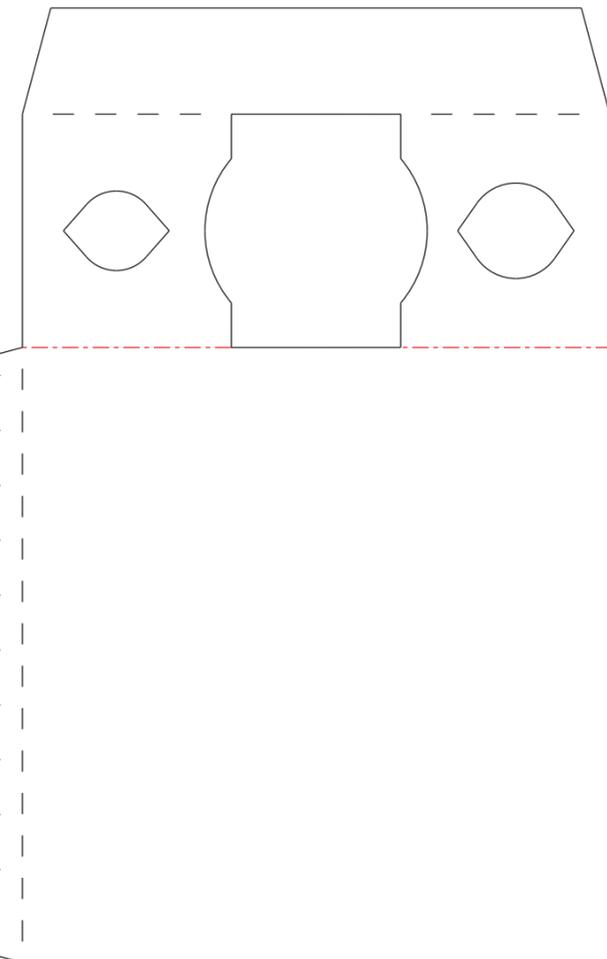


APPROVED
By Sally Hayes at 4:16 pm, 5/15/06



Part of the EverFresh®
water care system

FreshWater_{Ag+}
Continuous
Silver Ion Sanitizer
Lasts a Full 4 Months!



The FreshWater_{Ag+} sanitizer comes in two parts, the main body and the handle.

INSTALLS IN SECONDS RIGHT INTO YOUR FILTER.

1. Attach handle to main body.
2. Remove gray cap from filter standpipe.
3. Drop sanitizer into filter standpipe, handle up.
4. Replace cap onto filter standpipe.

Please refer to the operating manual for complete installation instructions.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals.

CAUTION

In the unlikely event that a cartridge breaks, mineral media should not be ingested by humans or animals as it may cause gastric distress.

FIRST AID

If ingested: Call the Poison Control Center or a doctor immediately for treatment advice.

STORAGE/DISPOSAL

Storage – Store in areas inaccessible to small children.

Disposal – After 4 months of use, discard cartridge in household trash. Do not save the cartridge for re-use. The cartridge is manufactured with mineral sealed media inside. In the unlikely event a cartridge breaks, remove it and vacuum out any media introduced into the spa water.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. See Owner's Manual inside box for directions for use.

CHANGE THIS CARTRIDGE EVERY 4 MONTHS

Use of this cartridge for longer than 4 continuous months will void the warranty. Discard this cartridge at the end of 4 months.

Sold by: **Watkins Manufacturing Corporation**
1280 Park Center Drive
Vista, CA 92081

Hot Spring, Tiger River, Hot Spot, Solana, EverFresh, FreshWater III and FreshWater_{Ag+} are registered trademarks of Watkins Mfg. Corp. Nature2 is a trademark of Zodiac Pool Care, Inc. Printed in the U.S.A. Specifications subject to change without notice.



W12200

For Use With Hot Spring®,
Tiger River®, Hot Spot®
and Solana® Spas



For Use With Hot Spring®,
Tiger River®, Hot Spot®
and Solana® Spas



LICENSED

PERIOD **2006-2008** LIC. NO.



