



PENTAIR

DIRECTIONS: Never let reagents remain in test vial. Clean and rinse after each test. Hold bottles vertically for proper drop size. Take water samples from a depth of 18" (away from return lines). Test tablets should be white. Do not touch tablets. False reading may result. More detailed information in booklet.

1 DPD #1 FREE CHLORINE /TOTAL BROMINE TEST

1. Fill CL/Br test cell to line with water.
2. Add one #1 DPD tablets.
3. Place cap on cell and invert vial several times to dissolve (15 to 35 seconds).
4. Compare color in cell to CL/Br color standards.
5. Note the reading and save sample for Total and Combined test.

1A DPD #3 TOTAL AND COMBINED CHLORINE TEST (This test is not necessary for Bromine)

1. Add one #3 DPD tablet to above test.
2. Place cap on cell and invert vial several times.
3. If color darkens, chloramines are present. Compare color in cell to CL color standards.
4. Subtract ppm of Free chlorine from ppm of Total chlorine to obtain ppm of Combined chlorine.
5. A difference of more than 0.2 ppm may indicate a need for superchlorination.

Pentair Water Pool and Spa, Inc. • Sanford, NC • Moorpark, CA • Chino, CA
P/N R24124 REV. D 7/14
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RAINBOW™ MODEL 78DPD ALL-IN-ONE TEST KIT FOR POOL OR SPA

2 pH TEST (Ideal pH 7.4 - 7.6 ppm)

1. Fill large vial to solid line.
2. Add 1 drop solution #4 (2 drops if chlorine test is above 1.5 ppm or Bromine above 3.5 ppm) and mix by swirling.
3. Add 5 drops solution #2 and mix by swirling and compare test to pH color standards.
4. If reading is above 7.8, perform Acid Demand Test #3 using this same water sample. Test and adjust total alkalinity (if needed) before adjusting pH.

3 ACID DEMAND TEST (If pH is above 7.8 ppm)

1. Add solution #3 one drop at a time, counting drops, swirling between drops, until color matches 7.6 to pH color standards.
2. Refer to Acid Demand Chart for proper amount of acid to be added to pool or spa.

4 TOTAL ALKALINITY

1. Fill large test vial to lower broken line.
2. Add 1 drop solution #4 (2 drops if Chlorine test was above 1.5 ppm or Bromine above 3.5 ppm) and mix thoroughly by swirling.
3. Add 1 drop solution #5.
4. Add solution #3 one drop at a time (swirling between drops) and counting the number of drops necessary to change color to clear or light yellow.
5. Multiply drops of solution #3 used by 10. See test booklet for additional information.