

freshwater® IQ

H2KNOW

THE
HotTub
CREW
Delivering Wellness



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HOT TUB BASICS

How to Operate Jets



JET PUMPS

All hot tubs have usually at least one 2 speed pump. Press the jet bottom once to get low speed. Twice to get high speed. If you have a second or third pump. Hit the jet button a third time to turn on the second pump. To turn off press one more time shuts off pump one and a second time to shut off all pumps.



DIVERTER VALVES

You can adjust the amount of water that is moving through the jets by adjusting the big diverter valves.

You can adjust the amount of air going through a jet by moving the smaller air valves. This makes the massage more or less intense.



JET COLLAR

Larger jets can be adjusted by actually turning the outside of the jet. You can increase, decrease and even turn individual jets off by rotating the outside collar of the jet

HOT TUB BASICS

Hot Tub Features

TEMP LOCK

Great if you have guest that love to push button

SPA LOCK

When activated, the Spa Lock feature disables all functions on the control panel.

AUTO CLEAN

Set the jets to run for 10 minutes. Great to use after getting out of the hot tub, forcing everything to the filter and is a great timer "snooze" button when you need to watch the time

ENERGY SAVING MODE & SUMMER TIMER

NEVER TURN ON!!! Both heater and circ pump turn off for 6 hours. This mode allows you to save energy by shutting off the heater at two predetermine times of the day for up to 6 hours on each setting.

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OWNERS MANUALS

Owner's Manuals QR Code



Caldera Spas link

<https://www.combinedpoolandspa.com/caldera-spas-owners-manual/>



Dolce Vita Spas link

<https://waves-console-watkins-wellness.s3.amazonaws.com/products/146586/OwnersManual305331.24AWLA60HzDPS.pdf>
/



Freeflow spas

[https://www.combinedpoolandspa.com/freeflow-spas-owners-manual/freeflow Spas link](https://www.combinedpoolandspa.com/freeflow-spas-owners-manual/freeflow%20Spas%20link)



Hot Spring Spas link

<https://www.hotspring.com/owners/manuals-and-resources#highlife-collection-manuals> Spas link

FILTER CYCLES VACANZA & HOT SPOT

Filter cycles should be set @ 3:00



FILTER CYCLES

When the spa is first powered up, the automatic filter cycle will wait 10 minutes before starting. Your spa will automatically turn the first filter cycle on for 60 minutes on low speed. The second filter cycle will activate for 30 minutes, 12 hours later. The filter cycle icon, F1 or F2 will be displayed in the control panel during the filter cycle.

NOTE: When using @ease SmartChlor, the initial recommended minimum filter cycle setting is 2 hours 30 minutes, twice a day (5 hours total). You may adjust this setting based on your bather load.

NOTE: The optional ozone system only works during the filter cycle.

To modify the length of either filter cycle:

- Press the MODE (▲ or ▼) button until the TOOLS menu is displayed.
- Press the (+) button to enter the TOOLS submenus.
- Press the MODE (▲ or ▼) button until FILT1 or FILT2 is displayed.
- Press the (+) button to enter FILT1 or FILT2. F1 or F2 icon will flash.
- Using the (+) or the (-) button, adjust the desired filter cycle time, from 0 to 6 hours.
- Press the MODE (▲) button in FILT1 to go to the RESET screen. Press the (+) button if you want to reset the filter 1 starting time to the current time or press the MODE (▲) button to go the the EXIT screen. Press the (+) button in the EXIT screen to go to the FILT2 screen.



The filter cycle will activate the jet pump on low speed for the entire cycle. When activated, the filter cycle icon on the display is turned on. If the temperature exceeds the set point by three degrees F for more than three hours, the system will cancel the filter cycle for the remaining filter cycle time. Should the temperature cool down to 1.5 degrees F (1 degree C) below the set point before the end of the cycle, the cycle will resume for the rest of the time. Should you use the spa during the filter cycle by placing the jet pump on high speed, the Filter icon and Jets icon will be on. Once the jet pump has been shut off, a ten minute tranquil mode begins (Filter & Jet icons are off during tranquil mode while F1 or F2 remain lit). The Filter and Jet icons will come back on once the tranquil mode ends if the filter cycle timer is still on.

Turn Up Filter Cycles on
non-circ pump Tubs

FILTER CYCLES DOLCE VITA

Turn Up Filter Cycles on non-circ pump Tubs

Filter cycles should be set @ 3:00

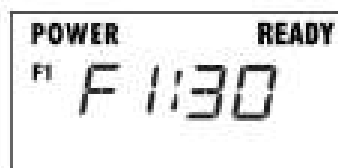
FILTER CYCLES

When the spa is first powered up, the automatic filter cycle will wait 10 minutes before starting. Your spa will automatically turn the first filter cycle on for 60 minutes on low speed. The second filter cycle will activate for 30 minutes, 12 hours later. The filter cycle icon, F1 or F2 will be displayed in the control panel during the filter cycle.

NOTE: The optional **FRESHWATER** III ozone system only works during the filter cycle.

To modify the length of either filter cycle:

- Press the MODE (▲ or ▼) button until the TOOLS menu is displayed.
- Press the (+) button to enter the TOOLS submenus.
- Press the MODE (▲ or ▼) button until FILT1 or FILT2 is displayed.
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The filter cycle will activate the jet pump on low speed for the entire cycle. When activated, the filter cycle icon on the display is turned on. If the temperature exceeds the set point by three degrees F for more

CLEAN YOUR FILTERS

#1 Service Call is a dirty filter



CLEAN YOUR FILTERS

#1 Service Call Pro Tips



HAVE AN EXTRA SET

It's always a good idea to have an extra set of filters or even two for the winter months. Always have a clean filter for the circulation pump. Dirty filter is our number one service call.

HAVE A WAY TO CLEAN INSIDE

If you have a utility sink awesome! If not a collapsible hose and a \$# sink adapter from Ace Hardware are life safer.

WORST CASE SCENARIO

You can always hook a hose to the washing machine faucet and clean them that way. Bathtub or kitchen hose sprayers are not enough pressure.

FILLING THE HOT TUB

Pro Tips

FILLING TUB

When filling tub from and empty state. Put hose in the filter stand pipe and fill to bottom of pillows. This is necessary to avoid air locks and service calls.



TOPPING OFF WATER

When topping off add water in footwell so you don't go into protection mode.

NEVER TURN POWER ON UNTIL FULL

Never Ever turn hot tub power on until tub is completely full. Make sure you turn off breakers before draining your tub.





ON-THE-GO CARE

Pro Tips



Filling Spa: STEP ONE

Fill spa $\frac{3}{4}$ full with the on-the-go portable softener, fill the tub with softener through the filter compartment. Remove grey filter cap and place hose inside grey filter standpipe. After tub Reach $\frac{3}{4}$ full disconnect the softener and fill the remainder with just the hose.

After fill is complete click the link below for instructions on how to regenerate your On The Go softener for the next usage.