LICENSED

PERIOD **2009-2011** LIC. NO.



LICENSED

PERIOD **2012-2014** LIC. NO.



LICENSED

PERIOD **2015-2017** LIC. NO.

8518.2

FreshWater_{Ag+}

Continuous
Silver Ion Sanitizer
Lasts a Full 4 Months!

FreshWater_{Ag+}

FreshWater_{Ag+}

FreshWater_{Ag+}

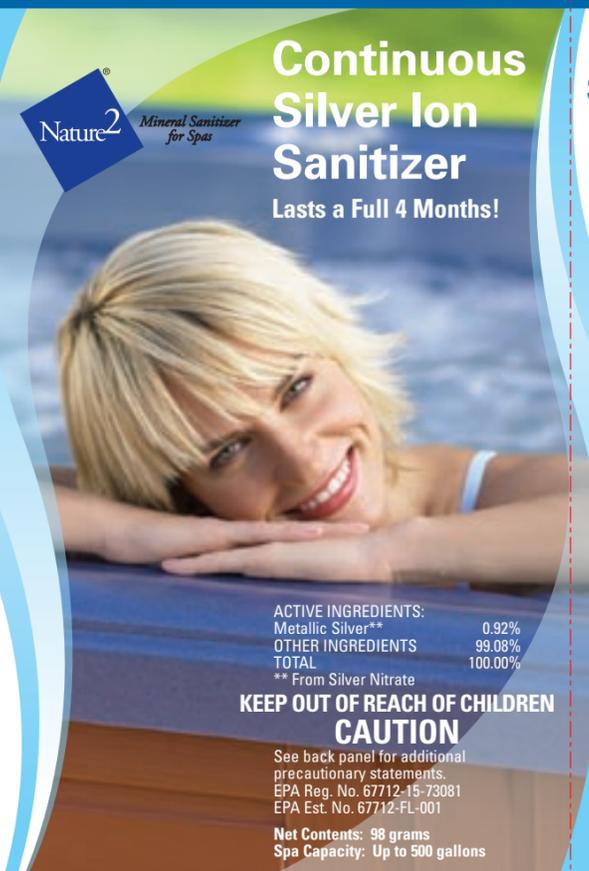
Continuous Silver Ion Sanitizer
Brilliantly clear, odor-free
spa water

IT'S EASY.

Quickly and easily install FreshWater_{Ag+} sanitizer, then relax while it consistently and conveniently sanitizes your water for a full 4 months.

IT'S COMPATIBLE.

FreshWater_{Ag+} is specifically designed to use with Hot Spring®, Tiger River®, Hot Spot® and Solana® Spas. Compatible with the FreshWater® III ozone system.



Continuous Silver Ion Sanitizer
Lasts a Full 4 Months!

ACTIVE INGREDIENTS:	
Metallic Silver**	0.92%
OTHER INGREDIENTS	99.08%
TOTAL	100.00%
** From Silver Nitrate	

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel for additional precautionary statements.
EPA Reg. No. 67712-15-73081
EPA Est. No. 67712-FL-001

Net Contents: 98 grams
Spa Capacity: Up to 500 gallons

Continuous Silver Ion Sanitizer
The No Bromine
Alternative*

FOR SPARKLING CLEAR WATER...

Ends routine usage of chlorine and bromine and restores water quality when used in conjunction with MPS.***

ENHANCED BATHER COMFORT...
Reduces potential for unpleasant odor and scum lines.

* Requires a small maintenance dose of non-chlorine oxidizer MPS-potassium peroxymonosulfate and an EPA registered dichlor (Sodium-dichloro-s-triazinetrione) for initial and routine superoxidation and shock treatment.

*** Potassium peroxymonosulfate



FreshWater^{AG+}®

Continuous Silver Ion Sanitizer

Owner's Manual

EPA Reg. No. 67712-15-73081

EPA Est. No. 67712-FL-001

**IMPORTANT: Spa Owner, save this manual!
Installer, leave this manual with the spa owner!**

Safety Instructions Important Information

Please read prior to
installation.

