**Pentair R151186**

# Pentair Pen Test KIT All in ONE #78HR R151186 User Manual

Model: R151186

## Product Overview

The Pentair Pen Test KIT All in ONE #78HR R151186 is a comprehensive 4-way test kit designed for analyzing pool and spa water. It includes reagents and a test cell for measuring Chlorine (Cl), pH, Acid Demand, and Total Alkalinity.




Image: Components of the Pentair Pen Test Kit, including reagent bottles and the test cell.

This kit provides the necessary tools for routine water quality checks, ensuring balanced and safe water conditions. It comes with a water test booklet for guidance on interpreting results and adjusting water chemistry.




Image: The Pentair Pen Test Kit neatly stored within its blue carrying case, showing the organized compartments for reagents and the test cell.

## Setup

Before first use, ensure all components are present and undamaged. The kit includes:

- Lucite test cell with wide standards
- 1-ounce bottles of No. 1, No. 2, No. 3 reagents
- 1/2 ounce bottles of No. 4, No. 5 reagents
- Water test booklet
- Blue display box (storage case)

Familiarize yourself with the water test booklet, which contains detailed instructions for each test and interpretation of

results.

## Operating Instructions

This kit allows for testing of Chlorine, pH, Acid Demand, and Total Alkalinity. Always follow the specific instructions provided in the included water test booklet for accurate results.

### General Testing Procedure:

1. **Collect Water Sample:** Dip the test cell into the pool/spa water to the desired fill line, typically elbow deep and away from jets or skimmers.
2. **Add Reagents:** Add the specified number of drops of the appropriate reagents (No. 1, No. 2, No. 3, No. 4, No. 5) into the respective chambers of the test cell. Refer to the water test booklet for exact quantities for each test (Chlorine, pH, Acid Demand, Total Alkalinity).
3. **Mix:** Cap the test cell and gently invert to mix the reagents with the water sample. Do not shake vigorously.
4. **Read Results:** Compare the color of the water sample in the test cell to the color standards on the test cell or in the water test booklet. Note the corresponding value.
5. **Record and Adjust:** Record your readings and consult the water test booklet for recommended ranges and instructions on how to adjust your water chemistry if readings are outside the ideal range.

### Specific Tests Overview:

- **Chlorine (Cl) Test:** Measures the free chlorine level in the water. Essential for sanitation.
- **pH Test:** Measures the acidity or alkalinity of the water. Proper pH is crucial for swimmer comfort and chemical effectiveness.
- **Acid Demand Test:** Determines the amount of acid needed to lower pH if it is too high.
- **Total Alkalinity Test:** Measures the water's ability to resist changes in pH. Proper alkalinity helps stabilize pH.

## Maintenance

- **Clean Test Cell:** After each use, thoroughly rinse the test cell with clean tap water. Do not use detergents or abrasive cleaners, as they can affect future test results.
- **Store Reagents Properly:** Keep reagent bottles tightly capped and store them in a cool, dark place, away from direct sunlight and extreme temperatures. This helps prolong their shelf life and accuracy.
- **Check Expiration Dates:** Reagents have a limited shelf life. Check the expiration dates on the bottles and replace expired reagents to ensure accurate readings.
- **Handle with Care:** Avoid dropping or damaging the test cell and reagent bottles.

## Troubleshooting

- **Inaccurate Readings:**
  - Ensure reagents are not expired.
  - Verify correct number of drops for each reagent.
  - Ensure test cell is clean and free of residue.
  - Collect water sample from an appropriate depth and location (away from skimmers/returns).
  - Avoid testing immediately after adding chemicals to the pool/spa.
- **Difficulty Matching Colors:**

- Perform tests in good, natural lighting.
- Hold the test cell against a white background for better contrast.

- **Reagent Dispensing Issues:**
  - Ensure bottle is held vertically when dispensing drops.
  - If a clog occurs, gently tap the bottle or clear the dropper tip with a clean, non-metallic object.

## Specifications

| Attribute | Value |
|---|---|
| Model Number | R151186 |
| Product Dimensions | 0.75 x 1.16 x 1.25 inches (Test Cell) |
| Kit Dimensions (Approx.) | Approximately 3/4-inch length by 1-1/4-inch height by 1-4/25-inch width (overall kit in display box) |
| Item Weight | 1.05 pounds |
| Manufacturer | Pentair |
| Country of Origin | USA |
| Tests Included | Chlorine (Cl), pH, Acid Demand, Total Alkalinity |

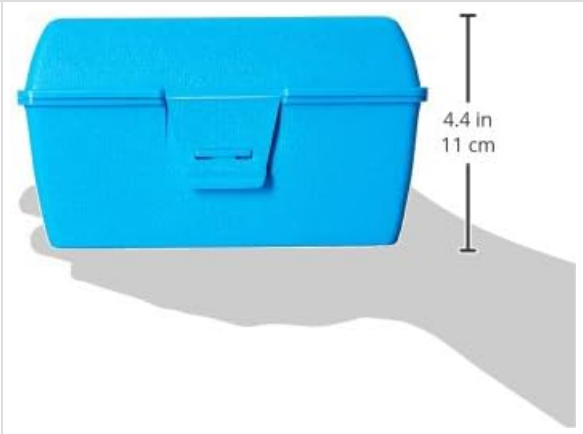



Image: Side view of the blue carrying case, indicating approximate dimensions of 4.4 inches (11 cm) in height.

## Warranty Information

Specific warranty details for the Pentair Pen Test KIT All in ONE #78HR R151186 are typically provided with the product packaging or can be found on the official Pentair website. Please refer to the documentation included with your purchase for the most accurate and up-to-date warranty terms and conditions.

## Support

For technical assistance, product inquiries, or to purchase replacement reagents, please contact Pentair customer support. Contact information can usually be found on the product packaging, the official Pentair website, or through authorized dealers.
You may also visit the official Pentair store on Amazon for additional product information and support resources: Pentair

Store

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