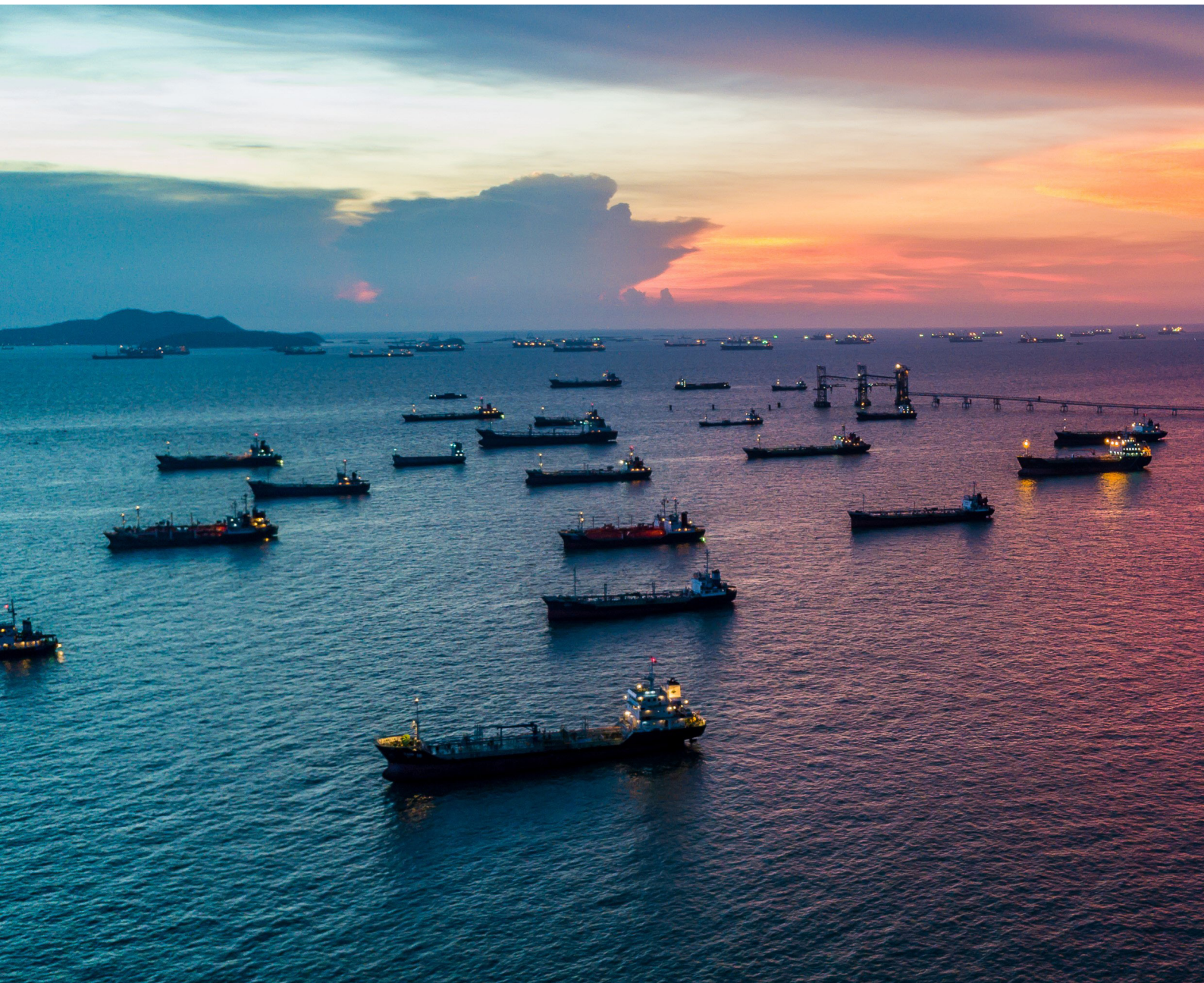


# WATER TESTING SOLUTIONS

## Marine Potable Water Test Kits



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## Potable Water Test Kits

The Potable Water Test Kit enables ships staff to monitor the quality of the drinking water on board the ship by providing tests for important operational control parameters and verification tests for bacteria that can be of risk to human health. The range of tests can be used on the ship either as a standalone control solution or as a supplement to laboratory analysis, dependant on flag state guidelines.

### Features

- Self contained testing kit for E.Coli and Coliforms.
- Helps you to meet MLC 2006 recommendations for the quality of drinking water.
- Includes compact and robust sample incubator.
- USB with training material.

### Benefits

- Incubator ensures that you achieve consistent test results.
- Additional test kits can be added as required to meet flag state and / or company requirements.
- USB training material supports you with crew training and competency.



