

27-NOV-2003

N2SABG

SWIMPURE

by Hayward Pool Products Canada Inc.
For Above Ground Swimming Pools

THIS PRODUCT IS DESIGNATED FOR DOMESTIC USE ONLY.

READ THE LABEL AND MANUAL BEFORE USING.

This is a copper releasing device that helps to prevent the growth of algae

WARNING: Staining of pool surface may occur due to deposits of copper salts. Excessive levels of copper may increase the probability of this occurrence.

REG. NO. 27269 P.C.P. ACT

A minimum chlorine level of 0.6ppm must be maintained.

Compatible with all Hayward top mounted filters using
SP0704, SP071113 or SP0714T valves

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N2SABG
FOR ABOVE GROUND SWIMMING POOLS
REG. NO. 27269 P.C.P. ACT

N2SIG
FOR IN GROUND SWIMMING POOLS
REG. NO. 27270 P.C.P. ACT

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RETAIN MANUAL FOR FUTURE REFERENCES

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OWNER'S GUIDE

Page 1

SWIMPURE POOL PURIFYING SYSTEM FOR SAND FILTERS

Your Hayward SwimPure Pool Purifying System has established a new horizon in swimming pool water purification. The system is designed to fit into all Hayward top mount filters using SP0704, SP071113 or SP0714T valves. This is a copper-releasing device that helps to prevent the growth of algae.

Safety Instructions:

The SwimPure Pool Purifying System can be used with every type of chemical treatment available except bromine and bromide based chemicals, biguanide products and copper based algaecides.

1. Metals (e.g. silver) combine with biguanides to form cloudy water.
2. Bromine/Bromide will reduce the effectiveness of the purifying system.
3. Copper based algaecides may cause staining of the pool walls.

Caution: Model **N2SABG** (PCP #27269) is rated for **aboveground pools** from 19,000 liters to 94,500 liters.

Model **N2SIG** (PCP #27270) is rated for **in-ground pools** from 37,800 liters to 132,500 liters. Using a SwimPure system on an undersized pool may cause staining of the pool.

1. INSTALL THE SYSTEM

To Install New Filter Factory-Equipped with SwimPure:

- A. Follow the installation instructions packaged with your sand filter to install the filter system. After filling the filter with sand and removing the sand shield (step 3), proceed with the following instructions:
- B. Remove center pipe extension from the center pipe by pulling the center pipe extension upward with a twisting motion.
- C. Properly place the purifying system onto the center pipe. The side showing "SwimPure by HAYWARD" must face up as shown in illustration (3).
- D. Proceed with steps 4,5,6 and 7 in the sand filter installation instructions. (see Notes: last page.)

To Install SwimPure Retrofit Kit to New Filter:

- A. Follow the installation instructions packaged with your sand filter to install the filter system. After filling the filter with sand and removing the sand shield (step 3), proceed with the following instructions:
- B. Cut the center pipe, following these steps:
 - a. Note the filter control valve model number indicated on the label on the top of the valve. Model number will be SP0714T, SP071113 or SP0704.
 - b. Place the cutter handle through the appropriate hole in the cutter body, as shown in illustration (1). For the SP0714T valve, use the top hole. For SP071113 valve or SP0704 valve, use the middle hole.
 - c. Slip the cutter over the center pipe until the cutter handle rests on the top of the filter, as shown in illustration (2). Now cut the center pipe by:
 - i. Turning the eye screw in a clockwise direction until the screw point lightly contacts the center pipe.
 - ii. Turning the cutter in a clockwise direction, keep cutter handle firmly rested on the top of the filter during turning. After every two revolutions of the cutter, turn the eye screw an additional one-quarter turn in the clockwise direction.
 - iii. Repeat step (ii) until pipe is cut.
 - iv. Remove the cutter.
- C. Properly place the purifying system onto the center pipe. The side showing "SwimPure by HAYWARD" must face up, as shown in illustration (3).
- D. Proceed with steps 4,5,6 and 7 in the sand filter installation instructions. (see Notes: last page).

