To minimize the risk of serious injury, death or damage, before installing or first using this equipment, read Instruction Manual and all safety labels and follow all safety instructions and precautions. Save manual for future reference.

Customer Service 800-222-0169
kingtechnology.com
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For information on King Technology’s entire product line, visit our website at kingtechnology.com
Thank you for choosing Prevail. This system will maintain a clean, clear swimming pool while you spend less time on maintenance and more time having fun! There are two parts to the Prevail System:

**Part 1: Prevail Cycler 170**  
The water treatment center that controls the flow of water through the Prevail Pool Pack.  
For pools up to 25,000 gallons  
Product # 01-02-0170

**Part 2: Prevail Pool Pack 70.5C**  
Prefilled with chlorine tablets and fits inside the Prevail Cycler (sold separately).  
Product # 01-04-7413
General Notes
These instructions contain information for the safe and proper operation of this Prevail Cycler. Observe the following principles:
• Ensure that everyone using this Prevail Cycler follows the instructions and safety precautions.
• Keep the instructions nearby and available for reference throughout the service life of this Prevail Cycler.

These instructions do not provide for every possible contingency that might be encountered in connection with installation, operation or maintenance of this equipment. Should further information be desired or should particular issues arise which are not covered sufficiently in this manual, contact King Technology at 800-222-0169.

Explanation of the signal words
Signal words, which depict the probability and severity of harm, are used in these instructions. They are defined as follows:

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DANGER</strong></td>
<td>Indicates an imminently hazardous situation which, if not avoided, will result in death, serious injury or major property damage.</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>Indicates a hazardous situation which, if not avoided, could result in serious injury, death, or major property damage.</td>
</tr>
<tr>
<td><strong>NOTICE</strong></td>
<td>Indicates special instructions that are important but not related to physical injury hazards.</td>
</tr>
</tbody>
</table>

Explanation of the safety pictographs
The following pictographs illustrate the type and source of a hazard.

<table>
<thead>
<tr>
<th>Pictograph</th>
<th>Type of Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️</td>
<td>Safety Alert/General Hazard</td>
</tr>
<tr>
<td>⚠️</td>
<td>Explosion Risk</td>
</tr>
<tr>
<td>⚠️</td>
<td>Hazardous Pressure</td>
</tr>
<tr>
<td>⚠️</td>
<td>Flammable Fire Hazard</td>
</tr>
</tbody>
</table>

Identification of warnings
Warnings are intended to help you recognize risks and avoid death, injury or property damage. This is how warnings are identified:

⚠️ Signal Word

**Pictographs**

**Description of danger.**
Consequences if ignored.

竪 The arrow signals a safety precaution to be taken to eliminate or reduce the risk.
Fire, explosion and high pressure hazards
To minimize the risk of serious injury, death or property damage while using the Prevail Cycler:

➤ Read, understand and follow all instructions and safety precautions in the manual, and on this Cycler and on any label for chemicals used with this Cycler including Prevail Pool Packs.

➤ Never use fast dissolving chlorine tablets, liquid bleach, or calcium hypochlorite in the Prevail Cycler.
➤ Never mix Trichlor chlorine tablets with Calcium Hypochlorite, or with any other form of concentrated chlorine or other chemicals.
➤ Never add any other types of chlorine, pH adjusters, shock treatments or algaeicides through the skimmer. These products should be added directly into the pool if required.
➤ Do not contaminate the Prevail Cycler or Prevail Pool Packs with dirt, organic matter, pool chemicals (such as calcium hypochlorite or pool shocks), fertilizers or other household chemicals. Contact between any of these substances and the Prevail Cycler and Prevail Pool Packs, will result in a chemical reaction with the generation of heat, liberation of hazardous gasses and fire or explosion.