### Diseases on board ships

Improperly managed water is an established route for infectious disease transmission on ships. This was illustrated in a review of more than 100 outbreaks associated with ships undertaken by Rooney et al. (2004). One fifth was attributed to a waterborne route.

### WHO "Guide to Ship Sanitation" (Third Edition)

"A ship operator's role is to provide safe water to passengers and crew, fit for all intended purposes. Water on board should be kept clean and free from pathogenic organisms and harmful chemicals. Responsibilities are to monitor the water system, particularly for microbial and chemical indicators, to report adverse results under the IHR 2005, where required and to take corrective action".

### Maritime Labour Convention 2006

The Marine Labour Convention (MLC) 2006 is the platform for the international Labour Organisation (ILO) to implement standards for the employment and living conditions for workers in the marine industry. These standards include the requirement that "Each member shall adopt laws and regulations or other measures to provide minimum standards for the quantity and quality of food and drinking water and for the catering standards that apply to meals provided to seafarers on ships that fly its flag, and shall undertake educational activities to promote awareness and implementation of the standards referred to in this paragraph." (Standard A3.2 Food and Catering)



WTS-K100141 Standard Potable Water Kit

- 1 x Marine Heavy Duty Plastic Case & Foam
- 1 x Digital Incubator (110v/240v)
- 1 x Comparator
- 2 x Comparator Cells
- 1 x Chlorine LR (Free & Total) (0 – 1ppm) Comparator Test (100)
- 1 x Chlorine LR (0 – 5ppm) Comparator Test (100)
- 1 x Chlorine HR (0 – 250ppm) Comparator Test (100)
- 1 x pH (4 – 11) Comparator Test (100)
- 1 x Digital Temperature Meter
- 1 x UV Lamp
- 1 x HPC (TVC) Aerobic Bacteria Pack (0 – 1400 CFU/ml) (40)
- 1 x Coliforms/E Coli Pack (Detects 1 CFU/100ml) (25)
- 1 x Instruction Manual & Log Book

WTS-P100158 Standard Potable Kit Annual Consumables Pack

- 1 x Aerobic Bacteria Pack (0 – 1400 CFU/ml) (40)
- 1 x Coliforms/E Coli Pack (Detects 1 CFU/100ml) (25)
- 1 x Chlorine LR (0 – 1ppm) Comparator Pack (100)
- 1 x Chlorine LR (0 – 5ppm) Comparator Pack (100)
- 1 x Chlorine HR (0 – 250ppm) Comparator Pack (100)
- 1 x pH (4 – 11) Comparator Pack (100)

WTS-K100142 Full Potable Water Kit

- 1 x Marine Heavy Duty Plastic Case & Foam
- 1 x Digital Incubator (110v/240v)
- 1 x Comparator
- 2 x Comparator Cells
- 1 x Chlorine LR (0 – 1ppm) Comparator Test (100)
- 1 x Chlorine LR (0 – 5ppm) Comparator Test (100)
- 1 x Chlorine HR (0 – 250ppm) Comparator Test (100)
- 1 x pH (4 – 11) Comparator Test (100)
- 1 x Digital Temperature Meter
- 1 x UV Lamp
- 1 x Aerobic Bacteria Pack (0 – 1400 CFU/ml) (40)
- 1 x Coliforms/E Coli Pack (Detects 1 CFU/100ml) (25)
- 1 x Enterococci Pack (Detects 1 CFU/100ml) (20)
- 1 x Pseudomonas Pack (Detects 1 CFI/100ml) (20)
- 1 x Instruction Manual & Log Book

WTS-P100159 Full Potable Kit Annual Consumables Pack

- 1 x Aerobic Bacteria Pack (0 – 1400 CFU/ml) (40)
- 1 x Coliforms/E Coli Pack (Detects 1 CFU/100ml) (25)
- 1 x Enterococci Pack (Detects 1 CFU/100ml) (20)
- 1 x Pseudomonas Pack (Detects 1 CFI/100ml) (20)
- 1 x Chlorine LR (0 – 1ppm) Comparator Pack (100)
- 1 x Chlorine LR (0 – 5ppm) Comparator Pack (100)
- 1 x Chlorine HR (0 – 250ppm) Comparator Pack (100)
- 1 x pH (4 – 11) Comparator Pack (100)

#### WTS-K100185 Marine Potable Chlorine Kit

- 1 x Marine Heavy Duty Plastic Case & Foam
- 1 x Comparator
- 2 x Comparator Cells
- 1 x Chlorine (Free & Total) VLR Comparator Test (0 – 1 mg/l) (100)
- 1 x Chlorine (Free & Total) LR Comparator Test (0 – 5 mg/l) (100)
- 1 x Chlorine HR Comparator Test (0 – 250 mg/l) (100)
- 1 x Instruction Manual & Log Book

