UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1/26

OCT 1 6 2003

Sally Hayes, Agent For Zodiac Pool Care c/o Scientific & Regulatory Consultants, Inc. P.O. Box 1014
Columbia City, IN 46725

Subject:

Nature 2 G45-VC40

EPA Reg. No. 67712-1

Your Notification Dated 9/30/03

The notification referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to add the additional brand name of "DuoClear Cartridge", and to make additional non-pesticidal labeling changes allowed by PR Notice 98-10 to both the carton label and owners manual, is acceptable.

Your notification has been made a part of the permanent records for this file.

If you have any questions about the comments in this letter, please feel free to contact Tony Kish at 703-308-9443, or myself at 703-308-6341.

Sincerely,

Marshall/Swindell,

Product Manager Team 33,

Regulatory Management Branch I Antimicrobials Division (7510C)

SYMBOL SURNAME DATE

EPA Form 1320-1A (1/90)

Printed on Recycled Paper

11 S. Government Printing Office: 1992 - 420-856-4-0875

Please read instructions on	reverse before comple	<u>ting form.</u>		Form Approve	d. OMB No. 207	ر کر 0-0060. Approvel expires 2-28-9
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· · · · · · · · · · · · · · · · · · ·		Application	on for Pesticio	le - Section	l	
1. Company/Product Number 67712-1	96		2. EPA P M. Swii	roduct Manager Idell		3. Proposed Classification None Restricted
4. Company/Product (Name Nature2® G45-V			РМ# 33			To those the second sec
5. Name and Address of Ap Zodiac Pool Ca 2028 N.W. 25th Pompano Beac	are, Inc. h Avenue	ode)	(b)(i), m to: EPA R	y product is sin	nilar or identical	with FIFRA Section 3(c)(3) in composition and labeling
			Section - I			
Amendment - Explain Resubmission in res Notification - Explain	ponse to Agency letter	dated		Final printed labe Agency letter da "Me Too" Applic Other - Explain b	ation.	
	derstand that it is a viola with the terms of PR No	tion of 18 U.S.0 ptice 98-10 and	C. Sec, 1001 to willful 40 CFR 152.46, this	ly make any false product may be in	statement to EPA.	eling or confidential statement of I further understand that if this and I may be subject to
1. Material This Product W	II Be Packaged In:					
Yes No * Cartification must Lubmitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per container	Water Soluble Pa	No. per container	P G P	letal astic lass aper ther (Specify)
3. Location of Net Contents	Information	4. Size(s) Re	tail Container	5. La	ocation of Label [Directions
Label	Container Affixed to Product	Lithog	raph clued	Other		
		Paper Stenc				****
O-4-4-5-3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	- 14		Section - IV			
I. Contact Point <i>(Complete</i> Isme Sally Hayes) ITEMS GIFECTLY DEIOW I	or identificatio	Title Agent for Zodiac		Tel	ephone No. (Include Arési (-ode) 60-244-ର୍ଥ୍ୟ ୁ ୍
	oments I have made on my knowlinglly false or law.		all attachments the			6. Date Application
2. Signature Salighan	>		3. Title Agent for Zodiac F	Pool Care, Inc.	P-P-SAPPA	
4. Typed Name Sally Hayes	-		5. Date 69/3:	0/03		

Nature² G45-VC40 EPA Reg. No. 67712-1

Notification 093003

- ➤ Alternate Brand Name DuoClear™ Cartridge
- > Alternate labeling language

CHANGES TO CARTON LABEL

LOCATION	CHANGE	
Page 2	Added the text "Assembled in USA from components made in USA, China, and Australia"	
Page 5	Added new part numbers "W20049", "W20050", and "W20051"	
Page 3	Added a new pool graphic of the DuoClear installation	
Page 5	Added part numbers	
Page 8	Add optional language "Inground and Aboveground"	
Page 11	Added chart to show consumer what cartridge to use in their vessel and other related language	
Page 11	Added DuoClear chart, associated language and text for cartridge stickers	
Page 12	Added a graphic of the DuoClear cartridge	

CHANGES TO OWNER'S MANUAL

LOCATION	CHANGE	1
Global	Use of the phrase "Zodiac dealer" as an optional replacement for "Nature2 dealer"	1
Page 2	Changed ""Zeneca" to "Avecia"	1
Page 4	Changed administrative language]
Page 6	Added the text "Monitor the cartridge replacement light on the DuoClear control panel" in the Cartridge Replacement Intervals section	
Page 7	Revised the Limited Warranty section to include "Nature2" as an alternative	1
Page 7 & 8	Included the optional pool capacity "10,000 to 45,000 gallons"	
Page 8	Added the text "Features Nature ² Technology"	1
Page 8	Added the text "with Nature2 Technology"	• •
Page 8	Added cartridge capacity chart	• • •

ACTIVE INGREDIENTS:	
Metallic Silver**	3.51%
Copper Sulfate pentahydrate***	8.23%
TOTAL	100.00%
**From Silver Nitrate	
*** Copper (Cu) as metallic 2.0%	

^{*}The Nature² System consists of the patented Nature² technology used in conjunction with a chlorine delivery device or 0.5ppm of an EPA registered chlorine pool product.