➤ Use only Prevail Pool Packs in the Prevail Cycler. Never use bulk chemicals.
➤ To prevent the build up of gas pressure in the Prevail Cycler, be sure the pool return line valves are open – except when opening or servicing the unit.
➤ Do not inhale fumes from the Prevail Cycler or Prevail Pool Packs.
➤ Avoid sparks, smoking, or any open flame near Prevail Cycler or chemicals.
➤ Do not exceed maximum operating pressure of 50 psi or maximum temperature of 104°F.
➤ Do not remove the cap while under pressure. Always turn off pump and bleed off pressure before opening Prevail Cycler.
➤ Do not install automatic or fast shut off valves downstream of Prevail Cycler.
➤ Always install the Prevail Cycler AFTER a heater (if applicable) on the return line.
➤ Always install any additional sanitizing equipment AFTER and NEVER BEFORE the Prevail Cycler is installed on the return line.
➤ Do not permit children to use or climb on this product. This product must be positioned to prevent children from using it as a means of access to the pool.
➤ Always stand clear of the Prevail Cycler during pump start-up.
➤ Replace Prevail Cycler if you see signs of cracks, damage or degradation to the Cycler body or cap.

➤ Prior to pressurizing, check with your dealer to ensure your plumbing connections meet building codes.
➤ Failure to properly winterize your Prevail Cycler could result in freeze damage. (See page 15 for winterizing details.)
# Installation Tips to Ensure Proper Performance

Before installing, read all directions carefully and contact your dealer for installation support.

---

**WARNING**

- Do not exceed maximum operating pressure of 50 psi.
- Do not install automatic or fast shut off valves downstream of feeder.
- Always install the Prevail Cycler AFTER the heater (if applicable) on the return line.
- Always install any additional sanitizing equipment AFTER and NEVER BEFORE the Prevail Cycler is installed on the return line.

---

1) If using a multi-speed pump, run pump for at least 6 hours per day at high speed (at least 40 gpm).

If the pump will run on low speed 24 hours per day or less than 6 hours per day on high speed, you must bleed the air while the pump is on by unscrewing the back knob until water appears. Then screw the knob back in. Repeat this process each time the cap is removed for any reason.

---

2) Install Cycler with 4-8 psi back pressure.

Lower back pressures could result in under chlorination. Change the eyeball fittings in the return jets to a smaller size to increase back pressure. Contact King Technology at 800-222-0169 for a specially designed Cycler pressure gauge to determine back pressure at pool start-up.

---

3) Special installation Requirements:

**IMPORTANT:** Over chlorination or damage to the Prevail Cycler or other equipment could result if special installations A, B or C are not used in these situations.

- If water flow is higher than 80 gallons per minute (gpm), see diagram A.
- If an in-floor cleaner is included with pool, see diagram B, with two options. Preferred installation is Option 1 with two separate lines.
- If set-up is a pool and spa combination with common equipment, see diagram C.

---

**Questions?** Call Customer Service at 800-222-0169 Monday thru Friday, 8 am to 5 pm central standard time.

---

**A. With High Flow Rate (greater than 80 gpm) Install T-fittings exactly as shown.**

---

**B. With In-Floor Cleaner - TWO OPTIONS**

**OPTION 1 - A Two-Line Installation**

The best option is to have two lines. One line with pump, filter, heater and Prevail Cycler and a second line with a separate pump for the in-floor cleaning system (filter optional).

---

**OPTION 2 - A 3-Way Valve Installation**

3-way manual valve or 3-way motor valve plus controls

---

**C. Pool and Spillover Spa Combination**

---

**WARNING**

- Do not exceed maximum operating pressure of 50 psi.
- Do not install automatic or fast shut off valves downstream of feeder.
- Always install the Prevail Cycler AFTER the heater (if applicable) on the return line.
- Always install any additional sanitizing equipment AFTER and NEVER BEFORE the Prevail Cycler is installed on the return line.
Filter Flex-Hose Installation

**TOOLS NEEDED**
- Screwdriver
- Pipe Wrench

**MATERIALS NEEDED**
- Pipe Thread Tape or Sealant
- One 6" x 1 ½" TBE PVC Nipple
- One Hose Adapter 1½" x 1½" x 1¼"
- One Section of 1½" or 1¼" Flex Hose (provided with filter)
- One Hose Clamp

**RECOMMENDED**
4-8 psi Back Pressure
To avoid over or under chlorination, replace eyeball fittings in the return jets to a smaller or larger size to adjust back pressure. For best results use King Technology’s pressure gauge, order part number 01-22-4000.