FreshWater^{AG+} has been designed to sanitize spas up to 500 gallons.



ATTENTION

Failure to heed the following can result
in permanent injury or drowning.

EQUIPMENT UNDER PRESSURE

- Always turn spa off prior to installing or changing FreshWater^{AG+}. Your spa system is operated under pressure and the pressure must be released before you begin work. Please see your spa owner's manual for further instructions.

PREVENT CHILD DROWNING

- Do not let anyone, especially small children, sit, step, lean or climb on any equipment installed as part of your spa's operational system.

LOW CHLORINE RECIPE

- You must strictly follow the FreshWater^{AG+} recipe included in this manual to maintain proper water chemistry and avoid health hazards. Failure to follow these instructions can lead to sickness from bacteria and other noxious organisms.



CAUTION

PRECAUTIONARY STATEMENT

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

In the unlikely event that a cartridge breaks, mineral media should not be ingested by humans or animals as it may cause gastric distress.

FIRST AID

IF INGESTED: Call poison control center or doctor immediately for treatment advice.

The FreshWater^{AG+} is designed only for residential portable spas.



HotSpring[®]
Portable Spas

WE ASK YOU TO TAKE THE TIME TO GET FAMILIAR WITH THIS MANUAL.

Thank you for purchasing FreshWater_{AG+}. We believe the more you know, the more enjoyable your family's bathing experience will be – and the more you will reduce the time, effort and cost of maintaining your spa. Spa owners who switch from conventional chemical programs to the FreshWater_{AG+} spend less time maintaining their spa. Every spa has its own characteristics of water type, amount of sunlight, etc. The recipe included in this manual will help insure good water quality for your spa. Remember, your authorized Hot Spring dealer can provide professional advice and service.

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DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

FRESHWATER_{AG+} COMPATIBILITY

Attention

Not to be used with product containing Bromine, Sodium bromide, or biguanides. If these products are being used, be sure to drain and refill with fresh water.

Start-Up

- Before starting up a new FreshWater_{AG+}, clean debris and algae out of the spa and spa equipment.

Important: *Do not install* the new FreshWater_{AG+} until the spa water is clean and chemically balanced.

- Balance spa water before installing FreshWater_{AG+}.
 - pH 7.2-7.6
 - Calcium hardness 200-400 ppm
 - Total alkalinity 80-120 ppm
 - Total Dissolved Solids (TDS) 300-2000 ppm

Consult with your Hot Spring Dealer for specific water balance instructions.

Balance the Water

To find out if your spa water is balanced:

- take a water sample to your dealer to be tested regularly, or
- ask your dealer to recommend a spa test kit for water balance.

Element: pH

Range: 7.2-7.6

If it's too low: The surface of your spa can become etched. Metal parts in the pump and plumbing will corrode.

How to fix: Add pH increaser.

If it's too high: "Scale" forms on the surface of your spa. The water can become cloudy. Equipment can become damaged.

How to fix: Add pH decreaser.

Element: Calcium Hardness **Range:** 200-400 ppm

If it's too high: Rough, discolored deposits ("scale") will form on the spa surface and inside spa equipment.

How to fix: Drain or dilute the spa water. Consult your dealer.

Element: Total Alkalinity **Range:** 80-120 ppm

If it's too low: It provides no buffer so that you constantly get fluctuating pH readings, which can damage equipment and spa surfaces.

How to fix: Use an alkalinity increaser.

If it's too high: The water becomes cloudy or milky white.

How to fix: Add acid to bring alkalinity down.

Install the FreshWater_{AG+}

- 1 Drain and refill your spa.** Balance water per spa manufacturer guidelines.
- 2 Install the FreshWater_{AG+}** after water is balanced. Refer to Assembly and Installation Diagrams below for instructions regarding your particular model's installation.
- 3 Superoxidize** the spa water with an EPA registered source of chlorine according to manufacturer's instructions to burn off contaminants and activate cartridge.
 - Add 1.5 tablespoons of dichlor¹ to spa per 250 gallons (approx. 1000 liters).
 - Note: 1.5 tablespoons is approximately 3/4 oz or 24 grams.
 - Do not enter the spa if the free available chlorine residual is over 5 ppm.