How to recharge your softener video

<https://www.youtube.com/watch?v=LBBewXRNW2c>



Please store your On The Go Softener Indoors to avoid freezing.

Balance Water: STEP TWO: IMPORTANT!

YOUR SALT SYSTEM WILL NOT WORK OUTSIDE OF THESE RANGES

Test your water using a FreshWater 5-way test strip. Review pH, Alkalinity, and calcium hardness levels to determine if your water is in OK range for the Salt System and adjust as needed.

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Step 1

TEST WATER



WATER BALANCE

Step 1

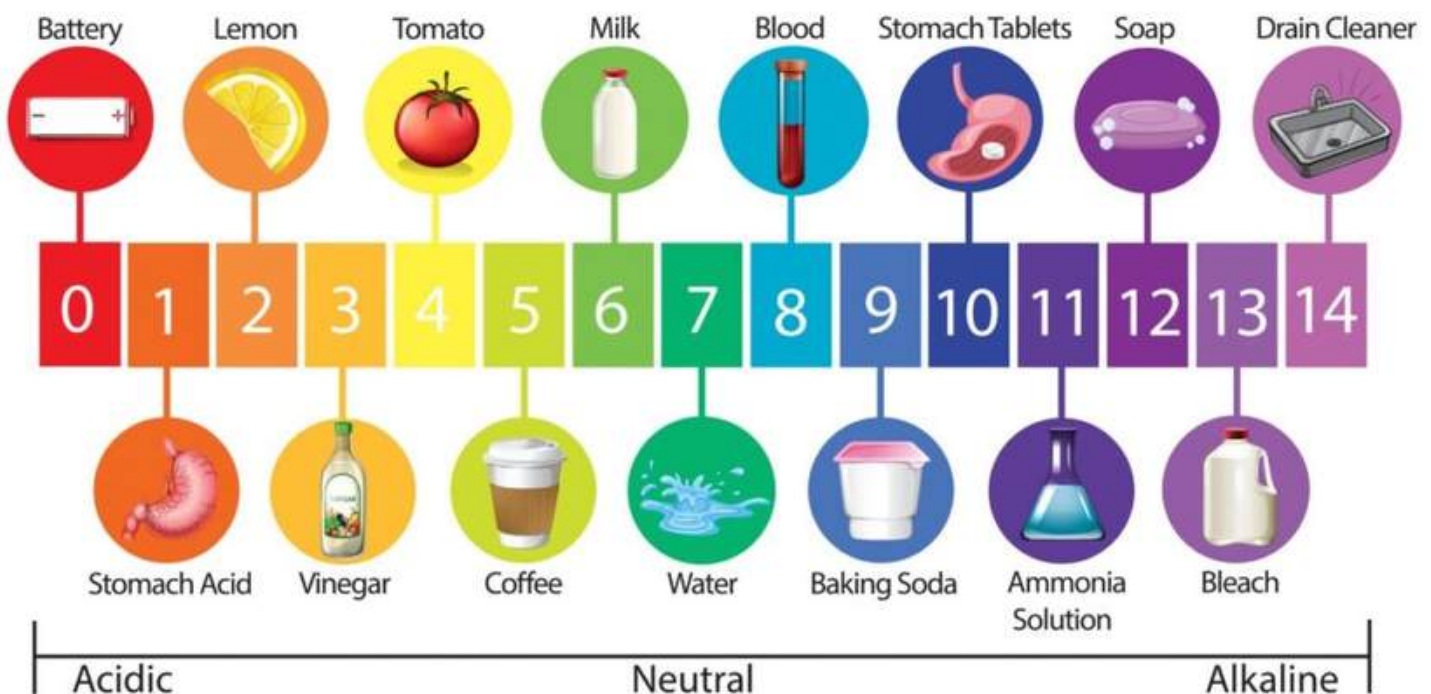
BALANCE WATER

Alkalinity 80-120 ppm
pH 7.6

Any hot tub no matter
what system you are on

WATER BALANCE

The pH Scale



WATER BALANCE

CHEMICAL DOSAGE CHARTS TO BALANCE PH & ALKALINITY

Wait 24 hours before testing. The dosages in this chart are based on the water care product available at the time of printing. Always follow package directions.

TO RAISE ALKALINITY

Use Alkalinity Increaser. SpaGuard Total Alkalinity Increaser is recommended.

- » Use an accurate test method to determine the alkalinity of water.
- » Using chart on page 2 and the alkalinity test results determine the required amount of Total Alkalinity Increaser needed to adjust the alkalinity to maintain a reading of 150 ppm.
- » With pump running on high speed pour the required amount directly into the filter compartment continue pump running for 30 minutes.
- » Wait 24 hours to test and readjust.

TO LOWER ALKALINITY

Use pH Decreaser. SpaGuard pH Decreaser is recommended.

- » Use an accurate test method to determine the alkalinity of water test pH daily.
- » If it drops below 7.2 raise the pH page 4 Using chart on page 3 and the alkalinity test results determine the required amount of pH Decreaser needed to adjust the alkalinity to maintain a reading of 150 ppm. It is important to do this daily and not do more than one dose per day.
- » With pump running on high speed pour the required amount directly into the filter compartment continue pump running for 30 minutes
- » Wait 24 hours to test and readjust.

WATER BALANCE

AMOUNT OF ALKALINITY INCREASER NEEDED TO RAISE ALKALINITY

Wait 24 hours before testing. Always follow package instructions.

Spa Gallons	25ppm	50ppm	75ppm	100ppm	120ppm
100 Gallons	1Tbs	2Tbs	3Tbs	4Tbs	5Tbs
200 Gallons	2Tbs	4Tbs	6Tbs	8Tbs	9.5Tbs
250 Gallons	2.5Tbs	5Tbs	7.5Tbs	10Tbs	11.5Tbs
300 Gallons	3Tbs	6Tbs	9Tbs	12Tbs	15Tbs
400 Gallons	4Tbs	8Tbs	12Tbs	16Tbs	20Tbs
500 Gallons	5Tbs	9Tbs	13Tbs	17Tbs	21Tbs



WATER BALANCE

AMOUNT OF PH DECREASER NEEDED TO LOWER ALKALINITY

If pH Drops below 7.2 add pH Increaser Dosages are per day. Test water daily Adjust accordingly.

