

HI774 · HI713 · HI717

# Phosphate

Handheld Colorimeters

- Easier to use and more accurate than chemical test kits
- Dedicated to a single parameter
- Small size, big convenience
- Ideal for:
  - Aquaculture
  - natural, waste, agricultural and drinking waters

Orthophosphates are found in natural waters and wastewaters. They are commonly added to drinking water as a corrosion inhibitor. The instantaneous analysis of orthophosphates by colorimetric determination provides rapid results using a standard analysis technique.

The Hanna HI774, HI713, and HI717 Checker®HC bridges the gap between simple chemical test kits and professional instrumentation. Chemical test kits are not very accurate and only give some points resolution, while professional instrumentation can cost hundreds of dollars and can be time-consuming to calibrate and maintain. These Checker HC's are accurate and affordable.

The HI774 Checker HC is a simple, accurate, and cost effective way to measure ultra low range phosphates in seawater. HI774 features a resolution of 0.01 ppm and  $\pm 0.02$  ppm  $\pm 5\%$  of reading accuracy. The HI774 Checker HC uses an adaptation of the Ascorbic Acid method.

The HI713 Checker HC portable handheld colorimeter features a resolution of 0.01 ppm and  $\pm 0.04$  ppm  $\pm 4\%$  of reading accuracy. The HI713 Checker HC uses an adaptation of the Ascorbic Acid method.

The HI717 Checker HC portable handheld colorimeter features a resolution of 0.1 ppm and  $\pm 1.0$  ppm  $\pm 5\%$  of reading accuracy. The HI717 Checker HC uses an adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Amino Acid method.



Specifications	HI774 (Marine ULR)	HI713 (LR)	HI717 (HR)
Range	0.00 to 0.90 ppm	0.00 to 2.50 ppm	0.0 to 30.0 ppm
Resolution	0.01 ppm	0.01 ppm	0.1 ppm
Accuracy @25°C (77°F)	$\pm 0.02$ ppm $\pm 5\%$ of reading	$\pm 0.04$ ppm $\pm 4\%$ of reading	$\pm 1.0$ ppm $\pm 5\%$ of reading
Light Source	LED @ 525 nm		
Light Detector	silicon photocell		
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing		
Battery Type	1.5V AAA (1)		
Auto-off	after seven minutes of non-use and two minutes after reading	after three minutes of non-use and two minutes after reading	after ten minutes of non-use and two minutes after reading
Dimensions	86.0 x 61.0 x 37.5 mm (3.4 x 2.4 x 1.5")		
Weight	64 g (2.3 oz)		
Method	adaptation of Standard Methods for the Examination of Water and Wastewater, 20th edition, Ascorbic Acid method. The reaction between phosphate and the reagent causes a blue tint in the sample.	adaptation of the Standard Methods for the Examination of Water and Wastewater, 20th edition, Ascorbic Acid method. The reaction between phosphate and the reagent causes a blue tint in the sample.	adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Heteropoly-molybdenum Blue method. The reaction between orthophosphate (reactive phosphorus) and the reagent causes a blue tint in the sample
Ordering Information	<p><b>HI774</b> Checker®HC is supplied with sample cuvettes with caps (2), marine phosphate ULR reagent starter kit (reagents for 10 tests), battery, instructions, and quick start guide.</p> <p><b>HI713</b> Checker®HC is supplied with sample cuvettes with caps (2), phosphate LR reagent starter kit (reagents for 6 tests), battery, instructions, and quick start guide.</p> <p><b>HI717</b> Checker®HC is supplied with sample cuvettes with caps (2), phosphate HR reagent starter kit (reagents for 20 tests), battery, instructions, and quick start guide.</p>		
Reagent Set	<b>HI774-25</b> (25 tests)	<b>HI713-25</b> (25 tests)	<b>HI717-25</b> (40 tests)
Calibration Set	<b>HI774-11</b>	<b>HI713-11</b>	<b>HI717-11</b>