step through the validation process and user calibration.
- On-screen tutorial mode with animations
- Guides users step-by-step through the measurement process
- Waterproof and floating IP67 case
- Unit of measure is displayed along with reading

- Built-in timer
 - Built-in reaction timer that ensures consistency between tests.
- Error messages on display
 Alerts to problems including no cap, high zero, and standard too low
- GLP data
 - Displays the last calibration date.
- Auto logging
- Battery status indicator
- Auto-shut off

Significance of Use

Chlorine is the most commonly used water disinfectant used by homeowners, hotels, and commercial businesses. In swimming pools, spas, and similar applications, cyanuric acid helps to stabilize chlorine and prevent its breakdown, especially in sunlight. Frequent testing of both cyanuric acid and pH helps to minimize chlorine consumption.

10.84

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		Pool
Specifications		HI97104 pH, Alkalinity, Free and Total Chlorine , Cyanuric Acid HI971044 pH, Alkalinity, Free and Total Chlorine , Cyanuric Acid
рН	Range	6.5 to 8.5 pH
	Resolution	0.1 pH
	Accuracy @25°C (77°F)	±0.1 pH of reading at 25°C
	Method	adaptation of the Phenol Red method
Alkalinity	Range	0 to 500 mg/L (as CaCO₃)
	Resolution	1 mg/L
	Accuracy @25°C (77°F)	±5 mg/L ±5% of reading at 25°C
	Method	Colorimetric method
Chlorine, Free and Total	Range (all methods)	0.00 to 5.00 mg/L (as Cl ₂)
	Resolution (all methods)	0.01 mg/L
	Accuracy @25°C (77°F) (all methods)	±0.03 mg/L ±3% of reading at 25°C
	Method	adaptation of the EPA DPD method 330.5
Cyanuric Acid	Range	O to 80 mg/L (as CYA)
	Resolution	1 mg/L
	Accuracy @25°C (77°F)	±1 mg/L ±15% of reading at 25 °C
	Method	adaptation of the turbidimetric method
Measurement System	Light Source	light emitting diode
	Bandpass filters	525 nm and 610 nm
	Bandpass filter bandwidth	8 nm
	Bandpass filter wavelength accuracy	±1.0 nm
	Light Detector	silicon photocell
	Cuvette type	round 24.6 mm diameter (22 mm inside)
Additional Specifications	Autologging	50 readings
	Display	128 x 64 pixel B/W LCD with backlight
	Auto-off	after 15 minutes of inactivity (30 minutes before a READ measurement)
	Battery type / Life	alkaline 1.5 V AA (3) / > 800 measurements (without backlight)
	Environment	0 to 50°C (32 to 122°F); 0 to 100% RH, non-serviceable
	Dimensions	142.5 x 102.5 x 50.5 mm (5.6 x 4.0 x 2.0")
	Weight	380 g (13.4 oz.)
Ordering Information	instrument quality certificat CAL Check standards and testing reagent HI97104C and HI971044C	^{s sold separately} includes photometer, CAL Check standards, sample cuvettes (2), sample caps (2), plastic stoppers (2), e wiping cloth, scissors, CAL Check standard certificate, instrument quality certificate,
	Reagents sold separately	
Reagents and Standards	HI97104 / HI971044	HI97775-11 CAL Check standard cuvettes for alkalinity
		HI775-26 alkalinity reagent
		HI97722-11 CAL Check standard cuvettes for cyanuric acid
		HI93722-01 cyanuric acid reagent for 100 tests
		HI93722-03 cyanuric acid reagent for 300 tests
		HI97701-11 CAL Check standard cuvettes for free and total chlorine
		HI93701-01 free chlorine powder reagent 100 tests
		HI93701-03 free chlorine powder reagent for 300 tests
		HI93701-F free chlorine liquid reagent for 300 tests
		HI93711-01 total chlorine powder reagent 100 tests
		HI93711-03 total chlorine powder reagent for 300 tests
		HI93701-T total chlorine liquid reagent for 300 tests
		HI93755-53 chlorine removal reagent
		HI97710-11 CAL Check standard cuvettes for pH
		HI93710-01 pH reagent for 100 tests

HI93710-03 pH reagent for 300 tests

