



@ease®

# DEALER INFORMATION



# Put Your Customers at Ease

## FROG® @ease® with SmartChlor® Technology is Revolutionizing Hot Tub Water Care

### What is SmartChlor Technology?

A unique type of chlorine that works only with FROG minerals, giving you Fresh Mineral Water®∞



Up to **75% LESS CHLORINE\*** with no frustrating “yo-yo” chlorine levels



**SHOCK ONLY ONCE A MONTH**



**SELF-REGULATES** for continuous crystal clear water



Easy on hot tub surfaces with **LESS ODORS**



Single color match for **EASY READING** — exclusively with FROG @ease Test Strips



## SmartChlor plus FROG Fresh Minerals Creates Fresh Mineral Water<sup>∞</sup>

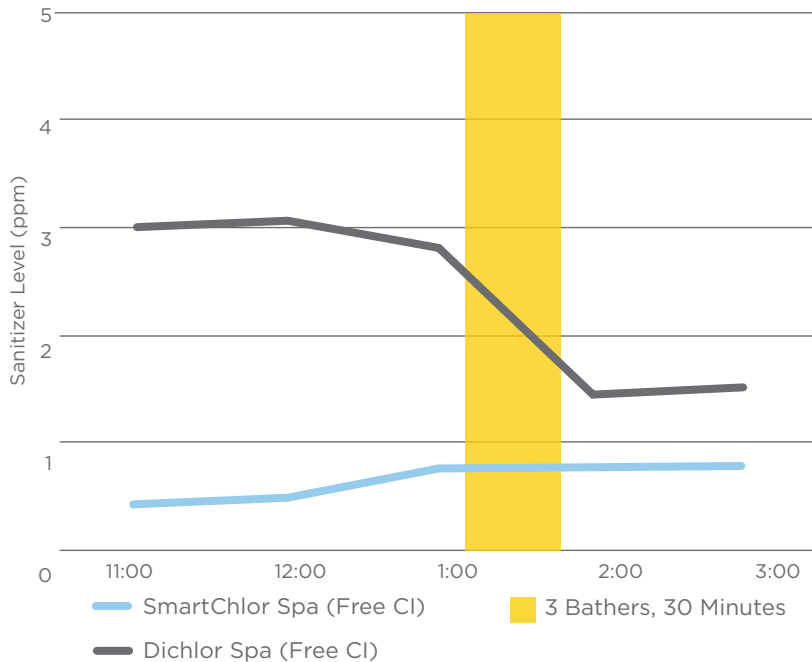
- FROG Sanitizing Minerals™ include:
  - Silver** – a proven bacteria killer
  - Calcium carbonate** – adds softness, absorbs acids and helps keep pH balanced
- Silver + SmartChlor:
  - Kills bacteria 2 ways
  - Reduces chlorine levels up to 75%\*
  - EPA registered
- Fresh Mineral Water<sup>∞</sup>:
  - Keeps hot tubs Cleaner, Clearer, Softer and Easier<sup>®</sup> to maintain



*With FROG @ease you deliver what  
no one else can: Fresh Mineral Water<sup>∞</sup>!*