Spa Gallons	25ppm	50ppm	75ppm	100ppm	120ppm
100 Gallons	.5 Tbs For 5 Days	.5 Tbs for 9 Days	.5 Tbs for 13 Days	.5 Tbs for 15 Days	.5 Tbs for 17 Days
200 Gallons	1 Tbs For 5 Days	1 Tbs For 9 Days	1 Tbs For 13 Days	1 Tbs For 15 Days	1 Tbs For 17 Days
250 Gallons	2 Tbs for 4 Days	2 Tbs for 8 Days	2 Tbs for 11Days	2 Tbs for 13 Days	2 Tbs for 15 Days
300 Gallons	2 Tbs for 5 Days	2 Tbs for 9 Days	2 Tbs for 12 Days	2 Tbs for 14 Days	2 Tbs for 16 Days
400 Gallons	2.5 Tbs for 5 Days	2.5 Tbs for 9 Days	2.5 Tbs for 13 Days	2.5 Tbs for 15 Days	2.5 Tbs for 17 Days
500 Gallons	3 Tbs for 5 days	3 Tbs for 9 days	3 Tbs for 13 days	3 Tbs for 15 days	3 Tbs for 17 days



WATER BALANCE

CHEMICAL DOSAGE CHARTS TO BALANCE PH & ALKALINITY

Wait 24 hours before testing. The dosages in this chart are based on the water care product available at the time of printing. Always follow package directions.

TO RAISE PH

Use pH Increaser. SpaGuard pH Increaser is recommended

- » Use an accurate test method to determine the pH.
- » Using chart on page 4 and the pH test results determine the required amount of pH Increaser needed to adjust the pH to maintain a reading of 7.2 to 7.6.
- » With pump running on high speed pour the required amount directly into the filter compartment continue pump running for 30 minutes.
- » Wait 24 hours to retest pH and adjust as necessary.

TO LOWER PH

Use pH Decreaser. SpaGuard pH Decreaser is recommended.

- » Use an accurate test method to determine the pH.
- » Using chart on page 5 and the pH test results determine the required amount of pH Decreaser needed to adjust the pH to maintain a reading of 7.2 to 7.6.
- » Be sure alkalinity is at least 100 ppm before adding pH Decreaser.
- » With pump running on high speed pour the required amount directly into the filter compartment continue pump running for 30 minutes.
- » Wait 24 hours to retest pH and adjust as necessary.

WATER BALANCE

AMOUNT OF PH INCREASER NEEDED TO RAISE PH

Wait 24 hours before testing. Always follow package instructions.

Spa Gallons	Less than 6.8 pH	7.0 pH	7.2pH	7.3 pH	7.4 pH
100 Gallons	3.5 Tsp	3 Tsp	2 Tsp	.5 Tbs	Not Needed
200 Gallons	3.5 Tsp	3 Tsp	2 Tsp	1 Tsp	Not Needed
250 Gallons	4 Tsp	2.5 Tsp	3.5 Tsp	1.5 Tsp	Not Needed
300 Gallons	4.5 Tsp	4 Tsp	3 Tsp	1.5 Tsp	Not Needed
400 Gallons	5 Tsp	6 Tsp	4 Tsp	2 Tsp	Not Needed
500 Gallons	8 Tsp	7 Tsp	5 Tsp	2.5 Tsp	Not Needed



WATER BALANCE

AMOUNT OF PH DECREASER NEEDED TO LOWER PH

Wait 24 hours before testing. Always follow package instructions.

Spa Gallons	7.2 - 7.6 pH	7.6 - 7.8 pH	7.8 - 8.0 pH	8.0 - 8.4 pH	Above 8.4 pH
100 Gallons	Not Needed	.25 Tsp	.5 Tsp	.75 Tbs	1 Tbs
200 Gallons	Not Needed	.5 Tsp	.75 Tsp	1.5 Tsp	2 Tbs
250 Gallons	Not Needed	.5 Tsp	1.5 Tsp	2.0 Tsp	2.5 Tbs
300 Gallons	Not Needed	.5 Tsp	2 Tsp	2.5 Tsp	3 Tbs
400 Gallons	Not Needed	.75 Tsp	1.5 Tsp	3 Tsp	3.5 Tbs
500 Gallons	Not Needed	1 Tsp	2 Tsp	3.75 Tsp	4.5 Tbs



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WATER BALANCE

step 1-A

BALANCE WATER HARDNESS

Spa Frog 50-100
Keep in solution with
Stain & Scale Control
3oz Weekly



WATER BALANCE

step 1-A

BALANCE WATER HARDNESS



Freshwater Salt 75ppm
or lower

Use On The Go or
Vanishing Act

FROG @EASE

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNER'S MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6
 - (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4
 - (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Bring water test in monthly.
- Clean filter monthly.

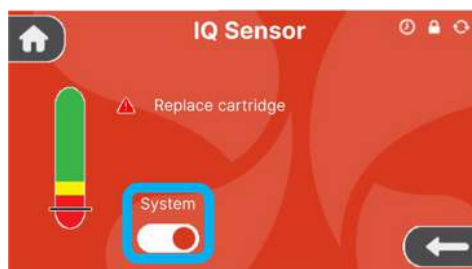
drain clean & refill

EVERY 3-4 MONTHS

FRESHWATER SALT

Ideal setting & range

- Alkalinity 80-120
- pH 7.6
- Hardness below 75 ppm
- Salt 1750-2100
(do not overdose salt)
- Salt System set at 7
- Chlorine must be at 3 ppm before turning on sensor (*usually takes 3-4 days*)
- does not need filter cycle adjustment



FRESHWATER SALT

Pro Tips:

Phosphates should be
below 300PPB

(Use Phosphate Remover Sparingly)

Do Not use shock in a
salt water hot tub.

Use Chlorine if needed



FRESHWATER SALT



Salt Dosage by Spa Gallons

Always start 1.5 less cups and adjust 24 hours later

Model	Gallons	Cups of Salt
Cantabria	615	13 3/4
Geneva	410	9 1/4
Niagara	400	9 1/4
Tahitian	375	8 1/2
Florence	360	8 1/4
Ravello	230	5
Makena	395	9
Salina	420	9 3/4
Reunion	350	8
Seychelles	330	7 1/4
Martinique	285	6 1/2
Kauai	230	5

FRESHWATER SALT



Salt Dosage by Spa Gallons

Always start 1.5 less cups and adjust 24 hours later

Model	Gallons	Cups of Salt
Grandee	450	10 1/4
Envoy	390	8 1/4
Aria	352	8
Vanguard	335	7 1/2
Soverign	315	7 1/4
Prodigy	290	6
Jetsetter	200	4 1/2
Jetsetter LX	210	4 1/2
Prisim	525	12
Pulse	445	10 1/4
Flash	360	8 1/4
Flair	335	7 1/2
Beam	295	7

START-UP GUIDE

FreshWater Salt System + Smart Monitoring System

DAY 1A

- 1) Hook Up Electrical (refer to Pre-Delivery Guide for Specifications).
- 2) Fill hot tub (through filter compartment; fill level between pillows and top of jets).
- 3) Power hot tub at breaker box.

DAY 1B

- 1) Turn OFF Smart Monitoring System on the control panel.
- 2) Follow FreshWater Salt System start-up instructions.

DAY 2-3

- 1) Salt level is stable at 1,750-2,200 ppm.
 - 2) Chlorine is stable at 3-5 ppm.
- *Repeat this step daily until both are in range and stable.*

DAY 4

- 1) Turn ON Smart Monitoring System at the control panel.
- 2) Wait 24 hours for readings to be accurate.

