



# Fusion Start-Up Cartridge Installation Manual

Start-Up Cartridge for the Nature2® Fusion System


**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 a Nature2 Fusion Start-Up Cartridge. 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 Fusion System\* spend less time maintaining their pools. Every pool has its own characteristics of water type, amount of sunlight, etc. Remember, your Nature2 dealer can provide advice and service.

The Nature2 start-up cartridge provides pH buffering and reduction of excess metals from the pool water during the start-up phase. This is especially beneficial to new and freshly refinished pools. This cartridge is not necessary for the function of the Nature2 mineral sanitizing process, it is merely supplied as a convenience for the pool start-up process.

## Safety Instructions - Important Information Please read prior to installation

 <b>ATTENTION</b>	<b>Failure to heed the following can result in permanent injury, or drowning.</b>
<p><b>EQUIPMENT UNDER PRESSURE</b></p> <ul style="list-style-type: none"> <li>Always turn pump off prior to installing or changing Nature2 Fusion 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.</li> </ul>	<p><b>PREVENT CHILD DROWNING</b></p> <ul style="list-style-type: none"> <li>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 three (3) feet from the pool so children cannot use the equipment to access the pool and be injured or drown.</li> </ul>

**NOTE** This cartridge provides none of mineral sanitizing properties of the full Nature2 mineral cartridge.

## DIRECTIONS FOR USE:

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

## NATURE<sup>2</sup>® FUSION COMPATIBILITY

Nature<sup>2</sup> Fusion Systems\* can be used with all types of pool chemical treatments available **except biguanide products and copper based algaecides**.

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**Important:** When converting from a biguanide or bromide treated pool to the Nature<sup>2</sup> Fusion System, the pool must be completely drained and refilled. Then follow the Nature<sup>2</sup> Fusion cartridge start-up procedure below.

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### Start Up

- Before starting up a new Nature<sup>2</sup> Fusion cartridge, clean debris and algae out of the pool and pool equipment.

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

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- Balance pool water before installing Nature<sup>2</sup> Fusion cartridge.

- pH 7.4-7.6
- Calcium hardness 175-400 ppm
- Total alkalinity 80-120 ppm

Consult with your Nature<sup>2</sup> 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.

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**Element: pH**  
**Range:** 7.4-7.6

**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.

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**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.

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**Element: Calcium Hardness**  
**Range:** 175-400 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.

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**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.

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**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 pool surfaces.

**How to fix:** Use an alkalinity increaser.

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**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 after** water is balanced.
2. With the circulation system OFF, remove the collar from the Nature<sup>2</sup>® side of the system. If this is a newly installed system, remove and store the temporary plug supplied with the unit.
3. Insert the Nature<sup>2</sup> start-up cartridge and replace the collar.
4. Turn on pool circulation system.
5. For newly filled pools that will be using a salt water chlorinator (Nature<sup>2</sup> Fusion Soft); replace after 30 days with Nature<sup>2</sup> mineral cartridge (see chart below). For newly filled pools that will be using chlorine tablets (Nature<sup>2</sup> Fusion Inground) or for existing pools; replace after seven (7) days with Nature<sup>2</sup> mineral cartridge (see chart below).

Cartridge Size for Nature <sup>2</sup> Fusion Soft	
<b>Nature<sup>2</sup> Fusion Soft 700</b> <b>For Pools up to 12,000 gallons (up to 45,000 litres)</b>	<b>Nature<sup>2</sup> Fusion Soft 1400</b> <b>For Pools up to 40,000 gallons (up to 151,000 litres)</b>
DuoClear® 25 or Nature <sup>2</sup> Fusion 25 #W28000 (single) #W26000 (4-pack)	DuoClear 45 or Nature <sup>2</sup> Fusion 45 #W28002 (single) #W26002 (4-pack)

Cartridge Size for Nature <sup>2</sup> Fusion Inground		
<b>For Pools up to 25,000 gal</b> <b>(95,000 L)</b>	<b>For Pools up to 35,000 gal</b> <b>(135,000 L)</b>	<b>For Pools up to 45,000 gal</b> <b>(170,000 L)</b>
DuoClear 25 or Nature <sup>2</sup> Fusion 25 #W28000 (single) #W26000 (4-pack)	DuoClear 35 or Nature <sup>2</sup> Fusion 35 #W28001 (single) #W26001 (4-pack)	DuoClear 45 or Nature <sup>2</sup> Fusion 45 #W28002 (single) #W26002 (4-pack)

## Disposal

After completing start-up, discard the Nature<sup>2</sup> Fusion start-up 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.



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