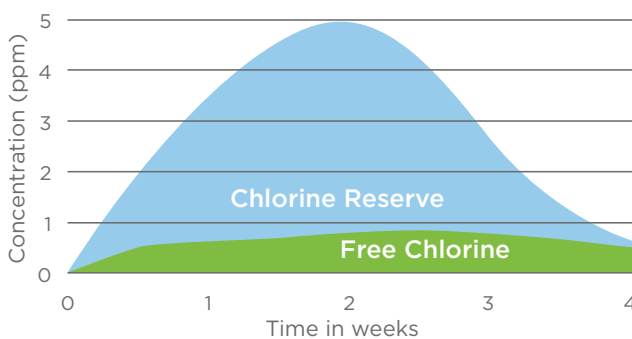
# The SmartChlor Difference

## Self-Regulating Properties of SmartChlor Technology

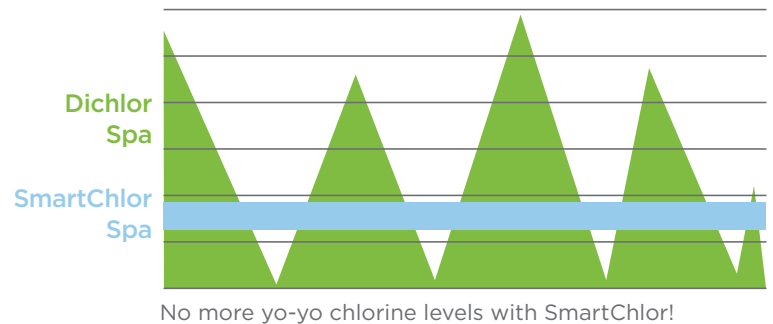


SmartChlor Technology maintains a consistently low Free Chlorine level of 0.5 - 1.0 ppm at all times. It creates a Chlorine Reserve that converts to Free Chlorine when it senses demand on the hot tub. Dichlor's Free Chlorine level drops significantly under demand requiring the user to shock. SmartChlor reduces shocking to only once a month!

## The Genius of SmartChlor



## SmartChlor vs. Dichlor



## FROG @ease is the 1st Choice of Consumers

1. It's incredibly easy because it's smart enough to do the work for them
2. The water feels silky soft, with far less odors
3. Hot tub owners feel confident leaving the hot tub for a week or more
4. Conveniently comes in 2 FROG @ease boxes for a 4-month supply
5. Comes with its own FROG @ease Test Strips and FROG Jump Start® shock

# Start-Up & Basic Operation Tips

1

If previously using bromine, biguanides or if the cyanuric acid level is above 80 ppm, drain, rinse and refill the hot tub. Otherwise proceed to Step 2.

2

Test the water with FROG @ease Test Strips and balance according to the Water Balance Guidelines.

### Water Balance Guidelines

Total Alkalinity..... 80 - 120 ppm  
 pH..... 7.2 - 7.6  
 Total Hardness..... 150 - 250 ppm

PLUS, a convenient Out Indicator reading for SmartChlor.



3

Shock the hot tub with FROG® Jump Start® to achieve a start-up level of chlorine.



4

Connect the blue Mineral Cartridge to the silver SmartChlor Cartridge and twist to lock.

BLUE  
FROG @ease  
Mineral Cartridge



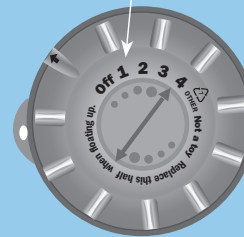
SILVER  
FROG @ease  
SmartChlor Cartridge



5

Set the dial on the bottom of the silver SmartChlor Cartridge per the setting chart.

Setting # on the silver SmartChlor Cartridge



### SmartChlor Cartridge Settings

Gallons	Setting #
200-299	1
300-450	2
451-550	3
551-600	4

6

Place in the hot tub and enjoy weeks of Fresh Mineral Water™.



7

Test weekly with FROG @ease Test Strips. When the FROG @ease system flips over, replace the silver SmartChlor Cartridge; it lasts 3-4 weeks depending on hot tub size and use.

Please recycle SmartChlor Cartridge, if possible.



8

Shock the hot tub with FROG Maintain® once a month, or when replacing your silver SmartChlor Cartridge.



# Product Q&A

## 1. What is FROG® @ease?

FROG @ease is a brand of hot tub sanitizing systems that feature FROG Sanitizing Minerals and FROG's breakthrough innovation — SmartChlor Technology. The result is Fresh Mineral Water® that's Cleaner, Clearer, Softer and Easier® than standard hot tub treatments with up to 75% less chlorine\* and far less work by shocking only once a month.

## 2. Is it okay for the FROG @ease Floating System to tilt in the water?

The FROG @ease Floating System may float in the water at a slight tilt or on its side - this is perfectly normal! It will flip completely upside down when it's empty. You can always test your water with a FROG @ease Test strip to ensure water levels are in the ideal range.

## 3. What is SmartChlor Technology?

It is a time-released chlorine that knows when there is a demand on the hot tub and automatically delivers the sanitizing power to meet that demand. That's why it's Smart. It also maintains a consistent Free Chlorine level of only 0.5 - 1.0 ppm for softer water, less odors and no bleaching suits or surfaces. It works only with FROG Sanitizing Minerals, together, they create Fresh Mineral Water in your hot tub.