DAY 5

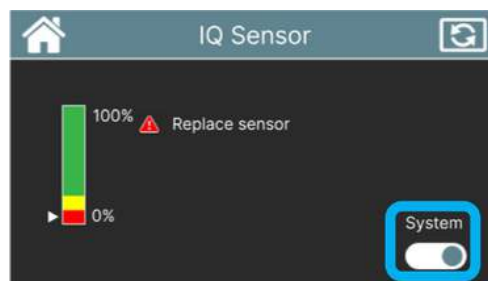
Use Smart Monitoring System to monitor: Chlorine Level, pH Level and Salt Status.

Sensor Health - Lasts approximately 12 months

Cartridge Health - Lasts approximately 4 months



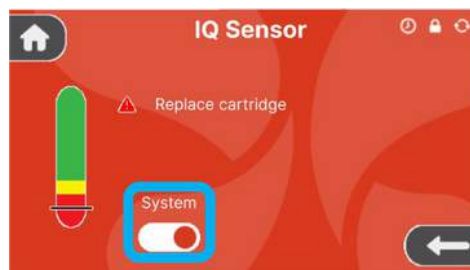
Turning the Smart Monitoring System ON/OFF



- 1 Press "Water Droplet" Icon
- 2 Press the "Sensor" Bar
- 3 Toggle "System" to "ON/OFF" Position (Bottom Right Corner)



- 1 Press "Options" Button
- 2 Press "Water Care" Button
- 3 Press "Next" Button
- 4 Press "Sensor" Button
- 5 Toggle "System" to ON/OFF Position



- 1 Press "Water Droplet" Icon
- 2 Press the "Sensor" Bar
- 3 Toggle "System" to "ON/OFF" Position (Bottom Right Corner)



- 1 Press "Options" Button
- 2 Press "Water Care" Button
- 3 Press "Next" Button
- 4 Press "Sensor" Button
- 5 Toggle "System" to ON/OFF Position

Hot Tub Start Up & Maintenance Guidelines

Water Care 101: Changes to your hot tub's water chemistry are normal and can happen rapidly based on many factors including usage, water temperature, and water level. Regular testing and adjustments are recommended for a fun and safe hot tub ownership experience. The following guide outlines our recommended steps that you should take to maintain your hot tub's water care. Don't worry, you'll be a pro in no time!

Have These Items Ready:

- Five-Way Test Strips (use to test total alkalinity, pH, calcium hardness & chlorine levels)
- Phosphate Test Strips (use to test phosphates)
- Salt Cartridge (Every 3-4 Months)
- Salt Test Strips (use to test salt levels)
- Spa Salt
- Vanishing Act



Pro Tip: Check chemical and salt levels using the appropriate test strip!

FRESH FILL (Start Up)

1. Fill hot tub with water (use a Pre-Filter during the fill cycle for well water). First, remove filter and filter lid/basket. Add water directly to hot tub through the filter compartment. Fill to above all jets and just below pillows/headrests.
2. After filling, replace filter components and follow the instructions provided in your owner's manual to turn on your hot tub and begin heating.
3. Install Smart Monitoring System Sensor. Turn OFF Sensor in Control Panel.
4. Check and remove phosphates (Ideal Range: 0-125 ppb, Adjust with: *SpaGuard Phosphate Remover*)
5. Check and balance total alkalinity (Ideal Range: 80-120 ppm, Adjust with: *SpaGuard Total Alkalinity Increaser, SpaGuard PH Decreaser*)
6. Check and balance pH (Ideal Range: 7.2-7.8 ppm, Adjust with: *SpaGuard pH Increaser or pH Decreaser*)
7. Add FreshWater Spa Salt based on fresh fill chart on bag (2½ cups of salt per 100 gallons). Add one cup at a time to the filter compartment with jets running. Run jets for 5 minutes to allow the salt to dissolve.
8. Add 1 tsp. of SpaGuard Chlorinating Concentrate per 100 gallons to achieve 5 ppm chlorine level.
9. Check calcium hardness (Ideal Range: 25-75 ppm, Adjust with: *Vanishing Act Calcium Remover, SpaGuard Calcium Hardness Increaser*)
10. Enter output level on topside control panel. An initial output level of 10 is recommend.



*If out of range, contact Georgia Spa before adjusting.

*****Leave cover open for a minimum of 20 minutes for off-gassing to prevent damage to cover and pillows*****

*****Pro Tip: Maintenance frequency may vary based on usage*****

24-HOUR CHECK

(Repeat every 24 hours until stable)

1. Spa must be between 90 and 104F before retesting.
2. Check to see if the salt level is in the recommended range (1,750-2,200 ppm). If in range, skip this step. Add FreshWater Spa Salt ONLY if necessary!
3. Check and balance pH (7.2-7.8 ppm) and total alkalinity (80-120 ppm).
4. Confirm that the calcium hardness levels are in range (25-75 ppm).
5. If chlorine is 0-1 ppm, add SpaGuard Chlorinating Concentrate.



EVERY 7-10 DAYS:

1. Test and balance your pH (7.2-7.8 ppm) and total alkalinity (80-120 ppm)
2. Add 1 oz. of SpaGuard Phosphate Remover per 500 gallons of water to keep phosphates low.
3. Confirm your output level. Decrease your output level by 1 every 7-10 days until your system maintains 1-3 ppm of chlorine. If chlorine is 0 ppm, add SpaGuard Chlorinating Concentrate and increase output level by 1.

NOTE: Press the Confirm or OK button to clear the 10-day system check reminder. If you don't press the confirm button within 15 days, your FreshWater Salt System will automatically lower the output. After 21 days, the system will start a shutdown procedure.



Turn ON Smart Monitoring System Sensor - After Salt & Chlorine Levels are balanced and stable.

EVERY 30 DAYS:

1. Test your salt levels with a manual test strip (1,750-2,200 ppm)
If below 1,750 ppm, adjust your salt level by adding **FreshWater Spa Salt** according to the chart on the back of the bag. Amount of salt needed will vary depending on your salt reading and the number of gallons of your model spa.
PRO TIP: This is also a good time to use the **SpaGuard Chlorinating Concentrate** to boost your water's chlorine level to 5 ppm. Get the appropriate dosage for your size hot tub from the back of the bottle.
2. Clean filters with **SpaGuard Filter Cleaner**, or for **Tri-X filters**, clean in dishwasher per instructions.
3. Test phosphates (< 125 ppb recommended). If above, add **SpaGuard Phosphate Remover** per instructions.



FREE Water Testing! Bring us a sample of your hot tub water, and we'll test it and provide a report of steps to take to adjust your spa water. Showrooms open Monday-Saturday, 10 a.m. - 7 p.m., and Sunday 1-5 p.m. We recommend having your water tested every 30 days.