#### WTS-P100963 Marine Potable Chlorine Consumables Pack

- 1 x Chlorine LR (0 – 1ppm) Comparator Pack (100)
- 1 x Chlorine LR (0 – 5ppm) Comparator Pack (100)
- 1 x Chlorine HR (0 – 250ppm) Comparator Pack (100)

#### WTS-K100186 Marine Potable Bacteria Kit

- 1 x Marine Heavy Duty Plastic Case & Foam
- 1 x Digital Incubator (110v/240v)
- 1 x UV Lamp
- 1 x Coliform/E Coli Test Pack (Detects 1 CFU/100ml) (25)
- 1 x HPC (TVC) Aerobic Bacteria Test (0 – 1400 CFU/ml) (40)
- 1 x Instruction Manual & Log Book

#### WTS-P100964 Marine Potable Bacteria Consumables Pack

- 1 x Aerobic Bacteria Pack (0 – 1400 CFU/ml) (40)
- 1 x Coliforms/E Coli Pack (Detects 1 CFU/100ml) (25)

#### WTS-B100050 Digital Incubator

The digital incubator brings lab like conditions to the field of onsite testing of bacterial contamination. To create reliable and repeatable incubation conditions when in the field has been a problem in the past because small and portable but on the other hand reliable and temperature stable incubators were not available. A bacteriological analysis demands an incubator to create repeatable results.

The digital incubator offers a reliable, temperature stable environment for the incubation of bacteriological samples and that while being portable and affordable.

- Applicable for testing of a multitude of different parameters.
- Touch screen control.
- Digitally adjustable temperature with real time display of the actual inside temperature.
- Clear viewing lid.
- Dimensions: 215x161x170mm
- Operating Temp: 35 °C - 45 °C
- Power: 100 /240V AC 50/60 Hz
- Weight: 4kg



## Legionella Test Kits

The Industrial Legionella Test Kit is a quick and effective kit to deliver microbiological results in minutes instead of days. The test kit is a compact kit delivered in a case with easy and clear instructions.

The Industrial Legionella Test Kit uses an immunochromatographic assay to detect the presence of cell surface antigens from Legionella bacteria in a sample. The presence of antigen causes the test line to turn red.

### WTS-B100099 Legionella Biofilm Kit (5)(Stored Water)

- Test Time < 35 Minutes
- Tests Included 5
- Sensitivity 200CFU/Swabbed Area



### WTS-B100100 Legionella Industrial Kit (5)(Distribution System)

- Test Time < 35 Minutes
- Tests Included 5
- Sensitivity 100CFU/L



### Optional Extras for the Potable Water Test Kits

WTS-P100966 Copper Comparator Test (0 -1ppm) Disc & Reagents (50)

WTS-B100125 Copper Test Strips (0 – 5ppm) (25)

WTS-P100965 Iron Comparator Test (0 -1ppm) Disc & Reagents (50)

WTS-B100124 Iron Test Strips (0 – 5ppm) (25)

WTS-B100030 Turbidity Test (5 – 500 JTU) (Unlimited Tests)



## HI727 Hanna Handheld Colorimeter

- Easier to use and more accurate than chemical tests.
- Dedicated to a single parameter.
- Small size, big convenience.
- Ideal for water quality.

True colour is caused by dissolved compounds in water and can be both natural or artificial. Apparent colour is caused by both dissolved and suspended solids. Colour is measured in Platinum-Cobalt units (PCU). The AWWA recommends  $\leq 15$  PCU.

**Step one** Zero the instrument with deionised water.

**Step two** Prepare the sample according to the Apparent / True colour measurement.

**Step three** Place the second vial with prepared sample into the Checker<sup>®</sup>HC, press the operational button and the HI727 Checker<sup>®</sup>HC displays the colour of water in PCU.

## WTS-B100834 Color Colorimeter 0 - 500 PCU

- 1 x Plastic Case with Vacum Form Insert
- 1 x Color Colorimeter
- 2 x 10ml Glass Cuvette & Black Cap
- 1 x AAA Battery

### Consumables:

- WTS-B100835 Color Colorimeter Standards
- WTS-B100878 Deionised Water (250ml)
- WTS-B100954 10ml Glass Cuvette (Pack of 4)
- WTS-B100955 10ml Glass Cuvette Black Cap (Pack of 4)
- WTS-B100956 Cuvette / Cell Cleaning Solution (230ml)



### Colour Colorimeter Specifications:

Range	0 - 500 PCU
Resolution	5 PCU
Accuracy @ 25 °C / 77 °F	+/- 10 PCU +/- 5% of reading
Light Source	LED (470nm)
Light Detector	Silicon Photocell
Environment	0 - 50 °C (32 - 122 °F); RH max 95% non-condensing
Power Source	1 AAA 1.5V Battery
Auto Power Off	10 Minutes
Size	81.5mm X 61mm X 37.5mm
Weight	64g