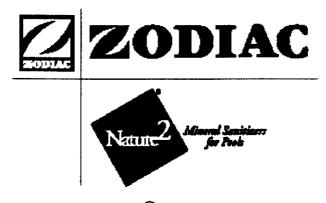
† Nature² technology consists of the minerals silver and copper.

EPA Reg. No. 67712-1

EPA Est. No 67712-FL-001

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS



Nature^{2®} G45-VC40



NET CONTENTS: [ONE CARTRIDGE] [ONE UNIT]

\$26

{language on this page is required on all carton labels}

CHANGE THIS CARTRIDGE EVERY [SIX] [FOUR] MONTHS {may appear on any panel}
Use of this cartridge [for] longer than [four] [six] continuous months will void the warranty. Discard [the] [this] cartridge at the end of [six] [four] months. {may appear on any panel}

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.

DISPOSAL

After [six] [four] months of use, discard cartridge 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 [the cartridge] and vacuum out any media introduced into the pool [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.



Zodiac Pool Care, Inc. 2028 NW 25th Avenue Pompano Beach, FL 33069

© 2002 Zodiac Pool Care, Inc.

Member

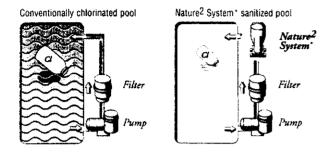


Assembled in USA from components made in USA, China and Australia

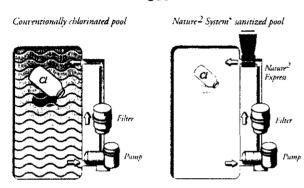
{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

6/26

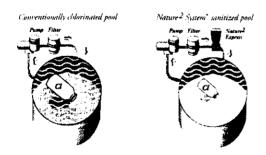
Compare the Difference! {photo dependent on model}



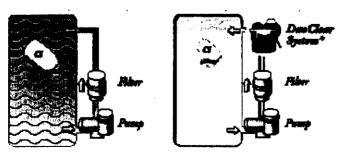
OR



OR



OR {the graphic below added on 9/26/03}



{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

The Nature² System* effectively sanitizes your pool.

- Destroys bacteria and algae growth
- Reduces chlorine use to just 0.5ppm
- Restores water clarity
- [For inground and aboveground pools with cartridge filters up to 25,000 gallons]
- Install in seconds [- lasts [six] [four] months]
- [Mineral cartridge] Lasts [six] [four] months

It's Nature² Technology. †

["Product name" features] Nature² technology [which] is an effective process that sanitizes pool water using minerals and just 0.5ppm chlorine.

To keep your patented Nature² Sanitizer operating properly, it is necessary to change this cartridge every [six] [four] months.

The Nature² System* improves water quality.

- The Nature System is an exclusive patented mineral technology.
- [Lower chlorine levels] help[s] keep [the] pool pH balanced.
- Simply replace the cartridge every [six] [four] months.

Nature^{2®} water is brilliantly clear and soft



Enhanced swimmer comfort.

• Reduces potential for stinging eyes, skin irritation and unpleasant odors.

Will not damage your pool equipment.

Satisfaction guaranteed.

It's compatible.

- Compatible with most pool maintenance products.****
- Will not damage your pool equipment.

**** Do not use [this product] [Nature²] with copper-based algaecides, bromine or bromide chemicals, or Biguanides (Baquacil®, SoftSwim®, Revacil®). Baquacil is a registered trademark of Zeneca Inc., SoftSwim is a registered trademark of Biolab, Inc. Revacil is a registered trademark of Mareva, Inc.

For Crystal Clear Water in All Types of Pools

{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination} {alternate optional language} VC40 VC20 {Replace with the following} [Nature² G Cartridge For 35,000-45,000 Gallon Inground Pools] [Nature² G Cartridge For 25,000-35,000 Gallon Inground Pools] [Nature² G Cartridge For 10,000-25,000 Gallon Inground Pools] [Nature² M Cartridge For 5,000-25,000 Gallon Inground Pools] [Nature² VC Cartridge For inground pools from 5,000-20,000 gallons] [Nature² VC Cartridge] For inground pools from 20,000-40,000 gallons] [Nature²] [G Cartridge] [M Cartridge] [and] [VC Cartridge] [CF] [Express] [Express Cartridge] For [Aboveground] [and] [Inground] Pools [up to 25,000 Gallons] {these part numbers may appear on the respective corresponding label} [P/N] [W] [22325] [22330] [22335] [22340] [22345 [22350] [22355] [222360] [22380] [22385] [20055] [20065] [22375] [29550] [28125] [28126] [28135] [28136] [28145] [28146] [28155] [28175] [28185] [28195] [20171] [20080] [29500] [W20049] [W20050] [W20051] {these are names of vessels (housings) to help the consumer determine the correct cartridge for their system} Nature² Fits all Nature² [Professional G], [Premium M], [R] [A] Vessels [(Except Nature² Limited)] [Nature2, Vision, Claritec, Clear Vision, EcoSpring, Aquatech, Visipure, White River, Fafco, California, Hawaiian] {optional cartridge/corresponding vessel checkbox}