EVERY 3-4 MONTHS:

1. Replace your Fresh Water System Cartridge.
NOTE: Your system will notify you when you need to replace this cartridge. Typical replacement time is 3-4 months.
PRO TIP: Sign up for our Home Auto Ship Program and when your shipment arrives it's the reminder you'll need to change both of these cartridges.

EVERY 8-12 MONTHS:

1. Drain your hot tub. See owners manual for specific draining instructions.
2. Clean your tub using Natural Chemisty Celan & Perfect. Do NOT spray entire tub. Spray on a cloth rag and spot clean as needed.
3. Refill your tub following the Fresh Fill (Start Up) instructions.
4. IQ Sensor Replacement.





FILTER MATRIX



Caldera Only	Aventine	35 sq ft		77817	16	74148	C-4335	FC-2385		PRB35-IN-3	40353
Caldera Only	2003 Martinique, Kauai, & Cumberland	50 sq ft		N/A	Single	N/A	C-7451	FC-3084		PCD50	70511
Caldera Only	Paradise Martinique, Kauai	50 sq ft	11 inches	77814	9	73532	C-7350	FC-3963		PCD50N	75017
Caldera Only	Highland Cascade, Cumberland	75 sq ft	15 inches	77813	9	73531	C-7375	FC-3964		PCD75N	77515
Caldera Only	Paradise Genova, Niagara, Tahiti, Salina, Moorea, Houlihan, Highland Olympic, Palomar, Malana, Monaco, Sycamore C-20445 2004 to Current Utopia Aspire, Tahiti, Niagara, Genova, & Elatien.	100 sq ft		77812	6	73722	C-8399	FC-3965		PCD100-W	81004
Caldera Only	Utopia 2005 to Current Cantabria 2015 to Current Utopia	100 sq ft		77811	6	74817	C-8300	N/A	N/A	PWK100	81008
Dolce Vita	Bello & Lucia	30 Sq Ft		71825							
Apex Spa Program Caldera / Apex Spa Program Caldera /	Caldera Vacanza - Torino & Cello HSS Highlife Models - all models HotSpot TX SX Stride, Pace	30 sq ft		71826	12	71825	C-8430	FC-3915		PWK30	80301
Apex Spa Program Caldera /	Caldera Vacanza - Marino, Vanto, Palatino Hot Spots - Rhythm, Relay, Limelight 2017 & older	65 sq ft		71828	5	76136	C-8465	FC-3960		PWK45N	80651
Caldera HotSpring	Caldera - Oasis & San Gabriel	50 sq ft		N/A	N/A	N/A	C-4950	FC-2390		PRB50-IN	40506



HotSprings Only	Ceramic Filter - HSS Highlife Series / NTX Series Order 5 case at time to get best price	HSS Tri-X	73250 5 Case Min	9	73178	N/A	N/A	N/A	N/A	N/A	N/A
HotSprings Only	HSS Limelight Series 2018+	50 sq ft	78373	6	78161	C-6350		FC-3921		PWK50	60512
HotSprings Only	HSS Prism	75 sq ft	78372	6	78286		N/A	N/A	N/A	N/A	N/A



FreeFlow Fantasy	FreeFlow - Mini Fantasy Spa - Aspire	25 sq ft		N/A	N/A	N/A	78459				
FreeFlow Fantasy	FreeFlow TriStar, Curcino, Aspar, Azure, Montrose, Excursion Fantasy - Embrace, Drift, Splendor, Entice, Enamor	50 sq ft		N/A	N/A	N/A	78460	SCH-35	FC-2401		PFF50P
AquaTerra	Aqua Terra Spas	37.50 sq ft		N/A	N/A	N/A	N/A	SCH-37			

FROG @EASE CHEAT SHEETS

Adjust Filter Cycle **FREEFLOW**

Can Not Be Salt
Does Not Have
Circulation Pump

CONGRATULATIONS ON YOUR NEW SPA!

Aptos Gallons 265



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **78460**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

Azure Gallons 235



1
COMBINED
POOL & SPA
DETAILS CARD

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **78460**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

①
COMBINED
SUPPLEMENTATION
Saves \$\$\$

Cascina Gallons 190



**MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.

Your Replacement Filter Number Is **78460**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.



CONGRATULATIONS ON YOUR NEW SPA!

1
COMBINED
POOL & SPA WATER
SUPPORT KIT

Mini Gallons 125



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **78459**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 1 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

①
COMBINED
POOL/SPA PARTS
Single Part

Excursion Gallons 300



**MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.

Your Replacement Filter Number Is 78460

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

1
COMBINED
WATER & SPA
SPECIAL CARE

Monterey Gallons 320



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **78460**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

1
COMBINED
POOL & SPA
SALES & SERVICE

Tristar Gallons 185



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **78460**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



FROG @EASE CHEAT SHEETS

Adjust Filter Cycle **DOLCE VITA**

Can Not Be Salt
Does Not Have
Circulation Pump

CONGRATULATIONS ON YOUR NEW SPA!

Lucia Gallons 360



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is 71825

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

Bello Gallons 375



1
COMBINED
POOL & SPA
MAINTENANCE
SOLUTION

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **71825**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



freshwater® IQ

FROG @EASE CHEAT SHEETS

Adjust Filter Cycle
VACANZA

Can Not Be Salt
Does Not Have
Circulation Pump

CONGRATULATIONS ON YOUR NEW SPA!

1
COMBINED
POOL & SPA
SALES PART

Aventine Gallons 150



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **74148**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 1 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

1
COMBINED
@Ease Spa Filter
@Ease Cartridge

Celio Gallons 215



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **71825**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!



Marino Gallons 360



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **76136**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!



Palatino Gallons 400



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is 76136

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

①
COMBINED
POOL & SPA
SALES CALL

Tarino Gallons 310



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is 71825

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.



CONGRATULATIONS ON YOUR NEW SPA!

①
COMBINED
POOL & SPA
SALES

Vanto Gallons 375



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **76136**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



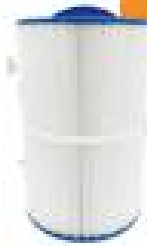
FROG @EASE CHEAT SHEETS

PARADISE

Can Be Salt
Has Circulation Pump

CONGRATULATIONS ON YOUR NEW SPA!

Kauai Gallons 230



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is 73532

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

①
COMBINED
POOL & SPA
SALES

Makena Gallons 395



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **73531**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

1
COMBINED
POOL & SPA CARE
SPARE PARTS

Martinique Gallons 285



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **73532**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
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- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

COMBINED
POOL & SPA
SALES & SERVICE

Reunion Gallons 350



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is 73531

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

COMBINED
POOL & SPA
SOLUTIONS

Salina Gallons 420



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is 73531

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!



Seychelles Gallons 330



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is 73531

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



freshwater® IQ

FROG @EASE CHEAT SHEETS

UTOPIA

Can Be Salt
Has Circulation Pump

CONGRATULATIONS ON YOUR NEW SPA!



