# COLOR COMPARISON TEST FREE, COMBINED & TOTAL CHLORINE (0.1-2.0 ppm) pH (6.8-8.2)

#### COMPONENTS:

#### Chlorine 1 x R-

1 x R-0001-A DPD Reagent #1, .75 oz, DB 1 x R-0002-A DPD Reagent #2, .75 oz, DB 1 x R-0003-A DPD Reagent #3, .75 oz, DB

#### На

1 x 4028 Pipet, Calibrated (0.5 mL) w/ cap, plastic 1 x R-1003J-A pH Indicator Solution (Phenol Red), .75 oz

#### APPARATUS:

1 x 3243 Cap, Test Cell (11.5 mL), plastic 1 x 4024 Test Cell, Calibrated (11.5 mL), plastic

1 x 5147 Instruction 1 x 6002 Brush, Test Cell

1 x 9053 Midget Comparator, pH, Phenol Red, 6.8-8.2

1 x 9241 Midget Comparator, Chlorine (free/total), DPD, 0.1-2.0 ppm

TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE 800-TEST KIT (800-837-8548).

## PROCEDURE:

# CAREFULLY READ AND FOLLOW PRECAUTIONS ON REAGENT LABELS. KEEP REAGENTS AWAY FROM CHILDREN.

NOTE: When dispensing reagents from dropper bottles, **always** hold bottle in a vertical position.

# Free, Combined & Total Chlorine Test

- 1. Rinse and fill 11.5 mL test cell (#4024) to mark with water to be tested.
- 2. Add 5 drops R-0001 DPD Reagent #1 and 5 drops R-0002 DPD Reagent #2. Cap and mix.
- Wipe dry and place in comparator (#9241) WITH FROSTED SIDE FACING OPERATOR.

## Instr. #5147

- Match color in test cell with a color standard. Record as parts per million (ppm) free chlorine (Cl<sub>2</sub>).
- 5. Add 5 drops R-0003 DPD Reagent #3. Cap and mix.
- Wipe dry and place in comparator WITH FROSTED SIDE FACING OPERATOR.
- 7. Match color. Record as parts per million (ppm) total chlorine (Cl<sub>2</sub>).
- Subtract free chlorine (FC) from total chlorine (TC). Record as parts per million (ppm) combined chlorine (CC) as Cl<sub>2</sub>.
  Formula: TC - FC = CC

#### pH Test

- 1. Rinse and fill 11.5 mL test cell (#4024) to 11.5 mL mark with water to be tested.
- Using 0.5 mL pipet (#4028), add 0.5 mL R-1003J pH Indicator. Cap and mix.
- Wipe dry and place in comparator (#9053) WITH FROSTED SIDE FACING OPERATOR.
- 4. Match color in test cell with a color standard. Record as pH units.

NOTE: If sample color is between two values, pH is average of the two.

NOTE: If determining Acid or Base Demand, save sample and proceed as directed on separate instruction.