Cartridge	Corresponding Vessel
G25 10,000 - 25,000 Gallons	Professional G Inground Vessel
G35 25,000 - 35,000 Gallons	Professional G Inground Vessel
G45 35,000 - 45,000 Gallons	Professional G Inground Vessel
M25 5,000 - 25,000 Gallons	Premium M Inground Vessel
A30 5,000 - 30,000 Gailons	A Aboveground Vessel

Made in [the] USA {NOTE: A picture of the US flag may also appear on some packages}

{The term "cartridge" or "this product" on this master label may be replaced with the product name on the marketing label}

{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

{Additional optional language/graphics for Express model}

Easy do-it-yourself in-line installation, in minutes [(fits 1 ½" and 2" rigid PVC pipe)] [includes adapter that fits most aboveground pools]

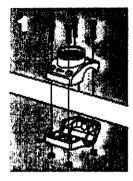
Just twist onto your existing Nature² Express Assembly

[REPLACEMENT CARTRIDGE FOR NATURE² EXPRESS] FOR [ABOVEGROUND] [AND] [INGROUND] POOLS

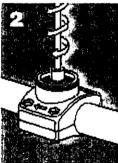
Installation is simple.

In just minutes you can install Nature² Express, activate the cartridge, and start enjoying a crystal clear Nature² pool. Nature² Express fits most aboveground [inground] pools up to 25,000 gallons [with 1 ½" or 2" rigid PVC plumbing].

Nature² Express contains no moving parts and is unaffected by heavy use, hot weather and water temperature. You only have to change the replaceable cartridge every six months! Please refer to the operating manual for complete installation instructions.



Turn pool pump off.
Secure clamp assembly
on the return line. [For
aboveground pools with
corrugated pipe, use PVC
adapter provided.]



Cut hole in rigid PVC pipe using a power drill and the hole saw that is provided.



Insert the flow diverter into hole and snap it into place.



Snap dispenser shell onto clamp.



Thread the cartridge into the clamp, turn on pool pump and activate the cartridge. Refer to your cartridge owner's manual for start up instructions.

PRODUCT SPECIFICATIONS

Capacity

For 5,000 to 25,000 gallon pools

Cartridge Life

6 months

Run Time

6 hours a day minimum

Installation Process:

Please refer to the Nature² Express Operating Manual for installation instructions.

Refer to the Nature² Express Owner's manual for start-up instructions.

Installation of a Nature² Express replacement cartridge takes just minutes. First turn off the pool pump. Then simply remove the existing cartridge from your Nature² Express Sanitizer and replace it with your new cartridge.



{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

{Additional optional language/graphics for Express model}

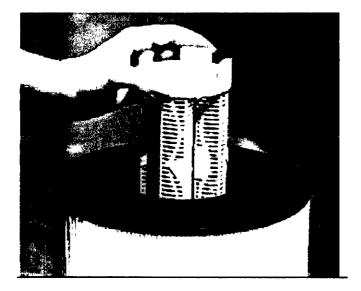






{Additional optional language/graphics for Nature² CF model}

FOR INGROUND AND ABOVEGROUND POOLS WITH CARTRIDGE FILTERS



{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

{Additional optional language/graphics for Hayward model} Hayward® Swimpure™



America's #1 Pool Water Systems Hayward SwimPureTM

Pool Sanitizing System* for Hayward [inground and Aboveground] [Cartridge] [Top-Mount Sand] Filters

For Inground and Aboveground Pools [with cartridge filters]

Easily installs in your Hayward cartridge filter - no external canister required

No electricity, no moving parts...it's powered by water flow

For Inground and Aboveground Pools with [Cartridge] [Sand] Filters

• For inground (up to 35,000 gallons) and aboveground (up to 25,000 gallons) pools with [sand] [cartridge] filters

Works on the following Hayward Cartridge Filters {filter names/model #/cartridge # may vary}