Florence Gallons 360



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **73722**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

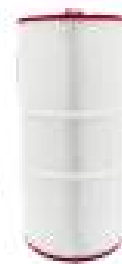
Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

①
COMBINED
POOL & SPA
SALES & SERVICE

Cantabria Gallons 615



**MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.

Your Replacement Filter Number Is **73722**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!



Geneva Gallons 410



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **73722**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

1
COMBINED
POOL & SPA KIT
SOLUTION

Niagara Gallons 400



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **73722**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity	80 - 120
pH	7.2 - 7.8
Hardness	50 - 100
Chlorine	.5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!

1
COMBINED
CHLORINE & MINERAL
CARTRIDGE

Ravello Gallons 265



**MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.

Your Replacement Filter Number Is **73532**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 2 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



CONGRATULATIONS ON YOUR NEW SPA!



Tahitian Gallons 375



****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3 HOURS PER CYCLE.
REFER TO YOU OWNERS MANUAL OR CONTACT YOUR SALES ASSOCIATE.**

Your Replacement Filter Number Is **73722**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH down) Alkalinity (Alkalinity Increaser & pH down) & Hardness (Stain & Scale Control).

Acceptable Ranges to be in:

Alkalinity 80 - 120

pH 7.2 - 7.8

Hardness 50 - 100

Chlorine .5 - 1.0

Once above is balanced:

- Add 2TBS of Chlorine Concentrate
- Set Mineral Cartridge (Blue) at 6 (Change every 3-4 months)
- Set @Ease Chlorine Cartridge at 4 (Change every 3-4 weeks)
- Add 2TBS of Enhanced Shock monthly and every time you change @Ease Cartridge (or when water is cloudy)
- Add 3 caps of Stain & Scale weekly.
- Add 1 cap of Spa Perfect weekly.
- Bring water test in monthly.
- Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions, or extra assistance with balancing water, bring in a water sample.



FROG @EASE CHEAT SHEETS

Adjust Filter Cycle **HOT SPOT**

Can Not Be Salt
Does Not Have
Circulation Pump



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Hot Spot Stride

Gallons: 215

Replacement Filter Number: 31489

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3:00 PER CYCLE. PG 17 OF YOUR OWNER'S MANUAL OR CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 1TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 2 (Change every 3-4 weeks)
3. Add 1TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 1oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Hot Spot Rhythm
Gallons: 355

Replacement Filter Number: 76136

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3:00 PER CYCLE. PG 17 OF YOUR OWNER'S MANUAL OR CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 2 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 3oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Hot Spot Relay
Gallons: 355

Replacement Filter Number: 76136

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3:00 PER CYCLE. PG 17 OF YOUR OWNER'S MANUAL OR CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH Decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 2 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 3oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Pace

Gallons: 300

Replacement Filter Number: 71825

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3:00 PER CYCLE. PG 17 OF YOUR OWNER'S MANUAL OR CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH Decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 3 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 2oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Hot Spot SX

Gallons: 285

Replacement Filter Number: 31489

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3:00 PER CYCLE. PG 17 OF YOUR OWNER'S MANUAL OR CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 1TBS of Chlorine Concentrate
1. Set Mineral Cartridge at **6** (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at **2** (Change every 3-4 weeks)
3. Add 1TBS of Enhanced Shock every time you change @Ease Cartridge *(or when water is cloudy)*
4. Add 1oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Hot Spot TX
Gallons: 190

Replacement Filter Number: 31984

****MAKE SURE YOUR FILTER CYCLES ARE SET AT 3:00 PER CYCLE. PG 17 OF YOUR OWNER'S MANUAL OR CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH Decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 2 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge *(or when water is cloudy)*
4. Add 2oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.

freshwater® IQ

FROG @EASE CHEAT SHEETS

LIMELIGHT

Can Be Salt
Has Circulation Pump



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Limelight Beam

Gallons: 295

Replacement Filter Number: 78161

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH Decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at **6** (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at **2** (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 3oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Limelight Flash

Gallons: 360

Replacement Filter Number: 78161

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 3 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 3oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Limelight Flair

Gallons: 335

Replacement Filter Number: 78161

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH Decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 3 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 3oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Limelight Pulse

Gallons: 445

Replacement Filter Number: 78161

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH Decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at **6** (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at **4** (Change every 3-4 weeks)
3. Add 3TBS of Enhanced Shock every time you change @Ease Cartridge (*or when water is cloudy*)
4. Add 3oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Limelight Prism

Gallons: 525

Replacement Filter Number: 78286

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH Decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 3TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 5 (Change every 3-4 weeks)
3. Add 3TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 3oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.

freshwater® IQ

FROG @EASE CHEAT SHEETS

HIGHLIFE

Can Be Salt
Has Circulation Pump



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Highlife Envoy

Gallons: 390

Replacement Filter Number: 73178

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 2 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge *(or when water is cloudy)*
4. Add 4oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Highlife Grandee

Gallons: 450

Replacement Filter Number: 73178

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 3TBS of Chlorine Concentrate
1. Set Mineral Cartridge at **6** (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at **4** (Change every 3-4 weeks)
3. Add 3TBS of Enhanced Shock every time you change @Ease Cartridge *(or when water is cloudy)*
4. Add 4oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Highlife Aria

Gallons: 325

Replacement Filter Number: 73178

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 2 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 4oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Highlife Vanguard

Gallons: 335

Replacement Filter Number: 73178

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH Decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at **6** (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at **2** (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 4oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



HotSpring®

Every day made better®

Congratulations on your new spa!

You have bought the Hot Spring Highlife Sovereign

Gallons: 315

Replacement Filter Number: 73178

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH decreaser) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 2TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 2 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 4oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



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Congratulations on your new spa!

You have bought the Hot Spring Highlife Jetsetter LX

Gallons: 210

Replacement Filter Number: 73178

****IF YOU HAVE ANY QUESTIONS CONTACT YOUR SALES ASSOCIATE FOR DETAILS 605-361-3323**

You will be sent an additional analysis from our BioGuard computerized water testing system. That analysis is for your initial balance, please adjust only the pH (pH Increaser & pH deceiver) Alkalinity (Alkalinity Increaser & pH Decreaser) & Hardness (Stain & Scale Control)

Acceptable Ranges to be in:

Alkalinity 40-120

pH 7.2-7.8

Hardness 50-100

Chlorine .5-1.0

Once above is balanced

1. Add 1TBS of Chlorine Concentrate
1. Set Mineral Cartridge at 6 (Change every 3-4 months)
2. Set @Ease Chlorine Cartridge at 1 (Change every 3-4 weeks)
3. Add 2TBS of Enhanced Shock every time you change @Ease Cartridge (or when water is cloudy)
4. Add 3oz of Stain & Scale monthly.
5. Bring water test in monthly.
6. Clean filter monthly.