Important: Initial superoxidation with dichlor¹ is required to burn off contaminants and activate cartridge.

- 4 Run spa** according to recommendations supplied to you by the manufacturer of your spa.

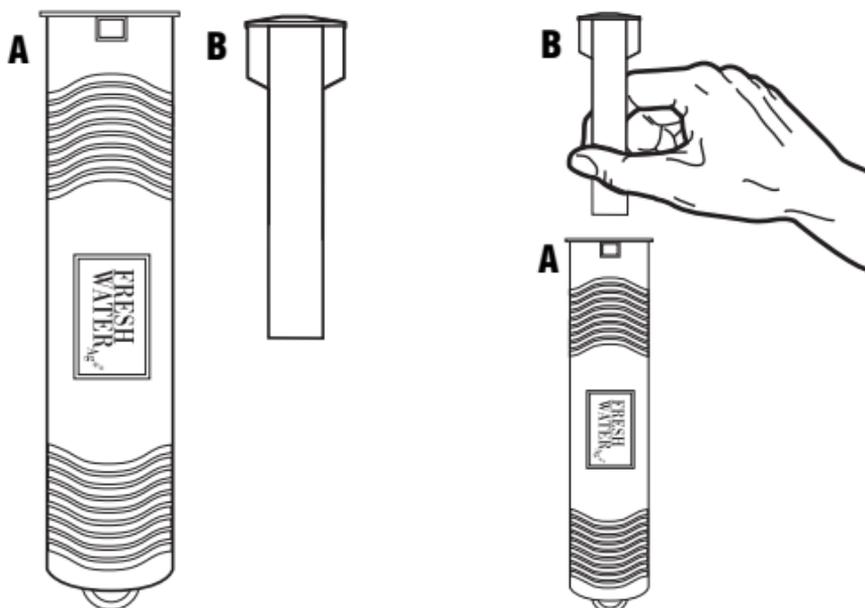
ASSEMBLY AND INSTALLATION DIAGRAMS

The FreshWater_{AG+} comes in two parts.

The main body (A) and the handle (B).

- 1 Attach** the handle to the main body to create a single device as shown.

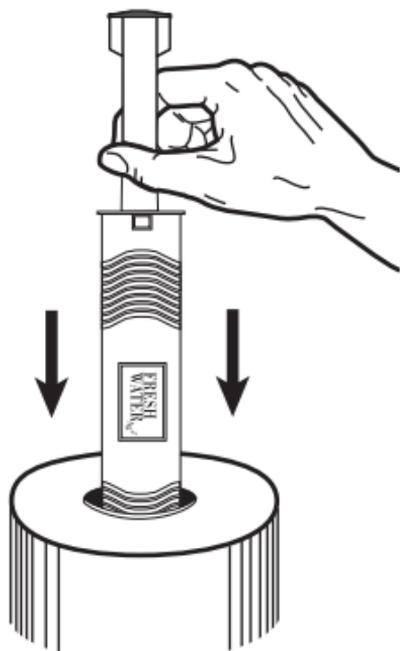
Note: The FreshWater_{AG+} is designed to fit most portable spas. Watkins Manufacturing Corporation assumes no liabilities for the product if installed in any way other than the methods described in this manual.



¹ Sodium dichloroisocyanurate dihydrate

2 Remove gray cap from filter standpipe.

3 Drop sanitizer into filter standpipe, handle up as shown.



4 Replace gray cap onto filter standpipe.

Recipe

There is one recipe for maintaining clean, clear, sanitized water with minimum time and effort.

This recipe provides the easiest and most economical way to care for your FreshWater_{AG+}.