1. Screw one end of nipple into the filter return.
   Hand tighten. Finish tightening by turning 1 to 2 revolutions with a pipe wrench.
   **DO NOT OVER TIGHTEN.**

2. Apply pipe thread tape or sealant to each threaded end of nipple.

3. Screw either side of Prevail Cycler on to open nipple end until upright and secure.

4. Apply pipe thread tape or sealant to threaded end of hose adapter.

5. Screw adapter into the other side of Prevail Cycler.
   Hand tighten. Finish tightening by turning 1 to 2 revolutions with a pipe wrench.
   **DO NOT OVER TIGHTEN.**

6. Attach return section of hose to the adapter with clamp. Tighten clamp with screwdriver.

7. To prevent damage to heaters or filters, see your dealer about installing a corrosion resistant check valve which will reduce the back flow of chlorine gas when the Prevail Cycler is turned off.
Base Flex-Hose Installation

The Prevail Cycler should always be installed between the filter and pool (or between heater and pool if applicable). Never install Prevail Cycler before the heater or damage to the heater could occur.

**TOOLS NEEDED**
- Screwdriver
- Pipe Wrench

**MATERIALS NEEDED**
- Pipe Thread Tape or Sealant
- Two Hose Adapters 1½” X 1½” X 1¼”
- Two Sections of 1½” or 1¼” Flex Hose (one provided with filter)
- Two Hose Clamps

**RECOMMENDED**
- 4-8 psi Back Pressure
  To avoid over or under chlorination, replace eyeball fittings in the return jets to a smaller or larger size to adjust back pressure. For best results use King Technology’s pressure gauge, order part number 01-22-4000.

1. Apply pipe thread tape or sealant to the threaded end of both hose adapters.

2. Screw adapters into each end of Prevail Cycler. Hand tighten. Finish tightening by turning 1 to 2 revolutions with a pipe wrench. **DO NOT OVER TIGHTEN.**

3. Attach the filter section of flex hose to one hose adapter and the return section of flex hose to the other hose adapter with clamps and tighten with screwdriver. Bi-flow valve design allows water flow in either direction.

4. To prevent damage to heaters or filters, see your dealer about installing a **corrosion resistant check valve** which will reduce the back flow of chlorine gas when the Cycler is turned off.

5. For better stability, Prevail Cycler may be mounted on a treated wood base using **Phillips pan head screws**, one in front and two in back. If you have questions about stability, please contact your dealer or King Technology.
Hard-Plumbed Installation

The Prevail Cycler should always be installed between the filter and pool (or between heater and pool if applicable). Never install Prevail Cycler before the heater or damage to the heater could occur.

Do NOT install Prevail Cycler off-line.

Bi-flow valve design allows installation in either flow direction.

1. Screw adapters into each end of Prevail Cycler following directions for a male adapter or a female adapter. Hand tighten. Finish tightening by turning 1 to 2 revolutions with a pipe wrench. **DO NOT OVER TIGHTEN.**

1a. If using **male adapters**, apply pipe thread tape or sealant to the threaded end of each adapter.

1b. If using **female adapters**, apply pipe thread tape or sealant to the threaded end of each Cycler port.

2. Measure the distance between the outside adapters and cut out a section of pipe 3” less than that dimension.

2. Allow a minimum of 12” above and on each side of Prevail Cycler to ensure room for replacement of Prevail Pool Pack.

3. Following primer directions, brush primer on the inside of the adapters and to ends of pipe. Repeat this process with PVC cement following directions on that product.