Chemical dosages are approximate and are based on average usage; some adjustments will need to be made. For accurate prescriptions or extra assistance with balancing water, bring in a water sample.



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Gallons: 200

Replacement Filter Number: 73178

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freshwater® IQ

IQ TROUBLE SHOOTING

For Service Department

THE
HotTub
CREW
Delivering Wellness

**drain clean
& refill**
ONCE A YEAR



WatkinsWellness®

Feel good. Live well.™

FreshWater® IQ Dealer Guide

Summary:

Service Guide for Technicians to troubleshoot issues with the FreshWater® IQ. The FreshWater IQ combines the FreshWater Salt and FreshWater Smart Monitoring Systems.

Topics covered: Specifications, Components, Installation, Features, Issue troubleshooting.

FreshWater Smart Monitor System:

Item	FreshWater Smart Monitor
Parameters Tested	Chlorine, pH, TDS (salt)
Sensor Technology	Proprietary Watkins
Sensor configuration	Replaceable Cartridge
Sensor serviceability	Customer
Sensor life	Up to 12 months
Sensor location	Bar top housing
Controller	FreshWater Smart Monitor
Spa Compatibility	2024+ Eagle equipped spas
Spa Software	Install latest
Target Salt level (test strips)	1750 -2000 ppm
Target TDS level (meter)	1900-2500 ppm
Target Hardness	50 ppm
Target pH	7.4
Target Alkalinity	80
Target Phosphate	< 150 ppb
Target Copper, iron, manganese	< 0.2 ppm
Temperature	50-104F (10-40C)



Components:

Handle: Factory installed handle and cable set, mounted in the bar top housing and connected to the spa controller.

Controller: Small serviceable control module mounted to the handle, connected to the sensor, and is located in the bartop system housing.

Sensor: Consumer serviceable removable system component mounted to the Controller and located in the bar top housing that measures the water condition.

Plug: Mounts to the handle and locks the system into the housing when the system is not installed.

Bar top Housing: Enclosure mounted in the bar top which holds the cartridge.



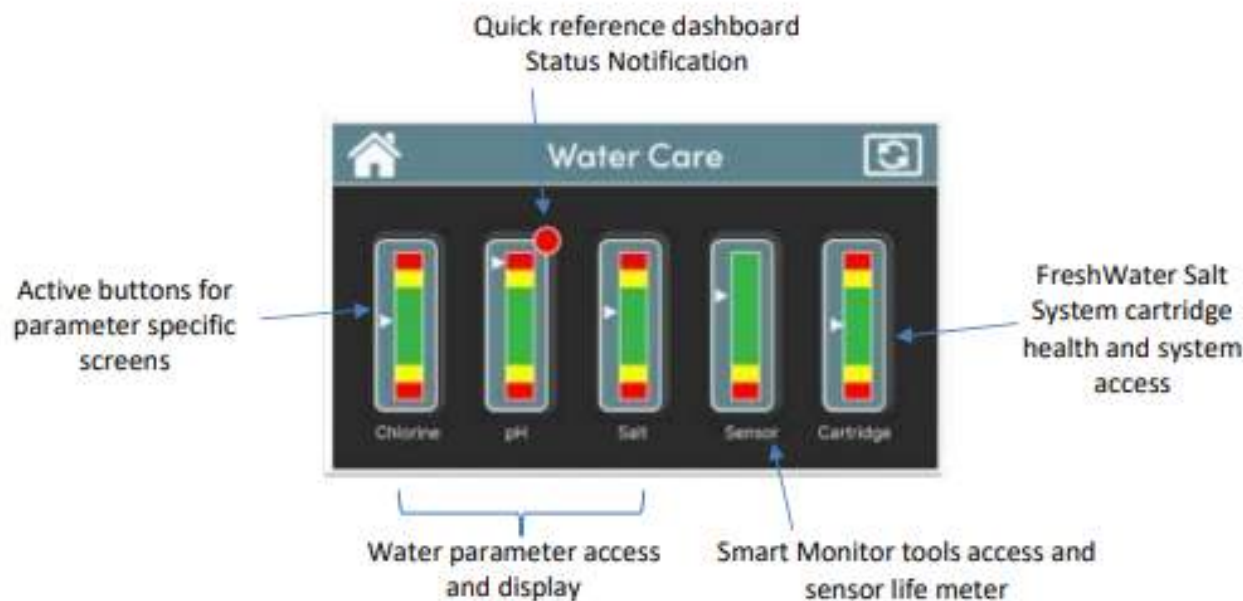
Installation:

The bar top housing, required plumbing, and handle are factory installed. Water from the circulation pump bleed line is plumbed into the inlet of the housing and discharges into the filter bucket. A small drain line is connected to the bottom portion of the housing and exits the spa under the front corner or toe kick depending on model. The drain line keeps the electrical connection compartment dry.

Features & Functions:

- FreshWater Salt must be Operational: The FreshWater Salt System (FWSS) must be installed, turned on, and operational for the Smart Monitor to operate. If the Salt System is in an error state or the cartridge has expired, the sensor will not take readings. Ensure that the FreshWater Salt System and a working cartridge are installed, and that adequate salt has been added to the water to allow the Smart Monitoring System to operate.
- Smart Monitor does not alter the FreshWater Salt operation: The Smart monitor System provides water condition information to the spa controls where it is processed to provide system status, feedback, and recommendations. The Smart Monitor System is not connected to, nor automatically controls, the FreshWater Salt System in any way. Any changes to the salt system operation are manually performed by the user. The 10-day timer and 4 months Replace Cartridge features are unaffected by the Smart Monitor System.
- 24 Hour Initialization Period: When the sensor is first installed, a 24-hour start-up/break in period will run for the first 24 tests. "24 Hour Initialization Period" is displayed on the top side control panel until that is complete and will not reappear until the sensor is replaced.
- Initializing: Every time the spa is powered up the spa will display "Initializing" for the 5-15 minutes until the first test is taken and readings are displayed.
- Test Frequency: Chlorine, pH, and salt readings are taken every hour.

- **Recommendations:** When measurements are outside the recommended bounds, the system provides recommendations to correct the water.
- **Updated Salt Cartridge Status:** When the Smart Monitor is installed and turned on, the FreshWater Salt status is changed to reflect only middle green, yellow, and red states which indicate the cartridge condition.
- **WaterCare Dashboard:** Touch panel equipped spas have a single screen dashboard providing the status of the readings, sensor, and salt system. Button control panels have two pages of menus providing general status notifications.



- **Notifications:** The WaterCare icons and menus will illuminate yellow or red if user attention to the system is needed. The notifications are cleared when the individual parameter screen is viewed and will remain suppressed for 24 hours. If the issue is still detected the next day, the notification will be reposted.
- **Recommendations:** Water maintenance advice is provided by the system based on the water conditions measured. The doses/adjustments are sized to prevent overshoot. One change per 24 hours is recommended to allow the water to equilibrate before further changes are made. Additional adjustments may be needed.
- **Status Meters:** Each parameter has a status meter to give the user a visual indication of the condition or measurement. Some meters are labeled, while others are not. Salt is not labeled because the calibration is for TDS rather than the colorimetric measurement of sodium chloride from the test strips. See below table for breakdown of colored regions for each meter.

