SAVE THIS INSTRUCTION MANUAL

Use only High Rate Sand No. 20 Silica Sand (.45mm - .55mm)
- **WARNING** - Read and follow all instructions in this owner’s manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

- **WARNING** – Suction Entrapment Hazard.

  Suction in suction outlets and/or suction outlet covers which are, damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

  - **Hair Entrapment**- Hair can become entangled in suction outlet cover.
  
  - **Limb Entrapment**- A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

  - **Body Suction Entrapment**- A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

  - **Evisceration/ Disembowelment** - A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is, damaged, broken, cracked, missing, or not securely attached can result in evisceration/ disembowelment.

  - **Mechanical Entrapment**- There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

- **WARNING** – To Reduce the risk of Entrapment Hazards:

  - When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from near point to near point.
  
  - Dual suction fittings shall be placed in such locations and distances to avoid “dual blockage” by a user.
  
  - Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
  
  - The maximum system flow rate shall not exceed the flow rating as listed on Table 2.
  
  - Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
  
  - Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
  
  - In addition two or more suction outlets per pump installed in accordance with latest NSPI, IAF Standards and CPSC guidelines, follow all National, State, and Local codes applicable.
  
  - Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.

- **WARNING** – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.

- **WARNING** – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increase potential for suction entrapment as described above.

- **WARNING** – Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every ten years or if found to be damaged, broken, cracked, missing, or not securely attached.

- **CAUTION** – Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as means of access to the pool by young children.

- **WARNING** – Never operate or test the circulation system at more than 40 PSI.

- **CAUTION** – All electrical wiring MUST be performed by a qualified professional, and MUST conform to local codes and regulations.

- **WARNING** – Never change the filter control valve position while the pump is running.

- **WARNING** – Hazardous Pressure. Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.

- **WARNING** – Separation Hazard. Failure to follow safety and operation instructions could result in violent separation of pump and/or filter components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, the filter’s manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body.

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**WWW.HAYWARDPOOL.COM** USE ONLY HAYWARD GENUINE REPLACEMENT PARTS
WARNING – Electrical  Ground motor before connecting to electrical power supply. Failure to ground pump motor can cause serious or fatal electrical shock hazard.

WARNING – Do NOT ground to a gas supply line.

WARNING – To avoid dangerous or fatal electrical shock, turn OFF power to motor before working on electrical connections.

WARNING – Failure to bond pump to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond pump. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Your Hayward Pro Series high-rate sand filter is a high performance, totally corrosion-proof filter that blends superior flow characteristics and features with ease of operation. It represents the very latest in high-rate sand filter technology. It is virtually foolproof in design and operation and when installed, operated and maintained according to instructions, your filter will produce clear, sparkling water with only the least attention and care.

HOW IT WORKS

Your filter uses special filter sand to remove dirt particles from the water. Filter sand is loaded into the filter tank and functions as the permanent dirt removing media. The pool water, which contains suspended dirt particles, is pumped through your piping system and is automatically directed by the patented filter control valve to the top of the filter tank. As the pool water is pumped through the filter sand, dirt particles are trapped by the sand bed, and filtered out. The cleaned pool water is returned from the bottom of the filter tank, through the control valve and back to the pool through the piping system. This entire sequence is continuous and automatic and provides for total recirculation of pool water through your filter and piping system.

After a period of time, the accumulated dirt in the filter causes a resistance to flow, and the flow diminishes. This means it is time to clean (backwash) your filter. With the control valve in the backwash position, the water flow is automatically reversed through the filter so that it is directed to the bottom of the tank, up through the sand, flushing the previously trapped dirt and debris out the waste line. Once the filter is backwashed (cleaned) of dirt, the control valve is manually resequenced to Rinse, and then Filter, to resume normal filtering.

INSTALLATION

Only simple tools (screwdriver and wrenches), plus Teflon tape manufactured for plastic adapters, are required to install and/or service the filter.

1. The filter system should be installed, not more than 6 feet above pool water level, on a level concrete slab, very firm ground, or equivalent, as recommended by your pool dealer. Position the filter so that the piping connections, control valve and winter drain are convenient and accessible for operation, service and winterizing.

