Phosphate Handheld Colorimeters

Checker® HC handheld colorimeter

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

These HANNA HI 713 and HI 717 Checker® HC's bridge the gap between simple chemical test kits and professional instrumentation. Chemical test kits are not very accurate and only give only some points resolution while professional instrumentation can cost hundreds of dollars and can be time consuming to calibrate and maintain. The HANNA HI 713 and HI 717 Checker®HC's are accurate and affordable.

The HI 713 Checker®HC portable handheld colorimeter features a resolution of 0.01 ppm (250 points) and ±0.04 ppm (mg/L) ±4% of reading accuracy. The HI 713 Checker®HC uses an adaptation of Standard Method 4500-P E, Ascorbic Acid method.

The HI 717 Checker®HC portable handheld colorimeter features a resolution of 0.1 ppm (300 points) and ±1.0 ppm (mg/L) ±5% of reading accuracy. The HI 717 Checker®HC uses an adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Amino Acid method.

The HI 713 and HI 717 Checker®HC's are extremely simple to use. First, zero the instrument with your water sample. Next, add the reagents. Last, place the vial into the Checker®HC, press the button and read the results. It's that easy.

Easier to use and more accurate than chemical test kits

- Ascorbic acid method for HI 713, amino acid method for HI 717
- HI 713: ±0.04 ppm ±4% of reading accuracy
- HI 717: ±1.0 ppm ±5% of reading accuracy
- Large, easy to read digits
- Auto shut off

Dedicated to a single parameter

- Designed to work with HANNA's reagents
- Uses 10 mL glass cuvettes

Small size, big convenience

- Weighing a mere 64 g (2.25 oz.), the Checker®HC easily fits into the palm of your hand or pocket
- Use for quick and accurate on the spot analysis
- Single button operation: zero and measure
- Operated by a single AAA battery

Ideal for:

- Aquaculture, natural, waste, drinking waters and agriculture

SPECIFICATIONS	HI 713 (Phosphate LR)	HI 717 (Phosphate HR)
Range	0.00 to 2.50 ppm (mg/L)	0.0 to 30.0 ppm (mg/L)
Resolution	0.01 ppm (mg/L)	0.1 ppm (mg/L)
Accuracy @ 25°C/77°F	±0.04 ppm (mg/L) ±4% of reading	±1.0 ppm (mg/L) ±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) 1.5V AAA	
Auto-off	after two minutes of non-use and ten seconds after reading	
Dimensions	81.5 x 61 x 37.5 mm (3.2 x 2.4 x 1.5")	
Weight	64 g (2.25 oz.)	
Method	adaptation of the Standard Methods for the Examination of Water and Wastewater, 20th edition, Ascorbic Acid method	adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Amino Acid method

ORDERING INFORMATION

HI 713 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents for phosphate (6), battery and instructions.
HI 717 Checker®HC is supplied with sample cuvettes with caps (2), reagents for 20 tests, battery and instructions.

REAGENTS AND STANDARDS

HI 713-25	Reagents for 25 tests (Phosphate LR)
HI 717-25	Reagents for 40 tests (Phosphate HR)
HI 713-11	Calibration checking set (0.00 and 1.00 ppm phosphate)
HI 717-11	Calibration checking set (0.0 and 15.0 ppm phosphate)

ACCESSORIES

HI 731318	Cuvette cleaning cloth (4)
HI 731321	Glass cuvettes (4)
HI 731225	Caps for cuvettes (4)
HI 93703-50	Cuvette cleaning solution, 230 mL