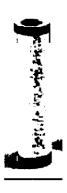
Hayward Filter	Hayward Filter	SwimPure Cartridge
	Model #	#
Easy-Clear	C400	N2CN25
Easy-Clear	C550	N2CN25
ASL	C850	N2CN25
ASL	C1250	N2CW25
Star-Clear Plus	C751/900	N2CW25, N2CW35
Star-Clear Plus	C1200	N2CN25, N2CN35
Star-Clear Plus	C17502	N2CW25, N2CW35
Super Star-Clear/SwimClear	C2000/C2020	N2CN25, N2CN35
Super Star-Clear/SwimClear	C3000/C3020	N2CN25, N2CN35
Super Star-Clear/SwimClear	C4000/C4020	N2CN25, N2CN35
Super Star-Clear/SwimClear	C5000/C5020	N2CN25, N2CN35

{the following cartridge numbers may vary}

☐ N2S25 (Hayward Top Mount IG or AG Sand Filters from 14" x 24" to 21" x 24")

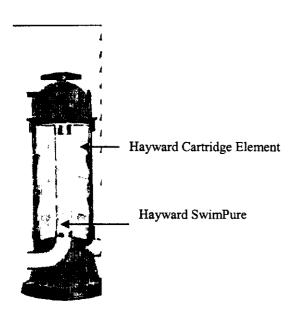
☐ N2S35 (Hayward Top Mount IG Sand Filters from 21" x 24")

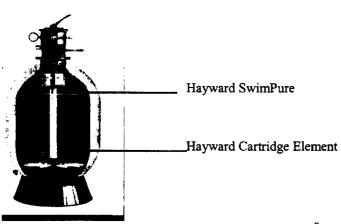




Visit our website at www.xxxx.xxx

[US Patent No. 6,004,458] [US Patent No. 6,254,788] [US Patent No. 6,287,462]





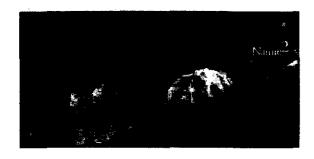
{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

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Debris in unfiltered pool water is trapped by the Hayward cartridge element. Filtered water then passes through the SwimPure Mineral Sanitizing System and re-enters the pool.

{optional graphic for the sand cartridge}





The Nature² logo is a registered trademark owned by Zodiac Pool Care, Inc.

©Hayward

{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

{The contents of this page were added on 09/30/03}

This carton contains

DuoClear Cartridge	Corresponding System
DuoClear 25 10,000 - 25,000 Gallons	DuoClear 25
DuoClear 35 25,000 - 35,000 Gallons	DuoClear 35
DuoClear 45 35,000 - 45,000 Gallons	DuoClear 45

Designed to fit DuoClear Systems for residential pools

Zodiac DuoClear Cartridge

For [10,000-25,000] [25,000-35,000] [35,000-45,000] Gallon Inground Pools

Fits DuoClear [25] [35] [45] System

Features Nature² Technology

Use only on Zodiac DuoClear systems for inground pools

Cartridge Model: DuoClear [25] [35] [45]

For [10,000 to 25,000] [25,000 to 35,000] [35,000 to 45,000] gallon pools

P/N [W20049] [20050] 20051]

Serial No. {insert number}

{for DuoClear replacement cartridges sticker placed on cartridge}

Replacement Cartridge for Zodiac DuoClear

For Inground Pools

Use only on Zodiac DuoClear Systems

If assistance is required, please call: 1-888-537-6657

CAUTION: Use only as directed – This cartridge must not be used in any other model or make of sanitizer. See installation and start-up instructions. Keep out of reach of children.

EPA Est. No. 67712-FL-001

EPA Reg. No. 67712-1

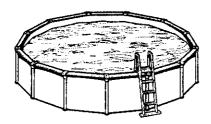
This product is covered by one or more of the following U.S. Patents: 4,608,247 4,935,116

5,352,369 372,069

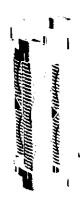


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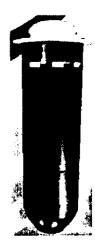








{the graphic below was added on 09/30/03}







EXPRESS CARTRIDGE

Nature² G45-VC40 Owner's Manual

{above is text/logo for Express }

[For Nature² G Cartridges, Nature² M Cartridges, and Nature² VC Cartridge] EPA Reg. No. 67712-1 EPA Est. No. 67712-FL-001 [Nature² CF Owner's Manual For Inground and Aboveground Pools with Cartridge Filters] {Supplementals will insert their company name and logo}

IMPORTANT

Pool Owner, save this manual! Builders, leave this manual with the pool owner!

We ask you to take the time to get familiar with this manual.

Thank you for purchasing seet product name: [with] Nature² [technology]. We believe the more you know, the more enjoyable your family's swimming experience will be—and the more you will reduce the time, effort and cost of maintaining your pool. Pool owners who switch from conventional chemical programs to the Nature² System* spend less time maintaining their pools. Every pool 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 pool. Remember, your authorized [Zodiac] Nature²] dealer can provide professional advice and service.