2. Assemble the filter control valve to filter. Align the two (2) valve pipe connections, with O-rings in place, with the two openings in the side of the filter tank and press in firmly. Secure the assembly to the tank connections with the two bulkhead locknuts. 

Do not overtighten.

4. Loading sand media. Filter sand media is loaded through the top opening of the filter.

a. Remove the top diffuser from the internal diffuser elbow pipe and place flexible, automatic air relief tube to the side, out of the way, inside the tank.

b. Cap the internal diffuser elbow pipe with the sand shield provided to prevent sand from entering it.

c. It is good practice to fill tank approximately 1/2 way with water to provide a cushioning effect when the filter sand is poured in. This helps protect the under-drain laterals from excessive shock. (Be sure the drain cap is securely in place on drain pipe.)

Note: Check to confirm all laterals are in the down position before loading with sand. (See Figure A on Page 5.)

d. Carefully pour in correct amount and grade of filter sand, as specified. Sand surface should be leveled and should come to about 6 “ from the top of the filter tank. Use no more than the recommended amount of sand.
e. Remove the sand shield from internal diffuser elbow pipe.
f. Replace diffuser on internal diffuser elbow pipe, positioning automatic air relief tube through the hole provided in the diffuser.
g. Wipe filter flange clean.
h. Insert top closure dome (with flange O-ring in place) into the tank neck. Place clamp around dome flange and tank flange and tighten with screwdriver, tapping around clamp with screwdriver handle to help seat flange clamp.

**Do not overtighten.**

5. Connect pump to control valve opening marked PUMP according to instructions. (For Slide Valve the pump must be connected to the middle Port B.) Make return to pool pipe connection to control valve opening marked RETURN and (Port E on the Slide Valve) complete other necessary plumbing connections, suction lines to pump, waste, etc.

6. Make electrical connections to pump per pump instructions.

7. To prevent water leakage, be sure drain cap is securely in place and all pipe connections are tight.

**INITIAL START-UP OF FILTER**

1. Be sure correct amount of filter sand media is in tank and that all connections have been made and are secure.

**IMPORTANT:** To prevent unnecessary strain on piping system and valving, always shut off pump before switching Filter Control Valve positions.

2. Depress Vari-Flo control valve handle and rotate to BACKWASH* position. (To prevent damage to control valve seat, always depress handle before turning.) (For the Slide Valve, the Handle needs to be fully down and LOCKED by rotating clockwise.)

3. Prime and start pump according to pump instructions. (be sure all suction and return lines are open), allowing the filter tank to fill with water.

**WARNING** – All suction and discharge valves must be open when starting the system. Failure to do so could cause severe personal injury and/or property damage.

4. Once water flow is steady out the waste line, run the pump for at least 2 minutes. This initial backwashing of the filter is recommended to remove any impurities or fine sand particles in the sand media.

5. Turn pump off and set Slide valve to FILTER (Counterclockwise turn and full UP position) or Vari-Flo valve to RINSE position. Start pump and operate until water in sight glass is clear—about 1/2 to 1 minute. Turn pump off, set valve to FILTER position and restart pump. Your filter is now operating in the normal filter mode, filtering particles from the pool water.

6. Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tighten connections, bolts, nuts, as required.

7. Note the initial pressure gauge reading when the filter is clean. (It will vary from pool to pool depending upon the pump and general piping system.) As the filter removes dirt and impurities from the pool water, the accumulation in the filter will cause the pressure to rise and flow to diminish. When the pressure gauge reading is 6-8 PSI (0.41-0.55 BAR) higher than the initial "clean" pressure you noted, it is time to backwash (clean) the filter (see BACKWASH under Filter Control Valve Functions).

**NOTE:** During initial clean-up of the pool water it may be necessary to backwash frequently due to the unusually heavy initial dirt load in the water.

To prevent damage to the pump and filter and for proper operation of the system, clean pump strainer and skimmer baskets regularly.

