## HAYWARD STAR-CLEAR™ PLUS CARTRIDGE FILTERS
Models C751  C7512  C900  C9002(S)  C1200  C12002(S)  C1502  C17502(S)  C2002

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EFFECTIVE FILTRATION AREA</th>
<th>DESIGN FLOW RATE RESIDENTIAL</th>
<th>DESIGN FLOW RATE PUBLIC</th>
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<td>M²</td>
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<td>16.3</td>
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MAXIMUM WORKING PRESSURE FOR ALL MODELS  50 PSI (3.45 BAR)

ATTENTION INSTALLER: THIS MANUAL CONTAINS IMPORTANT INFORMATION ON THE OPERATION, AND SAFE USE OF THIS EQUIPMENT. THIS MANUAL IS INTENDED FOR THE END USER OF THIS PRODUCT.
This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury or death.

**WARNING** Warns about hazards that could cause serious personal injury or, death, and or major property damage and if ignored presents a potential hazard.

**CAUTION** Warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe. The NOTICE label indicates special instructions that are important but not related to hazards.

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**READ, UNDERSTAND, AND FOLLOW ALL SAFETY AND OPERATION INSTRUCTIONS.** FAILURE TO FOLLOW SAFETY AND OPERATION INSTRUCTIONS CAN RESULT IN SEVERE PERSONAL INJURY OR DEATH.

**CAUTION** To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. The ANSI/NSPI-4 Standard (above-ground and on-ground pools) advises that components such as the filtration system, pumps, and heaters be positioned to prevent their being used as a means of access to the pool by young children.

**WARNING ** COMPONENT SEPARATION HAZARD

Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and possibly after pump shut off. Pressure in system can cause explosive component separation of the upper filter body if safety and operation instructions are not followed. Severe personal injury or death can result.

**WARNING ** EXCESS PRESSURE HAZARD

Pressure testing of the pump and filter system in excess of the 50 PSI can cause explosive separation of the components. Component separation can result in severe personal injury or death.

**WARNING ** ELECTROCUTION HAZARD

High voltage electricity is present in the pool and spa equipment. High voltage electricity can cause shock and electrocution. Failure to follow safety and operation instructions can result in severe personal injury or death.

- All electrical wiring MUST be in conformance with applicable local codes, regulations and the National Electrical Code (NEC).
- Before performing any service or maintenance on electrical equipment turn off all electrical power.
- Contact a licensed electrician or building inspector for information on local electrical codes for bonding requirements.
- Verify water discharge from the filter manual air relief valve is directed away from electrical devices.
- Do not locate pump controls over or near filter.

**WARNING ** SUCTION ENTRAPMENT HAZARD.

Suction in suction outlets and/or suction outlet covers that 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 Entrapment** - A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover that is, damaged, broken, cracked, missing, or unsecured can result in evisceration/ disembowelment entrapment.
- **Jewelry 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.

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**USE ONLY HAYWARD GENUINE REPLACEMENT PARTS**
TO REDUCE THE RISK OF ENTRAPMENT HAZARDS:

- 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 outlets shall be placed in such locations and distances to avoid “dual blockage” by a user.
- Dual suction outlets shall not be located on seating areas or on the backrest for such seating areas.
- The pool or spa circulation system shall be designed to comply with ANSI/APSP-7 2006.
- Suction outlet covers shall conform to ANSI/ASME A112.19.8
- Never use Pool or Spa if any suction outlet component (cover/grate) is damaged, broken, cracked, missing, or not securely attached.
- Immediately replace damaged, broken, cracked, missing, or not securely attached suction outlet components.
- The CPSP as well as the ICC International Residential Code Part IX, Appendix G, Section AG106 specifies the installation of a safety vacuum release system conforming to ASME A112.19.17, or an approved gravity drain system.
- Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increased potential for suction entrapment.
- Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increased potential for suction entrapment.

Suction outlet covers and grates have a finite life. They should be inspected frequently and replaced within specified life.

GENERAL INFORMATION

The Hayward Star-Clear Plus filter is a high performance swimming pool filter with a residential filtration rating of 4,500 gallons (17 kl) per hour (C751), 5,400 gallons (20.5 kl) per hour (C900), or 7,200 gallons (27.3 kl) per hour (C1200, C1502, C1750, and C2002). Manufactured from durable, corrosion-proof materials, they are designed for continuous or intermittent operation, for installation above or below the pool water line, for fresh or saltwater swimming pools or spas. Star-Clear Plus filters utilize a reusable single element, reinforced polyester filter cartridge to provide a high degree of water clarity with absolute minimum care. Their unique design is such that no tools are needed to remove or replace the cartridge in the filter assembly. Simply spin off the locking knob, lift off the filter cover and remove the cartridge. It's that easy.