SAFETY INSTRUCTIONS - Important information. Please read prior to installation

(see attached page for optional information that may be placed here)



bailure to heed the following management in permanent injury, belee to cutom, or drowning.

ELECTRICAL HAZARDI

• [Severe shock will likely occur as a result of a drill or drill cord coming in contact with water. Never allow electric drill or drill cord to come in contact with water. Only plug drill into a Class A (5 Milliampere Trip) protected Ground Fault Circuit Interrupter (GFCI) in accordance with the National Electrical Code Section 680. Please see your drill owner's manual for further safety precautions.]

EQUIPMENT UNDER PRESSURE

• Always turn pump off prior to installing or changing Nature² cartridge. Your pump/filter system is operated under pressure and the pressure must be released before you begin work. Please see your pump/filter 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 pool's operational system. Locate the components of your operational system at least 3 feet from the pool so children cannot use the equipment to access the pool and be injured or drown.

LOW CHLORINE RECIPE

• You must strictly follow the low chlorine 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 Nature² [Pool] Sanitizer is designed only for residential swimming pools.

- * The Nature² System consists of the patented Nature^{2‡} technology used in conjunction with a chlorine delivery device or 0.5ppm of an EPA registered chlorine pool product.
- † Nature2TM technology consists of the minerals silver and copper.



[Optional Table of Contents]		
Contents	Page	{the correct page numbers will be inserted for each manual}
Safety Instructions	1	
Start Up	2	
[Assembly]	3	
Balance the Water	3	
Install the Cartridge	3	
Recipe	4	
Provide Filtration/Circulation	4	
Troubleshooting	5	
Nature2 Cartridge Replacement Intervals	6	
Winterizing Your Pool	6	
Disposal	6	
Limited Warranty	7	

Directions for Use:

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

Nature² Compatibility

Nature² Systems* can be used with all types of pool chemical treatments available except bromine and bromide based chemicals, biguanide products (Baquacil¹, Softswim² or Revacil³) and copper based algaecides. (¹A Trademark of Avecia, Inc., ²A Trademark of Biolab, Inc., ³A Trademark of Mareva, Inc.)

Important: When converting either a biguanide or bromine treated pool to the Nature² System*, the pool must be completely drained and refilled. Then follow the Nature² cartridge start-up procedure below.

,Important: Please make sure that the Nature² cartridge you have selected corresponds to your swimming pool size based on gallons of water. Using a Nature² cartridge for an undersized pool may cause staining of the pool.]

Start Up

Before starting up a new [Nature²] cartridge, clean debris and algae out of the pool and [pool] equipment.

Important: Do not install the new cartridge until the pool water is clean and chemically balanced.

Balance pool water before installing [Nature²] [sanitizer] cartridge.

pH 7.4-7.8
 Calcium Hardness 200-400 ppm
 Total Alkalinity 80-150 ppm

Consult with your [Nature²] [Zodiac] dealer for specific water balance instructions.

Balance the Water

To find out if your pool water is balanced:

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

Element: Range:	pH 7.4-7.8	If it's too low:	The surface of your pool 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 pool. The water can become cloudy. Equipment can become damaged.	How to fix:	Add pH decreaser.
Element: Range:	Calcium Hardness 200-400 ppm	If it's too low:	Water is less stable. In plaster pools, the calcium is taken out of the plaster, causing the surface to deteriorate.	How to fix:	Add calcium hardness increaser.
		If it's too high:	Rough, discolored deposits ("scale") will form on the pool surface and inside pool equipment.	How to fix:	Drain or dilute the pool water. Consult your dealer.
Element:	Total Alkalinity 80-150 ppm	If it's too low:	It provides no buffer so that you constantly get fluctuating pH readings, which can damage equipment and pool surfaces.	How to fix:	Use an alkalinity increaser.
		If it's too high:	White deposits ("scale") form on the tile line. The plaster on pool surface becomes rough or discolored. The water becomes cloudy or milky white.	How to fix:	Add acid to bring alkalinity down.

Install the Cartridge

1 Install the cartridge [into your pool filter] after water is balanced. [See] [Refer to] [the] [your] Nature² {the model name may also be inserted here} [vessel] operating manual for additional instructions [regarding your particular model's installation]. {the product name may be used in place of or in addition to the term "cartridge"}

2 [Superoxidize] [Superchlorinate] the pool water with chlorine according to manufacturer's instructions to burn off contaminants and activate cartridge.

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

3 Run the circulating pump either:

- 24 hours a day for 4 days, maintaining 1-2 ppm [free] chlorine throughout, or
- 6 hours a day for 14 days, maintaining 1-2 ppm [free] chlorine throughout.
- 4 Let chlorine dissipate to 0.5 ppm once start up period is completed.
- Do not enter the pool if the free available chlorine residual is over 3 ppm.

Recipe

This recipe provides the easiest and most economical way to care for your Nature² pool.