**FILTER CONTROL VALVE FUNCTIONS**

FILTER—Set valve to FILTER for normal filtering. Also use for regular vacuuming. (Slide Valve Handle UP and Open)

BACKWASH—For cleaning filter. When filter pressure gauge rises 8-10PSI (0.55-0.69 BAR) above start-up (clean pressure): Stop the pump, set valve to BACKWASH. (Slide Valve Down and Locked) Start pump and backwash approximately 2 minutes or less depending on dirt accumulation until water in sight glass is clear. Proceed to RINSE.

RINSE—After backwashing, with pump off, set valve to RINSE. Start pump and operate for about 1/2 to 1 minute. This ensures that all dirty water from backwashing is rinsed out to the filter to waste, preventing possible return to the pool. Stop pump, set valve to FILTER, and start pump for normal filtering.

WASTE—To bypass filter for draining or lowering water level and for vacuuming heavy debris directly to waste.

RECIRCULATE—Water is recirculated through the pool system, bypassing the filter.

CLOSED—Shuts off flow from pump to filter.

VACUUMING—Vacuuming can be performed directly into the filter. When vacuuming heavy debris loads, set valve to WASTE position to bypass the filter and vacuum directly out to waste.

**WINTERIZING**

1. Completely drain tank by unscrewing drain cap at base of filter tank. Leave cap off during winter.

2. Depress Vari-Flo control valve handle and rotate so as to set pointer on valve top between any two positions. (For Slide Valve leave valve between Positions.) This will allow water to drain from the valve. Leave valve in this "inactive" position.

3. Drain and winterize pump according to pump instructions.

**SERVICE & REPAIRS**

Consult your local authorized Hayward dealer or service center. No returns may be made directly to the factory without the expressed authorization of Hayward Pool Products, Inc.

**PLEASE REALIZE:**

Pure, clear swimming pool water is a combination of two factors—adequate filtration and proper water chemistry balance. One without the other will not give the clean water you desire. Your filter system is designed for continuous operation. However, this is not necessary for most swimming pools. You can determine your filter operation schedule based on your pool size and usage. Be sure to operate your filtration system long enough each day to obtain at least one complete turnover of your pool water.

To properly sanitize your pool, maintain a free chlorine level of 1 to 3 ppm and a pH range of 7.2 to 7.6. Insufficient chlorine or an out of balance pH level will permit algae and bacteria to grow in your pool and make it difficult for your filter to properly clean the pool water.

*NOTE:* For new concrete or gunite pools, or where there is a large amount of plaster dust or debris—start filter in FILTER position (not BACKWASH) to prevent clogging of underdrain laterals.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>EFFECTIVE FILTRATION AREA</th>
<th>MAXIMUM WORKING PRESSURE</th>
<th>REQUIRED CLEARANCE</th>
<th>MEDIA REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FT²</td>
<td>M²</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>S311SX</td>
<td>5.0</td>
<td>.46</td>
<td>50</td>
<td>3.45</td>
</tr>
<tr>
<td>S360SX</td>
<td>6.7</td>
<td>.62</td>
<td>50</td>
<td>3.45</td>
</tr>
</tbody>
</table>