4. Insert PVC pipe into adapters with a twisting action. Hold in place 5 to 10 seconds to bond.

5. To prevent damage to heaters or filters, see your dealer about installing a **corrosion resistant check valve** which will reduce the back flow of chlorine gas when the Cycler is turned off.

**TOOLS NEEDED**
- Pipe Wrench
- Hacksaw
- Tape
- Measure

**MATERIALS NEEDED**
- Pipe Thread Tape or Sealant and Primer and PVC Cement
- Pipe Thread Tape
- or Sealant and Primer
- and PVC Cement
- PVC Cement
- PVC Cement
- PVC Cement

**SECURE CYCLER**

For better stability, Prevail Cycler may be mounted on a treated wood base using **Phillips pan head screws**, one in front and two in back. If you have questions about stability, please contact your dealer or King Technology.
Step 1: Preparing the Pool

1. Make sure the pool has adequate circulation. The total volume of pool water must completely circulate through the pump and filter at least 1 to 2 times per day. This usually requires 8 to 12 hours of circulation. Check with your dealer for the proper circulation time for your pool.

2. Check the pool’s filter gauge often and periodically clean filter per the manufacturer’s directions. A dirty filter will slow the flow of water which could hamper proper circulation.

3. Check the Water Hardness of your fill water before adding to the pool. If calcium content is higher than 400 ppm, find a soft water source to fill your pool instead; otherwise water balance will be very difficult.

4. Check for metals in the pool such as iron or copper. Before attempting water balance, these should be removed. See your dealer for a metal out or sequesterant and follow the label directions carefully.

5. Before beginning with any pool care program, you must first balance your pool water. Take a water sample to your local pool professional (or use a complete test kit) to test for the important Water Balance Guidelines.

   IMPORTANT: Always follow printed instructions on the balancing chemical packages. Add balancing chemicals in small increments one at a time with circulation running. For best results, wait 8-12 hours before testing again and adding any additional balancing chemicals.

Water Balance Guidelines

- pH: 7.2 – 7.8
- Total Alkalinity: 80 – 120 ppm
- Calcium Hardness: 200 – 400 ppm
- Total Dissolved Solids: <1500 ppm
- Stabilizer: 20 – 80 ppm
- Free Chlorine: 0.5 – 1.0 ppm
Continue... Step 1: Preparing the Pool

For best results in achieving water balance, follow steps 5a through 5e in order.

5a. Take a water sample from the pool and dip a Test Strip into it.

5b. Look at the Total Alkalinity reading first. Adjustments should be made to bring the Total Alkalinity in the range of 80 – 120 ppm prior to making any adjustments to pH even if it throws pH off further.

5c. After Total Alkalinity is in range, test for pH. It should be between 7.2 and 7.8. If higher or lower, add a pH adjuster.

5d. Then test your Water Hardness again. If lower than 200 ppm, add Calcium Increaser. Always maintain 200-400 ppm.

5e. Lastly, test for stabilizer or conditioner levels. Add conditioner if the level is below 20 ppm. This will prevent chlorine burn off. If stabilizer level is above 80 ppm, partially drain water and re-fill.

6. Initially shock the pool with chlorine shock only to rid the water of contaminants and establish a chlorine residual. Always follow the manufacturer’s directions carefully. See the DANGER box below for important guidance on shocking.