Low-Chlorine Recipe

Once the 4-day or 14-day start-up period is done, allow the free [available] chlorine residual to drop to 0.5 ppm (by reducing the amount of chlorine you add) then:

Ingredients:

•	Nature ² cartridge	When:	What to do:
{pr •	oduct name may be macred! Chlorine granules, tablets, liquid or generator	Every day	Run pump and filter at least 6 hours every day.
•	pH and total alkalinity adjusting chemicals	Once a week	Balance pH and total alkalinity.
•	Calcium hardness increaser, if needed		
•	Water test kit	Twice a week	Check chlorine residual; add chlorine to maintain at least [a] 0.5ppm [free chlorine] [range using the chart below].
		As needed	If water is hazy, superoxidize with chlorine according to manufacturer's instructions. Additional shocking is recommended following rainstorms or heavy bather load. Do not re-enter the pool if the free available chlorine residual is over 3 ppm.

Add the following amounts of chlorine per 10,000 gallons of water to increase free chlorine by 0.5 ppm

Type of Chlorine Containing Compound	% Active Ingredient	% Available Chlorine Content	Ounce Quantity Required	Gram Quantity Required
Sodium Hypochlorite Liquid	5.25	5.25	12.7	361
Sodium Hypochlorite Liquid	9.2	9.2	7.3	206
Sodium Hypochlorite Liquid	10	10	6.5	184
Sodium Hypochlorite Liquid	12	12	5.6	158
Calcium Hypochlorite	65	64	1.1	30
Dichloroisocyanurate	99	62	1.1	30
Lithium Hypochlorite	29	35	1.9	54
Trichloro-s-triazintrione	99	90	0.7	21
Chlorine Gas, from any source including chlorine generators	100	100	0.7	19

Provide Filtration/Circulation

Τo	manage:
----	---------

You need to:

Circulation

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

day. Consult your [Nature²] [Zodiac] dealer for optimum run times.

Filtration

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

Troubleshooting Guide | Consult vom (Name

Dr. Jan and a statement is included on call 1-888-837 6657 f

	Problem	What to look for	Treatment
Cloudy water Frequently caused by improper start up. See section on Start Up [and Install the Cartridge.]	Poor filtration	Slow filter turnover rates	1 Backwash and clean filter. 2 Run filter for 24 hours. 3 Increase run time per day.
	Algae growth	Hazy pool water, may have slightly green appearance.	[Superchlorinate] [Superoxidize] water with chlorine according to manufacturer's instructions and brush pool walls.
	Unbalanced water	High hardness High TDS (total dissolved solids) High pH High total alkalinity	Balance the pool water.
Algae may be aused by 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 [Superchlorinate] [Superoxidize] with chlorine according to manufacturer's instructions and brush pool walls. 3 Repeat steps 1 and 2 until algae is gone.
	Black algae	Black spots on pool walls.	1 Brush affected areas.
	Mustard algae	Yellow or brown film on steps or walls.	 2 [Superchlorinate] [Superoxidize] water with chlorine according to manufacturer's instructions. 3 Add algaecide. 4 Vacuum pool. 5 Repeat steps 1 through 4 until algae is gone.
		necide treatments are recommended for our use algae treatments containing either or	outdoor pools that experience persistent algae opper or sodium bromide.
Stains	Blue/green	Copper or iron from pool equipment corrosion or water supply.	 Adjust pH and total alkalinity to ideal ranges. Vigorously brush stained areas. Add sequestrant. Run filter. Twelve hours later, [superchlorinate] [superoxidize] pool.
	Red/brown	Iron or manganese from equipment corrosion or water supply.	
	Black	Manganese in water supply.	6 Test and balance water.7 Test pool water for dissolved metals.
	Metal tarnishing	High native mineral content in water; unbalanced water.	Clean with soft cloth and mild detergent. Test water for minerals; use a sequestrant; maintain water balance.
Scale	Crusty deposits on pool surfaces.	High pH and high total alkalinity	Adjust pH and total alkalinity to ideal ranges.
		High TDS (total dissolved solids) or high hardness levels.	1 Replace a volume of pool water with water low in hardness and dissolved solids.
			2 Use sequestrant to prevent scale buildup if high hardness levels are a continuing problem.

[If you need further assistance, please call 1-800-910-4378.]

Nature² Cartridge Replacement Intervals

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[Use the month indicator ring on the top of the [cartridge] [unit]] [Monitor the cartride replacement light on the DuoClear control panel] to identify the date on which the cartridge should be replaced.] Always turn pump off prior to installing or changing [a] Nature² {the model name may be inserted aere} cartridge. Your pump/filter is operated under pressure and the pressure must be released before you begin work. Please see your pump/filter owner's manual for further instruction.

A cartridge lasts [six][(6)] [four][(4)] months or one season, whichever is shorter. The cartridge should not be used longer than [six][(6)] [four][(4)] continuous months.