Low-Chlorine Recipe

Ingredients:

- FreshWater_{AG+}
- Non-chlorine oxidizer (MPS²)³
- Hot Spring MPS Test Strips⁴, or equivalent (MPS², pH, total alkalinity)
- pH, hardness and total alkalinity adjusting chemicals
- Dichlor¹, EPA registered source

When: What to do:

Every day Run spa according to recommendations supplied to you by the manufacturer of your spa.

Before each use Test the water with the Hot Spring MPS Test Strip (or equivalent). If the MPS² level is low, add 1 tablespoon of MPS² to spa per 250 gallons (approx. 1000 liters).
(Note: 1 tablespoon is approximately 1/2 ounce or 16 grams)
Use the Hot Spring MPS Test Strip (or equivalent) to test the spa water after each addition of MPS².
If the test strip indicates levels below the OK range, add 1 tablespoon MPS² to spa per 250 gallons and re-test.
Enter spa only after test strip indicates a sufficient level of MPS².

After each use Add 1 tablespoon of MPS² to spa per 250 gallons (approx. 1000 liters).

Once per week Adjust the pH, total alkalinity, and hardness as needed. A convenient way to test pH and total alkalinity is the Hot Spring MPS Test Strip.

Every 4 months Drain and refill your spa. Replace FreshWater_{AG+} and repeat sanitizer start-up.

As needed Shock treat with 1.5 tablespoons of an EPA registered source of dichlor¹ per 250 gallons (approx. 1000 liters) to remedy problems which may occur when bathing loads are high, when successive MPS² test strip reading indicate high demand, when water appears hazy or dull, when unpleasant odors or eye irritation occur, after heavy wind and rainstorms or if foam develops.

Note: As an alternative to MPS², an EPA registered source of dichlor¹ may be substituted: 1 tablespoon dichlor¹ = approximately 3 tablespoons MPS.²

Important: Perform start-up procedures for spas which have been unused or unattended. The FreshWater_{AG+} is not to be used with products containing bromine, sodium bromide or biguanides. If these products are being used, BE SURE TO DRAIN AND REFILL SPA WITH FRESH WATER.

² Potassium peroxymonosulfate

³ MPS may cause a lowering of the pH and total alkalinity of your spa water. Please monitor pH and total alkalinity at least once per week and adjust accordingly.

⁴ Hot Spring MPS Test Strips are available at your local Hot Spring Dealer.

Provide Filtration/Circulation

To manage:

You need to:

Circulation

Follow the manufacturer's directions for keeping the circulating pump in good working order and operate it at least four hours a day.

Consult your Hot Spring dealer for optimum run times.

Filtration

Check the spa's filter periodically and clean it as recommended by the manufacturer.

FreshWater_{AG+} Replacement Intervals

Use the month indicator decal to identify the date on which the cartridge should be replaced. Always turn spa off prior to installing or changing FreshWater_{AG+}. Your spa is operated under pressure and the pressure must be released before you begin work. Please see your spa owner's manual for further instructions.

A cartridge lasts four (4) months. The cartridge should not be used longer than four (4) months.

Disposal

After four months of use, discard FreshWater_{AG+} in household trash. Do not save the cartridge for re-use. The cartridge is manufactured with the mineral media sealed inside. In the unlikely event a cartridge breaks, remove it and vacuum out any media introduced into the spa.

Limited Warranty

FRESHWATER_{AG+} LIMITED WARRANTY

The limited warranties contained within this document are the only warranties given with your FreshWater_{AG+} and supercede any prior warranties. **All other warranties, expressed or implied, including the implied warranty of merchantability or the implied warranty of fitness for a particular purpose are hereby disclaimed.** Our sole obligation under this warranty, and the purchaser's sole remedy, is limited to repair or replacement of the FreshWater_{AG+}. The FreshWater_{AG+} warranty applies to the original owner only.