To Install SwimPure Retrokit To Existing Filter:

- A. Shut off the pump.
- B. If the filter is located below the water level, close valves (or block off suction and discharge lines) to prevent backflow of water from the pool.
- C. Unscrew and remove drain plug and allow water to drain from the filter.
- D. Remove filter control valve clamp.
- E. Remove filter control valve. Note: Hoses can remain attached to the valve.
- F. Cut the center pipe, following these steps:
 - 1) Note the filter control valve model number indicated on the label on the top of the valve. Model number will be SP0714T, SP071113, or SP0704.
 - 2) Place the cutter handle through the appropriate hole in the cutter body, as shown in illustration (1). For the SP0714T valve, use the top hole. For the SP071113 valve, use the middle hole. For SP0704 valve only, note the

last three places of the serial number indicated on the label on top of the valve. SP0704 valves with the serial number indicated on the label on top of the valve. SP0704 valves with serial numbers ending in numbers 29 or higher or G28, H28, J28, K28, L28, M28, use the middle hole. For other SP0704 valves, use the bottom hole.

- 3) Slip the cutter over the center pipe until the cutter handle rests on the top of the filter, as shown in illustration (2). Now, cut the center pipe by:
 - (a) Turning the eye screw in a clockwise direction until the screw lightly contacts the center pipe.
 - (b) Turning the cutter in a clockwise direction. Keep the cutter handle firmly rested on top of the filter during turning. After every two revolutions of the cutter, turn the eye screw an additional one-quarter turn in the clockwise direction.
 - (c) Repeat step (b) until the center pipe is cut.
 - (d) Remove the cutter.

- G. Properly place the new purifying system onto the center pipe with the side showing “SwimPure by HAYWARD” facing up, as shown in illustration (3).
- H. Wipe the filter flange clean.
- I. Insert the filter control valve (with valve/tank o-ring) into the tank neck, ensuring that the bottom part of the valve slips over the top tube of the SwimPure system.
- J. Reinstall filter control valve clamp, following these steps:
 - 1) Loosely pre-assemble both halves of the clamp with one screw and one nut, turning the nut 2 or 3 turns.
 - 2) Install clamp around tank and valve flange, and assemble second screw and nut.
 - 3) Tighten both sides of clamp alternately and evenly. Use a proper-sized large screwdriver and tighten firmly to obtain a good seal.
 - 4) Be sure to place vinyl Protector over ends of screws.

To Install a Replacement SwimPure System:

- A. Shut off the pump.
- B. If the filter is located below the water level, close valves (or block off suction and discharge lines) to prevent backflow of water from the pool.
- C. Unscrew and remove drain plug and allow water to drain from the filter.
- D. Remove filter control valve clamp.
- E. Remove filter control valve. Note: Hoses can remain attached to the valve.
- F. Remove old purifying system by pulling upward on the system. A slight twisting motion may ease its removal.
- G. Properly place new purifying system onto the center pipe with the side showing “SwimPure by HAYWARD” facing up.
- H. Wipe the filter flange clean.
- I. Insert the filter control valve (with valve/tank o-ring) into the tank neck ensuring that the bottom part of the valve slips over the top tube of the SwimPure system.
- J. Reinstall filter control valve clamp, following these steps:

- K. Loosely pre-assemble both halves of the clamp with one screw and one nut, turning the nut 2 or 3 turns.
- L. Install clamp around tank and valve flange, and assemble second screw and nut.
- M. Tighten both sides of clamp alternately and evenly. Use a proper-sized large screwdriver and tighten firmly to obtain a good seal.
- N. Be sure to place vinyl protector caps over ends of screws.

Important: Your SwimPure Retrofit Kit comes with a center pipe extension. It is provided should you decide to operate your sand filter without the SwimPure. Please keep it in a safe place. If later you decide to operate your sand filter without SwimPure, simply take out the SwimPure system from your filter and put the center pipe extension on top of the center pipe before you install the valve.

Note: If your filter has an SP0704 valve with a serial number ending in numbers 29 or higher, or G28, H28, J28, K28, L28, M28, you can use the center pipe extension “as-is”. For other SP0704 valves, please cut 2.5cm off of the top of the center pipe extension (narrow end).

2. BALANCE THE POOL WATER

All swimming pools require properly balanced water. Refer to the chart below for required chemical levels. Consult your dealer for specific water balance instructions. **IMPORTANT:** The pool water must be balanced before using the purifying system. Failure to balance the pool water may cause staining of the pool and/or may shorten the SwimPure system’s useful life.