{The frost-belt and sun-belt information is optional language that may be used in some but not all owner's manuals}

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

Discard your used system when you close your pool at the end of the season. Install a new system when you open your pool in the spring.]

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

Replace your Nature² cartridge every 6 months whether or not you plan to use the pool for swimming.]

Winterizing Your Pool

Use these steps as a guide. Consult your dealer for specific information [in] [on] your area.

Warm Climate

- 1 Reduce the number of hours the pump runs since the cooler weather decreases the spread of algae and other pollutants.
- There is no need to [superoxidize] [superoxidize] the pool during cool weather unless the water becomes cloudy (as may occur after a winter storm). See Cloudy Water in Troubleshooting section.

Cold Climate

- 1 Check total alkalinity and pH of pool to make sure that they are in proper balance.
- 2 Vacuum the pool bottom to remove any debris or other potential contaminants.
- 3 [Superoxidize] [Superchlorinate] the pool with chlorine according to manufacturer's instructions to clear the water.
- 4 Add a winter algaecide following manufacturer's instructions.

Important: Do not use a winter algaecide with copper in it. [This will void the Nature² no-stain warranty.]

- 5 Backwash the filter.
- 6 Drain part of the pool water. The amount to drain varies from one part of the country to another. Consult your dealer for advice.
- 7 Remove the [Nature²] [sanitizer system] cartridge and discard with household trash.
- 8 Winterize the pipes with pool antifreeze following manufacturer's instructions.
- 9 Drain the water out of all equipment (pump, filter, etc.)
- 10 Store all baskets, hoses and cleaning equipment, indoors if possible.
- 11 Cover the pool with a winter cover.

Disposal

After [six] [four] months of use, discard [Nature²] cartridge 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 pool.

{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

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{The following warranty statement(s) will not be on supplemental labels}

Limited Warranty

Nature^{2®} Limited Warranty

The limited warranties contained within this document are the only warranties given with your Nature^{2®} [insert model name] [Sanitizer] Cartridge 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 [Nature²] [Nature² G Cartridge[s]] [Nature² M Cartridge[s]] [and] [Nature² VC Cartridge[s]] [Nature² Express] [Nature² CF] [Sanitizer] [cartridge], [or one of its parts]. The Nature^{2®} warranty applies to the original owner only.

[THE LIMITED WARRANTIES OF THE [NATURE^{2®}] [Nature² G Cartridge[s]] [Nature² M Cartridge[s]] [and] [Nature² VC Cartridge[s]] [Nature² CF] [Nature² Express] [Cartridge[s]] [Inground] [SANITIZER[s]] [ARE]]:

[The] [Nature] [Nature] [Nature] G Cartridges] [Nature] M Cartridges] [and] [Nature] VC Cartridges] [Nature] CF] [Nature] Express] [Sanitizer] [cartridges] [are] [is] warranted to be free of defects in materials and to perform satisfactorily for a period of [six] [four] months from the date of purchase. Nature [insert model name] [Sanitizer] [cartridges] [are] [is] warranted not to cause copper staining in your pool. This limited warranty requires that you exercise reasonable care of your pool and keep water in balance at all times and not use a copper-based algaecide. This [limited] warranty does not cover discoloration to chromium fittings. This warranty oes not cover cartridges used with any biguanide products such as Baquacil® or Soft Swim® or any products containing Bromine or Bromine-based chemicals. If the cartridge is defective and does not perform satisfactorily for the entire [six] [four] months, we will [make a prorata rebate based on your actual period of use. You are responsible to pay the below-indicated percentage on the then applicable retail cost: <1 month-0%; 1-2 months-25%; 3-4 months-50%; 5-<6 months-75%.] [replace your cartridge.]

EXCLUSIONS FROM WARRANTY

[The] [Nature^{2®}] [Nature² G Cartridge[s]] [Cartridge[s] M] [and] [Nature² VC Cartridges] [Nature² CF] [Nature² Express Cartridge[s]] [Sanitizer] [Cartridges] [is] [are] designed for use on [inground] [and] [aboveground] pools [with cartridge filters] from [5,000 to 25,000] [5,000 to 45,000] [6,000 to 45,000] [7,000 to 45,000] [7,000 to 45,000] [7,000 to 45,000] [8,000 to 45,00

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 varranty gives you specific rights. You may have other rights that vary from state to state.

TO SUBMIT A CLAIM

Report claims to Zodiac Pool Care, Inc. by calling 1-888-537-6657. Only the original purchaser may submit a claim under this limited warranty. [All] Claims must be accompanied by an original purchase receipt.



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Cidacini (123)
1888 t., in Alexani
1888 t., in Alexani
1889 t., in Alexani
AAMSOLD
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Nature2 is a registered trademark [owned by] [of] Zodiac Pool Care, Inc.