**TABLE 1**

**PARTS MODELS:**

S311SX, S311SXV, S360SX

<table>
<thead>
<tr>
<th>REF NO</th>
<th>PART NO.</th>
<th>DESCRIPTION NO.</th>
<th>NO. REQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SX200G</td>
<td>Manual Air Relief Cap</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>SX200Z5</td>
<td>O-RING, 13/16&quot; O.D.</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>SX244K</td>
<td>Top Closure Dome</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>GMX600F</td>
<td>Valve/tank o-ring</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>SX310N</td>
<td>Flange Clamp</td>
<td>1</td>
</tr>
<tr>
<td>6a</td>
<td>SX311AZFW</td>
<td>Filter Tank w/Base (S311SX)</td>
<td>1</td>
</tr>
<tr>
<td>6b</td>
<td>SX360AZFW</td>
<td>Filter Tank w/Base (S360SX)</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>SX311G</td>
<td>Label Plate with Label</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>SX311Z1</td>
<td>Label Plate Screws</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>SX244G</td>
<td>Top Diffuser</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>SX311CD1FW</td>
<td>Top Elbow Assembly (S311SX)</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>SX311CD2FW</td>
<td>Bottom Elbow Assy (S311SX)</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>SX360CD</td>
<td>Elbow Assy (S360SX) Prior 2000</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>SX360CDFW</td>
<td>Elbow Assy (S360SX)</td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>SX310HA</td>
<td>Lateral (Screw in) Prior 2005</td>
<td>10</td>
</tr>
<tr>
<td>15</td>
<td>SX310HN</td>
<td>Lateral (One piece)</td>
<td>10</td>
</tr>
<tr>
<td>16</td>
<td>SX311DA</td>
<td>Lateral Holder Assy (S311SX)</td>
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</tr>
<tr>
<td>17</td>
<td>SX242MA3</td>
<td>Lateral Holder Assy (S360SX)</td>
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<tr>
<td>18</td>
<td>CX1100Z4</td>
<td>Plastic Air Tube</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>SX200Z2</td>
<td>Air Tube Lock Screw</td>
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</tr>
<tr>
<td>20</td>
<td>SX108HG</td>
<td>Drain Cap Kit (Round)</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>SX180LA</td>
<td>Drain Cap Assy</td>
<td>1</td>
</tr>
<tr>
<td>22</td>
<td>SX310J</td>
<td>Filter Stand Support</td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td>SX360Z1</td>
<td>O-Ring</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>SX360E</td>
<td>O-Ring Spacer</td>
<td>2</td>
</tr>
<tr>
<td>25</td>
<td>SX244P</td>
<td>Bulkhead Fitting (S311SX)</td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td>SX311F</td>
<td>Bulkhead Fitting (S360SX)</td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td>SP710X62</td>
<td>1 ½&quot; Vari-Flo Control Valve Assembly with Gauge</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>SP715X62</td>
<td>2&quot; Vari-Flo Control Valve Assembly with Gauge</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td>SP0410X602S</td>
<td>Slide Valve Assembly</td>
<td>1</td>
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<tr>
<td>30</td>
<td>SX200Z4</td>
<td>O-Ring</td>
<td>2</td>
</tr>
<tr>
<td>31</td>
<td>ECX270861</td>
<td>Pressure Gauge</td>
<td>1</td>
</tr>
<tr>
<td>32</td>
<td>DE2400S</td>
<td>Relief Valve/Gauge Adapter Assy</td>
<td>1</td>
</tr>
<tr>
<td>33</td>
<td>DE2400Z3A</td>
<td>O-Ring for Relief valve stem (Set of 3)</td>
<td>1</td>
</tr>
</tbody>
</table>

**FIGURE B**

**FIGURE A**

**DIAGRAM A**

WWW.HAYWARDPOOL.COM USE ONLY HAYWARD GENUINE REPLACEMENT PARTS
### Maximum Recommended System Flow Rate by Pipe Size

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>20</td>
<td>1 1/2”</td>
<td>45</td>
<td>2 1/2”</td>
<td>110</td>
</tr>
<tr>
<td>[32]</td>
<td>[75]</td>
<td>[50]</td>
<td>[170]</td>
<td>[75]</td>
<td>[415]</td>
</tr>
<tr>
<td>1 3/4”</td>
<td>30</td>
<td>2”</td>
<td>80</td>
<td>3”</td>
<td>160</td>
</tr>
<tr>
<td>[40]</td>
<td>[110]</td>
<td>[63]</td>
<td>[300]</td>
<td>[90]</td>
<td>[600]</td>
</tr>
</tbody>
</table>