THE LIMITED WARRANTIES OF THE FRESHWATER_{AG+} ARE:

FreshWater_{AG+} is warranted to be free of defects in materials and to perform satisfactorily for a period of four months from the date of purchase. FreshWater_{AG+} is warranted not to cause staining in your spa. This limited warranty requires that you exercise reasonable care of your spa and keep water in balance at all times. This limited warranty does not cover discoloration to chromium fittings. This warranty does not cover cartridges used with any biguanide products such as BaquaSpa^{®5}, Baquacil^{®5}, Soft Swim^{®6} or any products containing Bromine or Bromine-based chemicals. If the cartridge is defective and does not perform satisfactorily for the entire four months, we will replace the cartridge.

EXCLUSIONS FROM WARRANTY

FreshWater_{AG+} is designed for use on residential portable spas up to 500 gallons. If it is used in any other application, the warranty is void, and the purchaser and/or spa owner releases the manufacturer from any and all claims related to the use of the FreshWater_{AG+}.

This warranty does not cover problems arising in whole or in part from purchaser's negligence, misuse or abuse, improper maintenance or storage, accident, improper installation, improper application, failure to follow all appropriate safety precautions, Acts of God, abnormal weather conditions, damage from plants or animals, and improper use of chemicals.

This warranty specifically excludes all incidental or consequential damages, except where state law requires them to be paid. This warranty gives you specific rights. You may have other rights that vary from state to state.

TO SUBMIT A CLAIM

Report claims to Watkins Manufacturing Corporation by calling 800-999-4688. Only the original purchaser may submit a claim under this limited warranty. Claims must be accompanied by an original purchase receipt.

⁵ A Trademark of Arch Chemicals, Inc.

⁶ A Trademark of BioLab, Inc.

Troubleshooting

	Problem	What to look for
Cloudy water Frequently caused by improper start up. See section on Start Up and Install the Cartridge.	Spa filtration	Slow filter turnover rates
	Algae growth	Hazy spa water; may have slightly green appearance.
	Unbalanced water	1. High hardness 2. High TDS (total dissolved solids) 3. High pH 4. High total alkalinity
Algae Algae may be caused by insufficient levels of oxidizer and/or inadequate water circulation.	Green or white algae	Pea green to white color; attaches to spa walls; sometimes colors the entire body of water
	Note: Do not use algae treatments containing either copper or sodium bromide.	
Stains	Blue/green	Copper or iron from spa equipment corrosion or water supply
	Red/brown	Iron or manganese from equipment corrosion or water supply.
	Black	Manganese in water supply.
	Metal tarnishing	High native mineral content in water; unbalanced water
Scale	Crusty deposits on spa surfaces	High pH and high total alkalinity High TDS (total dissolved solids) or high hardness

Treatment

- 1 Backwash and clean filter.
 - 2 Run filter for 24 hours.
 - 3 Increase run time per day.
-

Superchlorinate water with EPA registered source of dichlor¹ according to manufacturer's instructions.

Balance the spa water.

- 1 Check pH and adjust if necessary.
 - 2 Superchlorinate water with EPA registered source of dichlor¹ according to manufacturer's instructions.
 - 3 Repeat steps 1 and 2 until algae is gone.
-

- 1 Adjust pH and total alkalinity to ideal ranges.
 - 2 Vigorously brush stained areas.
 - 3 Add sequestrant.
 - 4 Run filter.
 - 5 Twelve hours later, superchlorinate the spa.
 - 6 Test and balance water.
 - 7 Test spa water for dissolved metals.
-

Clean with soft cloth and mild detergent.
Test water for minerals; use a sequestrant;
maintain water balance.

Adjust pH and total alkalinity to ideal ranges.

- 1 Replace a volume of spa water with water low in hardness and dissolved solids.
- 2 Use sequestrant to prevent scale buildup if high hardness is a continuing problem.
- 3 If remedial action has been taken, and problem still persists, drain and refill spa.

Hot Spring MPS Test Strips

**Just dip and swirl
the Test Strip.**



See accurate and reliable results on the levels of MPS², Alkalinity and pH in your spa's water.

Now available at your local Hot Spring Dealer.

Sold by: Watkins Manufacturing Corporation
1280 Park Center Drive
Vista, CA 92081

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