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optional manual part numbers} [W17545] [W17510] [W17570]

{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

(optional chart(s) for Nature² cartridges}

CARTRIDGE CAPACITY

G Cartridge

10,000 - 25,000 gallons

25,000 - 35,000 gallons

35,000 - 45,000 gallons

M Cartridge

5,000 - 25,000 gallons

VC Cartridge

5,000 - 20,000 gallons

20,000 - 40,000 gallons

CARTRIDGE CAPACITY

DuoClear Cartridge 10.000 - 25,000 gallons

25,000 - 35,000 gallons

35,000 - 45,000 gallons

(additional optional language for first page)

Features Nature² Technology[†]

insert product name; with Nature² Technology

{optional language for Safety Instructions}

[Nature²] [Nature² G Cartridge[s]] [Nature² M Cartridge[s]] [and] [Nature² VC Cartridge[s]] [CF] [Express] [Cartridge[s]] [have] [has] been designed to sanitize swimming pools from [5,000 to 25,000] [5,000 - 45,000] [10,000 to 45,000] gallons [depending on cartridge model. Make sure that your Nature² [Sanitizer] Cartridge corresponds with the proper vessel and is appropriate for your pool size by consulting the chart above.]

{additional optional chart for Hayward supplementals}

This owner's manual covers the following SwimPure cartridges:

N2CN25 - For inground or aboveground pools 5,000 - 25,000 gallons

J2CN35 - For inground pools 25,000 - 35,000 [gallons]

N2CW25 - For inground or aboveground pools 5,000 - 25,000 gallons

N2CW35 - For inground pools 25,000 - 35,000 [gallons]

N2S25 - For inground or aboveground pools 5,000 - 25,000 gallons

N2S35 - For inground or aboveground pools 25,000 - 35,000 [gallons]

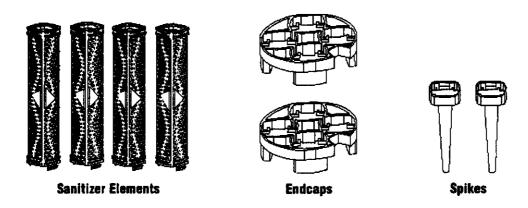
{additional optional descriptive language for Hayward supplementals}

For inground and aboveground pools with [cartridge] [sand] filters



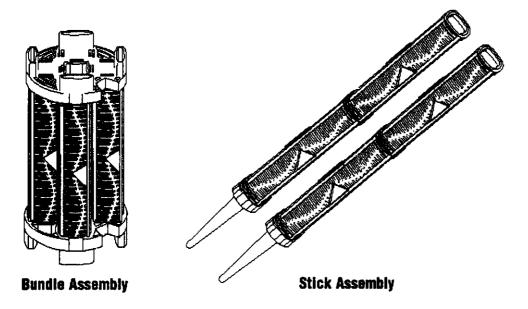
Assembly

The Nature² CF consists of 4 sanitizer elements, 2 end caps and 2 end spikes.



Depending upon the size of your swimming pool cartridge filter, these parts can be assembled as a bundle of 4 sanitizer elements, or as 2 sticks of 2 elements each.

NOTE: You should first altempt to use the bundle assembly.



Decide which Nature² CF assembly is right for your pool filter.

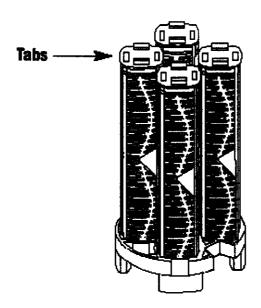
- 1 Turn off the pump and disassemble the pool filter as you normally would to clean the cartridge.
- 2 Check to see if the endcap fits easily into the core of your cartridge filter;
 - if it does, go to Bundle Assembly
 - if it does not, go to Stok Assembly

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Bundle Assembly

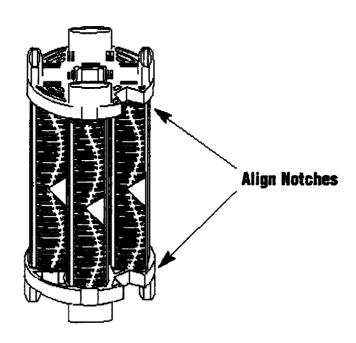
The hole in the center of the endcap accommodates a center rod should your filter have one.

1 Lay an end cap on a flat surface and snap the 4 sanitizer elements into it, so that the labs are pointing up.



2 Snap the other end cap on top.

Important: Be sure that the notch on each end cap lines up together to accommodate an air bleed tube.



{language/pictures/diagrams on this page are optional and may appear on any panel of the carton label in any combination}

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Stick Assembly

Important: Use only after attempting the Bundle Assembly.

1 Snap two sanitizer elements together so that each tab and slot line up.



2 Snap the end spike to one end.

NOTE: Once assembled, do not attempt to separate the sanitizer elements as the tabs may break.