- A. Depress Vari-Flo control valve handle and rotate to Recirculate position.
- B. Prime and start the pump according to pump instructions allowing the filter tank to fill with water. **CAUTION:** All suction and discharge valves must be open when starting the pump. Failure to do so could cause severe personal injury and/or property damage.
- C. Operate the filter in the “Recirculate” position while chemical additions are made until the water is balanced. In this position water is recirculated through the pool, bypassing the filter and SwimPure system.
- D. After water is balanced, turn off pump and set Vari-Flo control valve to Filter position.

pH	7.2	7.8
Calcium Hardness	200	300 ppm
Total Alkalinity	80	120 ppm

3. RECORD INSTALLATION DATE

Important: Record the installation date of your SwimPure system on the label provided with your SwimPure system. Make sure the label is placed on the body of your filter. Replace the SwimPure unit after six months.

4. SUPER-OXIDIZE OR “SHOCK” THE POOL

On the first day, super-oxidize the water with 120g of Calcium Hypochlorite or 1L of Sodium Hypochlorite per 10,000L of water to burn off contaminants and to activate the purifying system.

5. ACTIVATE THE SYSTEM

A) Run the pump filter system 24 hours per day for 4 days.

OR

B) Run the pump and filter system 6 hours per day for 14 days.

Note: Maintain 1-2 ppm residual chlorine level throughout the 4 days or 14 days activation period.

6. Once the system activation is complete, allow the free available chlorine residual to drop but not below 0.6ppm.

MAINTENANCE

1. Follow the maintenance schedule below

How Often:	What to do:
<i>Every day</i>	Run pump and operate filter system at least 6 hours daily
<i>Once a Week</i>	Balance pH and Total Alkalinity
<i>As Needed</i>	Check Chlorine residual: add chlorine to maintain a minimum of 0.6ppm free available chlorine.
<i>As Needed</i>	If the water starts to look hazy, super-chlorinate (“shock”) using 120 grams of calcium hypochlorite or of non-chlorine oxidizer per 10,000 liters of water. Add cyanuric acid to maintain 50ppm. Add chlorine to maintain a minimum of 0.6ppm free available chlorine.

2. Replacement interval

In frost-belt regions (3-6 month season):

Discard your used system and install a new system when you open your pool in the spring.

In sun-belt regions (7-12 month season):

Replace the system every 6 months whether or not you plan to use the pool for swimming.

Important: Your SwimPure replacement unit comes with a label. Record the installation date of the unit on the label and place the label on the body of your filter. Replace the SwimPure unit after six months.

Troubleshooting Guide

	Problem	What To Look For	Treatment
Cloudy water	Poor filtration	Slow filter turnover rates	1.backwash & clean filter 2.run filter for 24 hrs. 3.increase run time per day.
	Algae Growth	Hazy pool water, may have slight green appearance.	Superchlorinate water (with dealer's guidance) and brush pool walls. See below for green algae treatment.
	Unbalanced water	1.High hardness 2.High TDS (Total Dissolved Solids) 3.High pH 4.High Total Alkalinity	Balance the pool water
Algae Algae may be caused by chlorine insufficient levels of oxidizer and/ or inadequate water circulation.	Green algae	Pea green color; attaches to pool walls; sometimes colors the entire body of water.	1.check pH and adjust if necessary. 2.shock pool 3.brush surfaces 4.repeat steps 1-3 until algae is gone. 5.backwash filter.
	Black algae	Black spots on pool walls	1.brush affected areas. 2.shock pool with chlorine.
	Mustard algae	Yellow or brown film on steps or walls.	3.add algaecide 4.vacuum pool 5.repeat steps 1-4 until algae is gone. 6.backwash filter.

Notes: *Regular algaecide treatments are recommended for outdoor pools that experience persistent algae problems. Do not use algae treatments containing either copper or sodium bromide. Warning: staining of surfaces may occur due to deposits of copper salts. Excessive levels of copper may increase the probability of this occurrence.*

Steps 4-7 Filter Installation Guide

4. Assemble Filter Control Valve to filter tank.
 - a) Place stainless steel valve flange clamp around neck of tank. Do not tighten. Wipe filter flange clean.
 - b) Insert Filter Control Valve (with valve/flange o-ring in place) into the tank neck, taking care that the center pipe slips into the hole in the bottom of the valve. Place clamp around valve flange and tank flange and tighten just enough so that the valve may be rotated on tank for final positioning.
 - c) Carefully Screw pressure gauge, with pipe tape, into ¼” tapped hole in valve body. Do not over tighten.
 - d) Connect pump to control valve opening marked PUMP according to instructions. After connections are made, tighten valve flange clamp with screwdriver, tapping around clamp with screwdriver handle to help seat valve flange clamp.

5. Make return to pool pipe connections to control valve opening marked RETURN and 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 winter drain cap is securely in place and all pipe connections are tight.

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