PUMP SELECTION AND LOCATION

To power your Star-Clear Plus filter, select a continuous duty pump designed for swimming pool or spa service. It is important to first determine where your pump and filter will be located. If above the water line, a self-priming pump must be used. Self-priming pumps such as Hayward’s Super Pump®, Super II™, or TriStar™ have the ability to lift water from a lower level and prime automatically.

Select a pump appropriate for your application. Taking into consideration, operation of hydrotherapy fittings, automatic cleaners, required turn over rates and losses in the system. A dealer can help you select the proper size pump for your system.

FILTER LOCATION

1. Since plumbing fittings offer a resistance to water flow, position the filter as close to the swimming pool as local codes allow. Keep the number of fittings to a minimum. Select a well drained area, one that will not flood when it rains.
2. Set the filter on a solid level surface. Allow a minimum top clearance for cartridge removal of 19” (483mm) for the C751 and C900, 25” (635mm) for the C1200, C1502 and allow 30” (762mm) for the C1750 and C2002. Be sure filter, pump, drain & pressure gauge are accessible for convenient operation.
3. Position the filter so the tank can drain by gravity.
4. If practical, place pump and filter in the shade to shield it from continuous, direct heat from the sun.
PLUMBING
1. Use 1-1/2” or 2” piping. When making permanent connections, be sure to provide unions for easy servicing.
2. Refer to the diagrams on previous page for basic suggested valving. Ball valves are recommended where needed. While systems vary, the main consideration is to provide the desired control of water flow from the pool to the pump and filter, and back to the pool. When the filter is located below water level, provide valves to prevent back flow of water to the filter during cleaning and routine servicing.
3. All plumbing on the Star-Clear Plus filter is 1-1/2” or 2” N.P.T. or socket (solvent weld). When making threaded connections to the filter use plastic adapters. Apply three turns of Teflon tape (or use special plastic pipe sealant) to male threads. Screw the fitting into the thread hand tight; then using a wrench, tighten one more full turn. Additional tightening is unnecessary and could result in broken or damaged fittings.
4. Connect the pool suction plumbing between the skimmer, pool outlet, etc. and the pump.
5. Install the pool return plumbing.
6. If the pressure gauge is not installed, apply three wraps of Teflon tape to the gauge threads, and carefully screw the gauge into the threaded hole in the filter head.
7. A filter drain plug is furnished with each filter and is all that is needed for complete filter draining. A manual air relief valve is furnished to aid in bleeding off unwanted air when starting the filter. The auto air relief provides air removal during operation.
8. All electrical connections should be made in accordance with local codes.
9. Check for joint leaks before operating
10. Refer to pump instruction booklet for pump information.

STARTING THE FILTER
Be sure filter drain plug is closed. Open manual air relief valve a few turns and open the suction and return valves (when used).

CAUTION: 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. Be sure locking knob is secure (hand tighten-only slight pressure is required).

Stand clear of the filter and prime and start the pump, following the manufacturer's instructions. Air trapped in the system will automatically vent to the pool and out air relief valve. Close air relief valve as soon as air is vented.

FILTRATION
Filtration starts as soon as flow is steady through the filter. As the filter cartridge removes dirt from the pool water, the accumulated dirt causes a resistance to flow. As a result, the gauge pressure will rise and the flow will decrease. When the pressure rises 7-10 psi (.49-.70 Bar) above the starting pressure, or when flow decreases below desired rate, clean or replace the filter cartridge.

CLEAN / REPLACE CARTRIDGE
REMOVING CARTRIDGE ELEMENT
1. Shut off the pump.
2. If filter is located below water level, close valves or block off suction & discharge lines to prevent backflow of water from the pool.
3. Remove drain plug and allow water to drain from filter. Close drain plug. (To assist draining process; open air vent a few turns.)
4. Unscrew and remove locking knob (counterclockwise direction) and carefully lift off top cover to gain access to filter cartridge.
5. Lift out cartridge and clean. Or, replace with clean, spare cartridge. (See Cleaning Cartridge.)