**TABLE 2**

### Problem Solving List

<table>
<thead>
<tr>
<th>REMEDY</th>
<th>LOW WATER FLOW</th>
<th>SHORT FILTER CYCLES</th>
<th>POOL WATER WON'T CLEAR UP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Check skimmer and pump strainer baskets for debris.</td>
<td>1. Check for algae in pool and superchlorinate as required.</td>
<td>1. Check chlorine, pH and total alkalinity levels and adjust as required.</td>
</tr>
<tr>
<td></td>
<td>2. Check for restrictions in intake and discharge lines.</td>
<td>2. Be sure chlorine and pH levels are in proper range (adjust as required).</td>
<td>2. Be sure flow rate through filter is sufficient.</td>
</tr>
<tr>
<td></td>
<td>3. Check for air leak in intake line (indicated by bubbles returning to pool).</td>
<td>3. Check surface of filter sand for crusting or caking (remove 1&quot; of sand if necessary).</td>
<td>3. Operate filter for longer periods.</td>
</tr>
<tr>
<td></td>
<td>4. Backwash filter.</td>
<td></td>
<td>4. Be sure Vari-Flo valve is set on &quot;Filter&quot; position.</td>
</tr>
</tbody>
</table>

## Pool Chemistry Guidelines

### Suggested Pool Chemistry Levels

<table>
<thead>
<tr>
<th>Suggested Pool Chemistry Levels</th>
<th>Action Required to Correct Pool Chemistry</th>
</tr>
</thead>
</table>
| pH 7.2 to 7.6                   | **To Raise** Add Soda Ash  Add Muriatic Acid or Sodium Bisulphate  
| **TOTAL ALKALINITY 100 to 130 ppm** | Add Sodium Bicarbonate  Add Muriatic Acid  
| **CHLORINE (UNSTABILIZED) 0.3 to 1.0 ppm** | Add Chlorine Chemical  No action - chlorine will naturally dissipate  
| **CHLORINE (STABILIZED) 1.0 to 3.0 ppm** | Add Chlorine Chemical  No action - chlorine will naturally dissipate  
| **CHLORINE STABILIZER (Cyanuric Acid) 40 to 70 ppm** | Add Stabilizer  Dilution - partially drain & refill pool with water that has not been treated with Cyanuric Acid. |
HAYWARD® LIMITED WARRANTY

This equipment was inspected before shipment from our plant. To original purchasers of this equipment, Hayward Pool Products, Inc., 620 Division Street, Elizabeth, New Jersey, warrants its products free from defects in materials and workmanship for a period of ONE (1) year from the date of purchase.

Parts which fail or become defective during the warranty period, except as a result of freezing, negligence, improper installation, use, or care, shall be repaired or replaced, at our option, without charge, within 90 days of the receipt of defective product, barring unforeseen delays.

To obtain warranty replacements or repair, defective components or parts should be returned, transportation paid, to the place of purchase, or to the nearest authorized Hayward service center. For further Hayward dealer or service center information, contact Hayward customer service department. No returns may be made directly to the factory without the express written authorization of Hayward Pool Products, Inc.

To original purchasers of this equipment, Hayward Pool Products, Inc. warrants its vacuum release systems to be free from defects in materials and workmanship for a period of ONE (1) year from the date of purchase.

Filters which become defective during the warranty period, except as a result of freezing, negligence, improper installation, use or care, shall be repaired or replaced, at our option, without charge.

All other conditions and terms of the standard warranty apply.

Hayward shall not be responsible for cartage, removal and/or reinstallation labor or any other such costs incurred in obtaining warranty replacements.

The Hayward Pool Products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

*Supersedes all previous publications.

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**WARRANTY REGISTRATION CARD**

**Mail to** Hayward Pool Products, Inc., 620 Division Street, Elizabeth, NJ 07207, Attn: Warranty Dept.

**Name**

**Address**

City    State    Zip

**E-mail Address**

**Product Purchased**

**Product Serial No.**

**□ New Installation**  **□ Replacement**

**Type of In-Ground Pool:**

□ Vinyl  □ Fiberglass  □ Gunite

**Size of Pool**

**Years pool has been in service**

□ less than 1  □ 1-3  □ 3-5  □ 5-10

**Purchased from:**

**Company name**

**Address**

City    State    Zip

**Please send me more information on these other products from Hayward:**

□ Pump  □ Filter  □ Automatic Pool Cleaner  □ Light

□ Chlorinator  □ Skimmer  □ Heater  □ Heat Pump

□ Salt/Chlorine Generator  □ Controls

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