## 4. How does SmartChlor work?

SmartChlor creates a Chlorine Reserve in the water when the Cartridge is first used. When people get into the hot tub, SmartChlor goes to work converting the Chlorine Reserve to Free Chlorine, which takes care of the demand. This is why we call it self-regulating. SmartChlor naturally maintains a low Free Chlorine level of 0.5 - 1.0 ppm as long as you use FROG Sanitizing Minerals, the SmartChlor Cartridge isn't empty and the water is balanced.

## 5. What is the Synergy of FROG Minerals and SmartChlor Technology?

SmartChlor has a unique effect on the silver, which increases its solubility in the water, ultimately making it more effective at killing bacteria. EPA accepted SmartChlor as a recreational water sanitizer at a Free Chlorine level of 0.5 ppm, only when used in conjunction with FROG Sanitizing Minerals.

## 6. How does it minimize shocking to just once a month?

Because SmartChlor's unique technology automatically converts the Chlorine Reserve, which we'll consider "Total Chlorine," into Free Chlorine, the formation of chloramines is drastically reduced, so there's no need to shock when the Total Chlorine and Free Chlorine readings are different. It's almost like it's self-shocking during this conversion process. Therefore, we recommend shocking only when replacing a SmartChlor Cartridge — about every 3-4 weeks, depending upon use.

## 7. Will this Chlorine Reserve show up on any other test strip?

Yes. It can be seen as Total Chlorine. Unlike dichlor, this Total Chlorine reading will never match the Free Chlorine reading until the Cartridge is empty. Instead the Total Chlorine reading for SmartChlor will decrease over the 3-4 week life of the Cartridge. To avoid confusion, we recommend using only FROG @ease Test Strips for these FROG @ease customers.

## **8. Are there any negative effects of sitting in a Chlorine Reserve?**

No. This product passed many stringent tests to be registered by the EPA for effective use in hot tubs.

## **9. How high will the Total Chlorine level reach at its peak?**

On any other test strip you would expect to see an average Total Chlorine reading of 7 - 15 ppm. On the FROG @ease Test Strip, the SmartChlor Out Indicator color block represents 3.0 ppm Total Chlorine. When the Out Indicator color block is lighter than the Out Indicator on the bottle, the SmartChlor Cartridge should be replaced.

## **10. Has this product been field tested?**

Yes. We conducted significant testing with this product. Testers noticed several key benefits, including clearer water, far less shocking, a significant reduction in odors and a softer feel to the water. Plus, it's so much easier to maintain.

## **11. How are the odors reduced?**

It starts with maintaining a lower Free Chlorine residual of 0.5 - 1.0 ppm than standard dichlor hot tubs, which require 2.0 - 4.0 ppm of Free Chlorine. SmartChlor's unique properties combined with FROG Sanitizing Minerals reduce the formation of chloramines, which are the odor causing agents that require shocking to remove.

## **12. Can the Free Chlorine ever be higher or lower than 0.5 - 1.0 ppm?**

SmartChlor's chemical equilibrium state in water is pH dependent. Free Chlorine tends to be higher with lower pH and lower with high pH. Maintain a pH of 7.2 - 7.6 to keep the chlorine level consistently at 0.5 - 1.0 ppm.

## **13. What causes the minerals to get used up or lose its effectiveness?**

FROG Sanitizing Minerals include limestone, which is thinly coated with silver chloride. Silver ions erode off the limestone until saturation is reached in the water. More silver ions are released only as needed for the life of the 4-month Cartridge. The limestone helps buffer pH and does not dissolve completely, which makes up the majority of the product's weight — that is what you can hear inside after the 4-month period.

## **14. Are FROG Sanitizing Minerals and SmartChlor Technology compatible with ozone, UV or other common hot tub treatments?**

Yes, they are compatible if desired. However, FROG @ease is considered a complete sanitizing system for hot tubs that needs only an occasional shock treatment.