DANGER
- Never add any other types of chlorine, pH adjusters, shock treatments or algaecides through the skimmer. These products should be added directly into the pool if required.
- Never use fast dissolving chlorine tablets, liquid bleach, or calcium hypochlorite in the Prevail Cycler.
Step 2: Putting the System to Work

**DANGER**
Never use fast dissolving chlorine tablets, liquid bleach, or calcium hypochlorite in the Prevail Cycler.

**WARNING**
Avoid sparks, smoking, or any open flame near Prevail Cycler or chemicals.

**IMPORTANT:** Read the label on the Prevail Pool Pack carefully before using.

1. Turn off pump. Turn dial to 0. This reduces the flow of water into the unit when the cap is open.

2. Open the cap. Stand back to allow any chlorine fumes to dissipate.

3. Cut handle from Prevail Pool Pac using a PVC cutting tool (KEEP OUT OF REACH OF CHILDREN)
   - 3A. Find the indent in the plastic.
   - 3B. Place curved section of tool around the narrow end of one pack tower and line up blade on indent
   - 3C. Squeeze the handles together. Repeat for other side.
   - 3D. Make sure the blade comes straight across on the indent line for a clean cut.
   - 3E. If openings are pinched together, open with fingers or re-cut closer to the colored screens inside Prevail Pool Pack. Leave at least 1/4” of plastic to fit into Prevail Cycler base.

4. Invert Prevail Pool Pack and shake slightly until chlorine tablets fall into tower areas.

5. Insert Prevail Pool Pack into Prevail Cycler, lining up the openings in Prevail Pool Pack with keys in Prevail Cycler.
   - **NOTE:** Openings are a different shape than keys.

6. Replace cap by hand only. DO NOT OVERTIGHTEN.

7. The Prevail Pool Packs are made of HDPE plastic. Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Rinse thoroughly before recycling or discarding in trash.

8. Mark calendar ahead for the approximate replacement times for the Prevail Pool Pack.
Step 3: Setting Control Dial

This system is designed to work effectively with a variety of pool equipment as long as the following procedures are followed.

1. Set control dial on Prevail Cycler by matching up the parameters of your pool on the chart below. THIS IS A STARTING POINT ONLY and may need to be adjusted to fit your individual pool needs. See #2 below for adjusting directions.

   **IMPORTANT:** If using a multi-speed pump, pump-run times of at least 6 hours per day at high speed are recommended for proper performance. If running the pump at low speed only or on high speed less than 6 hours, please follow the 24 hour low-speed directions below.

<table>
<thead>
<tr>
<th>POOL SIZE</th>
<th>Gallons</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8 HOUR PUMP RUN TIME</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2 hp</td>
</tr>
<tr>
<td>7,000 (18')</td>
<td>4.5</td>
<td>4.0</td>
</tr>
<tr>
<td>9,000 (21')</td>
<td>5.0</td>
<td>4.5</td>
</tr>
<tr>
<td>12,000 (24')</td>
<td>5.5</td>
<td>5.0</td>
</tr>
<tr>
<td>18,000</td>
<td>NR</td>
<td>5.5</td>
</tr>
<tr>
<td>20,000</td>
<td>NR</td>
<td>NR</td>
</tr>
<tr>
<td>25,000</td>
<td>NR</td>
<td>NR</td>
</tr>
</tbody>
</table>

^ Bypass installation recommended. See “Installation Tips” on page 6. NR - This pump size is not recommended for this size pool.

24 HOUR, LOW-SPEED PUMP RUN TIME

In order to ensure proper performance when running the pump on low speed for 24 hours per day or high speed less than 6 hours per day, bleed the air while the pump is on by unscrewing the back knob until water appears. Then screw the knob back in. Repeat this process each time the cap is removed for any reason. Set the control dial at 6 and follow the adjustment directions in Step 2 to determine the correct setting for your pool.

**EXAMPLE**

<table>
<thead>
<tr>
<th>POOL SIZE</th>
<th>Gallons</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>12 HOUR PUMP RUN TIME</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 hp</td>
</tr>
<tr>
<td>7,000 (18')</td>
<td>2.5</td>
<td>2.0</td>
</tr>
<tr>
<td>9,000 (21')</td>
<td>3.0</td>
<td>2.5</td>
</tr>
<tr>
<td>12,000 (24')</td>
<td>3.5</td>
<td>3.0</td>
</tr>
<tr>
<td>18,000</td>
<td>4.0</td>
<td>3.5</td>
</tr>
<tr>
<td>20,000</td>
<td>4.5</td>
<td>4.0</td>
</tr>
<tr>
<td>25,000</td>
<td>5.0</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Find your starting dial setting by matching up the parameters of your pool on the above chart. An above ground pool with approximately 12,000 gallons, with a 1 horsepower pump running 12 hours a day, would require a starting setting of 2.5.