REINSTALLING CARTRIDGE ELEMENT
1. Clean any collected debris from the bottom of filter body.
2. Carefully replace cartridge element over tie rod and into filter body ensuring that the cartridge sits evenly on the collector hub in bottom of filter body.
3. Place cover on filter body (being sure filter head 0-ring is in place and clean). Fit tie rod end through center hole.
4. Tighten locking knob in clockwise direction. (Hand tight only.)
5. Proceed as in STARTING THE FILTER.
CLEANING CARTRIDGE
The cartridge filter element can be cleaned by pressure washing inside and out with a garden hose. (The cartridge is easier to clean when dry.) After hosing the cartridge, for best results, allow cartridge to dry and carefully brush pleated surface areas to remove fine particles. Do not pressure wash, as it can damage the filter element.

Algae, suntan oil and body oils can form a coating on the cartridge pleats which may not be thoroughly removed by hosing. To remove such materials, soak the cartridge in a solution of filter element cleaner (various brands available at pool dealer). Follow manufacturer's directions for use and allow an hour for soaking. Hose thoroughly before reinstalling in filter.

A spare cartridge filter element is an excellent investment. It provides convenience and ensures that your filter will always be ready to operate at peak efficiency.

1. Hayward cartridges are specially designed and engineered for use in Star-Clear Plus filters. For best results, use only genuine Hayward Star-Clear cartridges in your filter. Order Model No. CX760RE, CX900RE, CX1200RE, CX1750RE, or CX2020RE from your dealer. The Hayward name is your guarantee of quality.

VACUUMING
Vacuuming can be performed directly into the filter whenever needed. Clean cartridge after vacuuming, if required.

WINTERIZING (Filter)
In areas where sub-freezing temperatures can be expected, the filter should be drained and/or removed from its, operating location and stored indoors. Remove and clean cartridge. Reinstall cartridge in filter tank. Tighten locking knob only a few turns when storing.

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

SUGGESTED POOL CHEMISTRY LEVELS

<p>| | |</p>
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<tr>
<td>pH</td>
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<tr>
<td>TOTAL ALKALINITY</td>
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<tr>
<td>CALCIUM HARDNESS</td>
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<tr>
<td>COMBINED CHLORINE</td>
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<tr>
<td>CHLORINE (STABILIZED)</td>
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<tr>
<td>CHLORINE STABILIZER</td>
<td>60 to 80 ppm</td>
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USE ONLY HAYWARD GENUINE REPLACEMENT PARTS
# PROBLEM SOLVING LIST

## LOW WATER FLOW
1. Check skimmer and pump strainer baskets for debris.
2. Check for restrictions in intake and discharge lines.
3. Check for air leak in intake line (indicated by bubbles returning to pool).
4. Clean Filter Cartridges (see Page 5)

## SHORT FILTER CYCLES
1. Check for algae in pool and treat as required.
2. Be sure chlorine and pH levels are in proper range (adjust as required).

## POOL WATER WON’T CLEAR UP
1. Check chlorine, pH and total alkalinity levels and adjust as required.
2. Be sure flow rate through filter is sufficient.
3. Operate filter for longer periods.

## PARTS
Models C751, C7512, C900, C9002(S), C1200, C12002(S) C1502, C17502(S), and C2002 Filters

<table>
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<th>REF NO.</th>
<th>PART NO.</th>
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HAYWARD® LIMITED WARRANTY

To Buyer, as original purchaser of this equipment, Hayward Pool Products, 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.

To original purchasers of this equipment, Hayward Pool Products warrants its products 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.

DATE OF INSTALLATION ______________________

INITIAL PRESSURE GAUGE READING (CLEAN FILTER) ______________________

PUMP MODEL ______________ HORSEPOWER ______________________

FILTER MODEL ______________ SERIAL NUMBER ______________________

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS
PRODUCT REGISTRATION
(Retain For Your Records)

▲ Retain this Warranty Certificate in a safe and convenient location for your records

DETACH HERE: Fill out bottom portion completely and mail within 10 days of purchase/installation or register online.

__________________________________________________________________________________________________________________________

STAR-CLEAR PLUS CARTRIDGE FILTER
Warranty Card Registration
Register online at www.haywardnet.com

Please Print Clearly:

First Name____________________ Last Name_________________________
Street Address__________________________________________________
City_____________________________ State_________ Zip____________
Phone Number_____________________ Purchase Date_________________
E-Mail Address__________________________________________________

Serial Number

Model Number_____________________________________________________

Pool Capacity_______________(U.S. Gallons)

☐ Please include me on all e-mail communications regarding Hayward® Equipment or promotions.

Mail to: Hayward Pool Products, 620 Division Street, Elizabeth, NJ 07207
Attn: Warranty Dept
Or REGISTER YOUR WARRANTY ON-LINE AT WWW.HAYWARDNET.COM