## **15. How does SmartChlor affect pH or Total Alkalinity?**

Although SmartChlor naturally has a low pH, because it is slow dissolving it does not have an immediate effect in a hot tub with recommended Total Alkalinity to buffer it. The pH tends to rise due to hot tub aeration. As the user adds pH down this can drive the Total Alkalinity down, requiring an occasional addition of alkalinity.

## **16. Can you convert to FROG @ease without draining the hot tub?**

Yes, if dichlor was used previously in the hot tub. If using bromine, biguanides or the CYA level is 80 ppm or more, you need to drain and refill the hot tub before using FROG @ease.

# Water Testing the FROG @ease Way

Because the FROG @ease products with SmartChlor Technology do not test the same way as dichlor, we recommend using only FROG @ease Test Strips, they are user tested for clarity and ease of use.

## With FROG @ease Test Strips:

- One color match designates an Out Indicator. When lighter than this color, replace the SmartChlor Cartridge.
- Since the Free Chlorine remains consistently at 0.5-1.0 ppm there is no need to test for it.
- FROG @ease Test Strips also test for pH, Total Alkalinity and Total Hardness.

## If Using Any Other Test Strip, Keep in Mind:

### 1. Like all other hot tubs, water should be balanced properly.

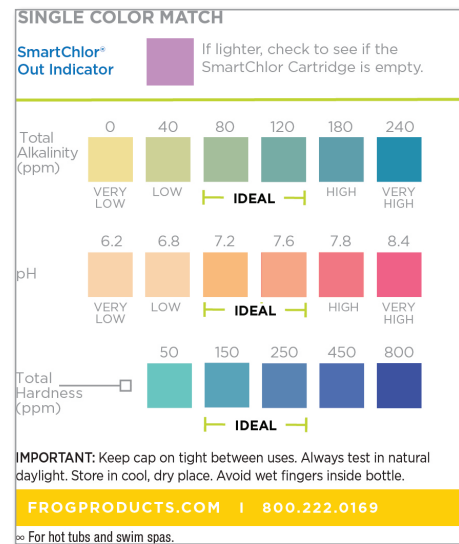
- pH should be 7.2 - 7.6
- Total Alkalinity should be 80 - 120 ppm
- Total Hardness should be 150 - 250 ppm

### 2. Total Chlorine will always be higher than Free Chlorine until the Cartridge is empty.

- SmartChlor Technology has a Chlorine Reserve that reads as Total Chlorine.
- This Chlorine Reserve starts out at higher than normal hot tub chlorine levels and slowly depletes over the 3-4 week life of the Cartridge.

### 3. The Free Chlorine reading maintains an equilibrium state of 0.5 - 1.0 ppm.

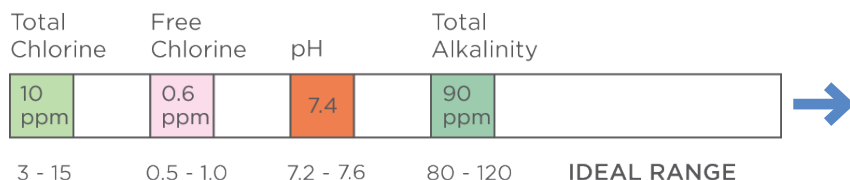
- As long as the water is balanced, a FROG @ease Mineral Cartridge is being used (not longer than 4 months) and the FROG @ease SmartChlor Cartridge is not empty, the Free Chlorine level will stay consistently within 0.5 - 1.0 ppm.
- The Chlorine Reserve is continuously converting to Free Chlorine to meet the hot tub demand.





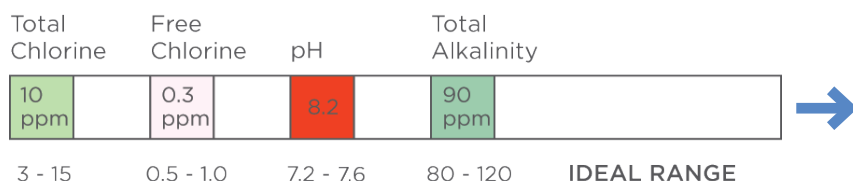
With other test strips, it's possible to get both a Total Chlorine and a Free Chlorine reading, which could be confusing for your customers. That's why we recommend using FROG @ease Test Strips with a simple one color test for chlorine. To understand how this technology works using any other test strips, please see the 3 scenarios below:

## SCENARIO #1 with Standard Test Strips



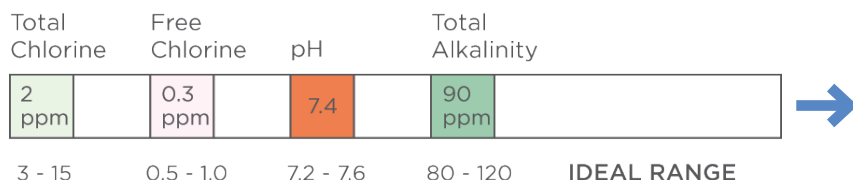
Everything is fine, no action is needed.

## SCENARIO #2 with Standard Test Strips



The Free Chlorine residual is low and the pH is too high.  
  
Add "pH Down" to bring the pH into the 7.2 - 7.6 range. The Free Chlorine residual will come back up to 0.5 after the pH adjustment is made.

## SCENARIO #3 with Standard Test Strips



The Total Chlorine and Free Chlorine are low.  
  
The SmartChlor Cartridge needs to be replaced and it's time to shock the hot tub with FROG Maintain®, a non-chlorine shock.



For a helpful water balance infographic, visit [frogproducts.com](http://frogproducts.com). To order FROG @ease Test Strips see your distributor.

FROG @ease Test Strips  
**01-14-3350**

# Troubleshooting Tips

Consumers tell us the FROG @ease System is the easiest water care system they have ever used. The key is to maintain water balance and make sure you replace the FROG @ease SmartChlor Cartridge when it's empty. Here are a few tips if you experience the following issues:

## Cloudy Water

### 1. Check your water balance

- If your pH or Total Alkalinity is off, SmartChlor will not be as effective.

### 2. Check to see if your FROG @ease SmartChlor Cartridge is empty

- Remove the SmartChlor Cartridge from the holder and drain all the water.
- Shake the Cartridge slightly to determine if any SmartChlor residual is left inside.

### 3. Increase the dial setting if needed

- If the FROG @ease SmartChlor Cartridge is not empty turn the dial up one setting, while maintaining water balance.

### 4. Make sure the Mineral Cartridge has not been used for more than 4 months

- When you hear minerals left inside, it is because one of the minerals, limestone, does not completely dissolve. Silver, the mineral that fights bacteria, lasts only 4 months, so you must replace the Mineral Cartridge at that time. SmartChlor will only be effective when used with active FROG Sanitizing Minerals.

## Over-Chlorination

1. This is virtually impossible with the FROG @ease System due to the self-regulating process that converts the Chlorine Reserve to Free Chlorine automatically when needed.
2. When testing SmartChlor with any other test strip you will see the Total Chlorine is higher than the Free Chlorine. That is perfectly OK. The Total Chlorine is the SmartChlor Reserve that is inactive. When the hot tub needs more Free Chlorine to kill bacteria, it pulls from the SmartChlor Reserve. Therefore, no shocking is required when the Total Chlorine reading is different than the Free Chlorine reading.
3. To prevent confusion, always recommend FROG @ease Test Strips. A 4-month supply comes with every FROG @ease Sanitizing System.

## Under-Chlorination

Please see the steps to eliminate cloudy water, they are the same steps for this issue.

## Cartridge Life

The life of the FROG @ease SmartChlor Cartridge is typically 3-4 weeks, depending upon use. Keep in mind that hot tubs over 400 gallons with significant bather load require a higher dial setting. The higher the setting, the shorter the Cartridge life.

# Dealer Training



FROG @ease products feature innovative technology that will be new to your sales staff. Have them take just 15 minutes at [partners.kingtechnology.com](http://partners.kingtechnology.com) to learn how to effectively sell FROG @ease.

When you first click on the training you will get a short tutorial on Fresh Mineral Water<sup>®</sup>. This is the value proposition behind all FROG products. After that finishes, click on FROG @ease.