2. For the first week, test the pool water daily for free chlorine to ensure correct dial setting. Continue to test weekly throughout the season.

   **IMPORTANT:** Control dial settings in excess of these recommendations could result in excess trichlor levels being discharged into the pool. This can result in bleaching or discoloration of areas around the pool inlet or in some cases bleaching or discoloration of the entire pool liner or paint. In addition, excess trichlor in the pool can create health hazards to bathers.
Step 4: Routine Pool Care

1. Run filtration system enough hours to circulate all water 1 to 2 times per day. More than that could result in over chlorination.

WARNING
To prevent the build up of gas pressure in the Prevail Cycler, be sure the pool return line valves are open except when opening or servicing the unit.

2. Regularly test water to maintain pH and Total Alkalinity.

NOTE: Water balance is affected by bather load, chemical usage, evaporation and the makeup of source water, so maintaining water balance regularly is important.

3. Maintain 1.0 - 3.0 ppm free chlorine level at all times.

DANGER
Do not contaminate the Prevail Cycler or Prevail Pool Packs with dirt, organic matter, pool chemicals (such as calcium hypochlorite or pool shocks), fertilizers or other household chemicals. Contact between any of these substances and the Prevail Cycler or Prevail Pool Packs, will result in a chemical reaction with the generation of heat, liberation of hazardous gasses and fire or explosion.

4. Shock the pool every week or as needed with a chlorine or a non-chlorine shock.

DANGER
• Never add any other types of chlorine, pH adjusters, shock treatments or algaecides through the skimmer. These products should be added directly into the pool if required.
• Never use fast dissolving chlorine tablets, liquid bleach, or calcium hypochlorite in the Prevail Cycler.
Winterizing

1. **Turn pump off.**

2. **Turn dial to Setting 0.**

3. **Remove cap.**

4. **Unscrew knob from the front of Prevail Cycler. Allow all water to drain.**

5. **Remove Prevail Pool Pack**

   If Pack still contains chlorine, wrap in plastic bag and store in shed or cool, dry, well-ventilated location away from children, pets, cars, motorcycles or anything metal that can rust, pit, etc.

   If empty, rinse and recycle.

**WARNING**

Avoid sparks, smoking, or any open flame near Prevail Cycler or chemicals.