**COMPLETE THE TRAINING TO RECEIVE  
A FREE POLO SHIRT.**

# Planogram

## FROG @ease Floating System



FROG @ease  
Floating System  
**01-14-3256**



FROG @ease  
SmartChlor Cartridge  
3-pack  
**01-14-3258**



FROG  
Jump Start  
**01-14-6012**



FROG  
Maintain  
**01-14-6132**



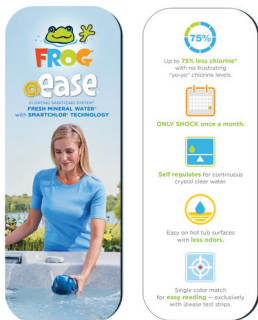
FROG @ease  
Test Strips  
**01-14-3350**

# POP Materials

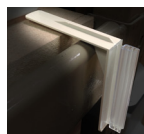
Order these free materials at [partners.kingtechnology.com](http://partners.kingtechnology.com) or call 800-222-0169



FROG @ease Counter Display  
**03-01-2063**  
(11"W x 16.75"H)



FROG @ease Floating System Aisle Violator  
**20-48-2131**  
(4"W x 11"H)



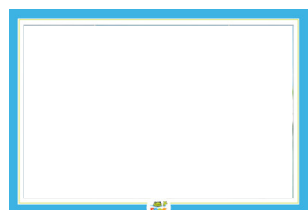
Use with clip options:  
**20-48-2128**



**20-48-2129**



FROG @ease Shelf Liners  
**20-48-0668**  
(4"W x 24"H)



FROG Countermat Holder  
**20-48-0664**  
(13"H x 19"W)



FROG @ease Floating System Insert  
**20-48-0296**

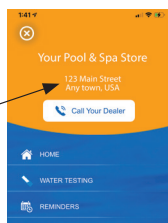
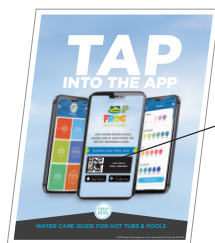


FROG Hot Tub Products Brochure  
**20-48-0670**  
(8.5"W x 11"H)



FROG @ease Self-standing Display  
**03-01-2051**  
(19.25"L x 11.25"W x 64.5"H)

CUSTOM QR CODE PRELOADS YOUR STORE INFORMATION



Custom QR Code Customized for your store-Tap into Your App Flyer  
Flyer (Available electronically):  
**20-48-2144**  
(8.5"W x 11"H)

Order your FREE custom QR code at [partners.kingtechnology.com](http://partners.kingtechnology.com)



FROG @ease Bag Stuffer  
**20-48-2113**  
(4"W x 6"H)



FROG Jump Start & Maintain Dangler  
**20-40-0685**  
(8"W x 4.5"H)

# Tips For Showroom Hot Tubs

Showroom hot tubs are different than consumer hot tubs for many reasons including:

- Water temperature
- Chlorine
- pH levels
- Cover use



## Dynamics of a Showroom Hot Tub

- pH tends to rise at a higher rate in a showroom hot tub due to the factors shown in the illustration.
- Since a high pH inhibits the formation of Free Chlorine in a FROG @ease hot tub, proper water balance is key.
- Unlike a showroom tub on dichlor, you cannot compensate for high pH by adding more SmartChlor, so the use of a pH decreaser is necessary to bring the pH within the recommended range shown in Tip #1.

① Maintain pH and Total Alkalinity at the lower end of the range (7.2 - 7.6 and 80 - 100 ppm respectively).

② Keep the temperature lower (80F-90F). This helps keep the heater from coming on as often. At lower temperatures, use the revised setting chart (below) to dial in the Silver SmartChlor Cartridge.

③ Keep the air controls turned off to minimize pH rise and cover the hot tubs at night to cut down on evaporation and heat loss.

④ Use FROG Maintain non-chlorine shock once a month or when you replace the SmartChlor Cartridge.

SmartChlor Cartridge Settings		
Gallons	Showroom	Consumer
200-299	2	1
300-450	3	2
451-550	4	3
551-600	4	4

⑤ Replace the SmartChlor Cartridge when empty and the complete System every 4 months.



LEARN MORE AT [PARTNERS.KINGTECHNOLOGY.COM](https://partners.kingtechnology.com) | 800.222.0169