6. **Replace the cap and knobs loosely.**
# Troubleshooting

For help in troubleshooting call King Technology at 800-222-0169.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. What do I do if the water looks cloudy?</strong></td>
<td>1. Make sure your filtration system is working properly (i.e. clean filter, skimmer and pump basket).&lt;br&gt;2. Make sure circulation time is adequate – increase pump time if not.&lt;br&gt;3. Make sure the pool is properly balanced (see page 10).&lt;br&gt;4. Shock the water to eliminate build up of any organic matter.&lt;br&gt;5. Make sure pool has a free chlorine reading of 1.0 to 3.0 ppm.&lt;br&gt;6. Check with your dealer for more information.</td>
</tr>
<tr>
<td><strong>2. What do I do if the water turns color?</strong></td>
<td>1. Algae may be trying to form – shock the pool, increase circulation time if needed and clean the filter.&lt;br&gt;2. Metals in the fill water may have been oxidized. Have the pool tested. See pool dealer if metal control product is required.&lt;br&gt;3. Check with your dealer for more information.</td>
</tr>
<tr>
<td><strong>3. What do I do if algae forms in or on my pool?</strong></td>
<td>1. Use an algaecide per the directions on the bottle and brush the sides of the pool often.&lt;br&gt;2. Clean the filter and shock the pool with chlorine daily until water clarity returns.&lt;br&gt;3. Check with your dealer for more information.</td>
</tr>
<tr>
<td><strong>4. What do I do if I am under chlorinating with the Prevail Pool Pack?</strong></td>
<td>1. If you are unable to maintain at least 1.0 ppm, first make sure there are chlorine tablets in the tower areas of the Prevail Pool Pack and it is installed properly. If a correction was made, test the water in 24 hours.&lt;br&gt;2. If still low, turn the dial up one setting and test the water again in 24 hours. Continue raising the setting by one increment each day until the proper reading is achieved.&lt;br&gt;3. Shock the pool if the reading has been lower than 1.0 ppm for more than one day.&lt;br&gt;4. Make sure pump run time is at least 6 hours on high speed (40 gpm or higher) or if not, bleed the air from the back knob each time the cap is opened.&lt;br&gt;5. Contact your dealer to have your back pressure tested. If under 4 psi, consider a smaller eyeball fitting in the return jet.&lt;br&gt;6. Check for a suction side leak by looking for air bubbles in your pump basket or at the return jet. Contact dealer for help in correcting this situation.&lt;br&gt;7. Contact King Technology’s Customer Service Department at 800-222-0169.</td>
</tr>
<tr>
<td><strong>5. What do I do if I am over chlorinating with the Prevail Pool Pack?</strong></td>
<td>1. If the chlorine reading is over 3.0 ppm, remove the Prevail Pool Pack from the Prevail Cycler and test the water daily until the reading is down to 1.0 ppm.&lt;br&gt;2. Reinsert the Prevail Pool Pack, lower the dial one setting and test the water again in 24 hours. If the reading has risen, lower the dial one setting again. Continue this process until proper reading is achieved.&lt;br&gt;3. If over-chlorinating at the lowest possible setting, consider decreasing the circulation time. Depending on your pump size, you may be circulating the water more than is necessary.&lt;br&gt;4. Contact your dealer to have your back pressure tested. If over 8 psi consider a larger eye-ball fitting in the return jet.&lt;br&gt;5. Check to see if the pressure relief valve is loose or missing and replace. It is a clear plastic piece approximately 1” long installed inside near the base. If loose or missing, it can provide another avenue for water to reach the chlorine.&lt;br&gt;6. Contact King Technology’s Customer Service Department at 800-222-0169.</td>
</tr>
</tbody>
</table>
### Parts List

#### Included with Prevail Cycler 170

<table>
<thead>
<tr>
<th>REF. #</th>
<th>DESCRIPTION</th>
<th>QTY. INCLUDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 &amp; 2</td>
<td>Cap w/O-Ring</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Body</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Pressure Relief Valve</td>
<td>1</td>
</tr>
<tr>
<td>5, 6, 7, 8</td>
<td>Control Dial with O-Rings, Locking Pin and Number Plate</td>
<td>1</td>
</tr>
<tr>
<td>9 &amp; 10</td>
<td>Knob with O-Ring</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>Mounting Base</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>Silicone Lubricant</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Replacement Parts for Prevail 170

<table>
<thead>
<tr>
<th>REF. #</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 &amp; 2</td>
<td>01-22-1410</td>
<td>Cap w/O-Ring</td>
</tr>
<tr>
<td>2</td>
<td>01-22-1926</td>
<td>Cap O-Ring</td>
</tr>
<tr>
<td>4</td>
<td>01-22-9486</td>
<td>Pressure Relief Valve</td>
</tr>
<tr>
<td>5, 6, 7, 8</td>
<td>01-22-1446</td>
<td>Control Dial with O-Rings</td>
</tr>
<tr>
<td>9 &amp; 10</td>
<td>01-22-1456</td>
<td>Locking Pin and Number Plate</td>
</tr>
<tr>
<td>11</td>
<td>01-22-1480</td>
<td>Mounting Base</td>
</tr>
<tr>
<td>12</td>
<td>01-22-9970</td>
<td>Silicone Lubricant</td>
</tr>
<tr>
<td>13</td>
<td>01-22-1710</td>
<td>Nipple Kit</td>
</tr>
<tr>
<td>14</td>
<td>01-22-4000</td>
<td>Pressure Gauge</td>
</tr>
<tr>
<td>15</td>
<td>01-22-1470</td>
<td>25k Tune-Up Kit</td>
</tr>
</tbody>
</table>

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Troubleshoot
Replacing Cycler Knobs

To replace, simply unscrew old knob and replace with the new one.

Replacing the Control Dial O-Rings

1. **Center of locking pin**
   In the back of the Prevail Cycler depress center of locking pin with a finger and pull pin out of dial.

2. **Turn control dial back and forth as you pull it out of the housing.**

3. **Replace both O-rings. Apply silicone lubricant that came with your Prevail Cycler on O-rings.**

4. **Carefully insert control dial back into housing.**

5. **Replace locking pin by pushing it through the slots on the dial until it locks into place.**

Replacing Cap O-Ring

1. **Remove old O-ring.**

2. **Place new O-ring in bottom half of groove.**

3. **Place your thumbs on each side of the cap over the O-ring in the groove.**

4. **Roll your thumbs back and forth over the O-ring while pushing upward until the O-ring falls into the top of the groove.**

   **Lubricate O-ring often with silicone lubricant that came with your Prevail Cycler. DO NOT USE petroleum based lubricants.**

Replacing Cycler Knobs

To replace, simply unscrew old knob and replace with the new one.
Limited One-Year Warranty

King Technology, Inc. will warrant this unit with a complete replacement for the original purchaser, should it prove defective by reason of improper workmanship and/or material for a period of one (1) year from the date of original purchase/installation. This warranty covers body, cap and control dial excluding O-rings. King Technology holds the option of replacing any defective part without charge if it is determined to be all that is needed to correct any situation. Parts used for replacement, with the exception of O-rings, are warranted for the remainder of the original warranty.

1. To obtain warranty service, you must deliver product to King Technology or its nearest authorized dealer. Shipping expenses are the purchaser’s responsibility. The name of the nearest authorized dealer can be obtained at frogproducts/find-a-dealer or by calling King Technology at 1-800-222-0169. Proof of purchase is required when requesting warranty service. Purchaser must present the sales receipt or other document which establishes proof of purchase.

2. This warranty does not cover defects caused by: modification, alteration, repair or service of the product contrary to the accompanying instructions; physical abuse to or misuse of the product or operation or installation in a manner contrary to the accompanying instructions. This warranty also excludes all costs arising from the installation, adjustment, removal or replacement of defective units or parts. This warranty also excludes any and all claims arising out of the chemicals used in the product or their characteristics.

3. Any express warranty not provided for herein, and any remedy for breach of warranty or breach of contract which, but for this provision, might arise by implication or operation of law, is hereby expressly excluded and disclaimed. The implied warranties of merchantability and of fitness for any particular purpose are expressly limited to a term of one year. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

4. Under no circumstance shall King Technology be liable to purchaser or any other person for any damage or loss incurred because of any chemicals used in the product or their physical characteristics, or interruption of service of the product, or any special, incidental or consequential damages or losses, whether arising out of breach of warranty, breach of contract or otherwise. Some states do not allow the exclusion or limitation of incidental consequential damages, so the above limitation or exclusion may not apply to you.

5. Misuse or failure to use the proper Prevail Pool Pack may cause damage to equipment or personal injury. All warranty null and void if this product is not used with the recommended Prevail Pool Pack.

Register your warranty at kingtechnology.com/product-registration.

Made in U.S.A.

Patents: kingtechnology.com/IP