Range	Chlorine*	pH	Salt (TDS)	Sensor	Cartridge
High red	>6	>8.0	>3000	N/A	N/A
High yellow	5-6	7.8-8.0	2501-3000	N/A	N/A
Green	1-5	7.2-7.8	1901-2500	~10 mo	Ok
Low yellow	0.5-1	7.0-7.2	1750-1900	~2 mo	Prepare to replace
Low red	<0.5	<7.0	<1750	Replace	Replace

* Chlorine green band can be changed to 1-3 and 4-6 as desired for any regional requirements.

Chlorine green range adjustment in the Super User menu settings:

1-5 ppm (default)
1-3 ppm
4-6 ppm

To change the value, press and hold for 6 seconds and release:

Highlife: Press and hold the info button in the settings menu
Limelight: Press and hold the "software" soft button in the settings menu
Utopia: Press and hold the right arrow on the temperature unit settings screen
Paradise: Press and hold the "software" soft button in the settings menu

- **Calibration:** The Smart Monitoring System is factory calibrated and does not auto-calibrate once installed. The system should not need calibration over the life of the sensor. If the sensor is exposed to water conditions outside the recommended parameters, metals, or products like AG+ (silver nitrate) the sensor can be affected and require replacement.

A **Calibration Offset** feature is available to adjust the chlorine and pH readings. This setting should only be used when the readings are stable but consistently slightly higher or lower than a reliable reference measurement. To determine if this feature should be used, the spa should be stable and holding consistent values for 3-5 days. A ~3 ppm residual must be in the water and the pH in the recommended range 7.2 - 7.8. Do not use this if "0" chlorine is being read by the IQ and or reference.

Setting access: Navigate to the chlorine or pH detail screens. For *Touch panels*, press and hold the status meter for 6 seconds. For *Button panels*, press and hold the upper left soft button for 6 seconds.

Set offset: Measure the parameter with a reliable method. Access the setting screen. Increase/decrease the displayed value to match the reference value and confirm with the "check" or OK button.

Clear offset: Access the setting screen. Press the "X" or Clear button to reset the setting.

- **Firmware Updates:** The Smart Monitoring System firmware can and should be updated when the spa is installed as well as during any service to ensure the latest features are available. Please follow the 2024 controls firmware update process to update the spa and system. The system firmware revision is visible in the settings menu. In certain *instances* it may take longer to display the firmware version in the setup menu after power-up. If not version is displayed, recheck the firmware version after a few minutes and it will be updated.

NOTE:

If updating to a new spa control box or control panel, first power up the spa to allow the spa control box to gather the device firmware information. Then power down, insert the drive, and power the spa to reprogram the components.

Unplug all devices off the peripheral bus except the one to be updated. If multiple devices are on the buss when updating a peripheral, the process may not complete and result in no update or a non-functional device. If this occurs, ensure the FWIQ is the only device on the bus and try to reload the firmware.

Firmware Update Summary:

1. Download the latest firmware packet from the service portal.
2. **Unzip the packet** and place all files from within the folder on the root of the programming thumb drive.
 - a. The packet contains all current firmware files for all Watkins Wellness spa products. The control system will select the appropriate files for update.
3. Power down the spa.
4. Remove all devices off the peripheral bus except the FWIQ.
5. Insert the drive.
6. Power the spa.
7. Wait for the programming process to complete. The light sequence will change when the next device is being updated.

Note: Estimated update timing:

Spa Control Box:	15 seconds
Control Panel:	25 seconds
Smart Monitor:	15 seconds
Graphics:	5-15 minutes

Troubleshooting:

System Start-up and Water Maintenance

FreshWater Salt must be installed and operational before the Smart Monitor will operate. The Salt System start-up process must be followed for successful Salt operation as well as Smart Monitor operation. The water should be balanced and within the recommended parameters for best operation.

1. Follow the Salt System Best Practices for Start-up as detailed in the FRESHWATER SALT SYSTEM and FWIQ manuals.
2. Balance the water.
3. Shock water to 5 ppm.
4. Test and shock daily until water holds a 3 ppm chlorine residual.
5. If the Smart Monitoring System has already been installed, ensure that the system has been turned off at the control panel before beginning the FreshWater Salt Start-Up process.
6. Install or turn on the Smart Monitoring System once the water is balanced, clean, and holding a 3 ppm residual.

Maintain the water with the recommended ranges.

System Parameter	Target	Min	Max
Salt	1,750 ppm	1,500 ppm	2,000 ppm
Calcium Hardness	50 ppm	25 ppm	75 ppm
Alkalinity	80 ppm	40 ppm	120 ppm
pH	7.4	7.2	7.8
Chlorine*	3 ppm	1 ppm	5 ppm
Phosphate	<150 ppb	0 ppb	300 b

*Chlorine range and target may vary by country. Consult local authority.

Compatibility:

There are a variety of water conditions and products that can interfere with the proper operation of the Smart Monitor System. These conditions/ products can damage and poison the sensor such that the sensor will need to be replaced after the spa water has been changed and lines flushed out. A line purge is not typically required unless the spa is highly contaminated and dirty. It is recommended to use FreshWater Spa Chemicals with the spa to ensure best performance and minimize contamination from harmful chemicals.

9. Test strip showing low salt, IQ showing ok/high salt:
 - a. Check the test strip expiration date on the bottle.
 - b. Check for flow through the sensor.
 - i. Check for flow in the filter bucket at the small opening in the wall of the filter area.
 - ii. FWIQ sensor not fully installed and in the locked position.
 - iii. Smart Monitor housing loose and twisted (hoses pinched internally).
 - iv. Kinked bleed supply line.
 - c. Check spa water temperature – bring water to 95F +.
 - d. Remove the sensor from the controller and inspect for damage and water.
 - e. Turn off Smart Monitor and check the FWSS status bar.
 - i. If the status is not mid to high green, more salt is needed.
 - ii. Test most accurate with new sensor and water temperature 95F+.
 - f. Monitor for 4 hours to ensure the salt is fully dissolved and the Smart Monitor has updated its readings.
 - g. Drain and refill the spa if the issue continues.
 - i. Turn off the Sensor.
 - ii. Start-up using best practices.
 - iii. Turn on Sensor.
 - h. Replace sensor if it does not respond after 3 days.

Do not troubleshoot Chlorine or pH issues until Salt is working.

10. Test strip reading low/no chlorine, IQ showing green or higher chlorine (+2.5 ppm):
 - a. Smart Monitor is registering alternate active substances.
 - b. Check firmware and update if older than:
 - i. Control Box: EG....1302
 - ii. Highlife Bartop: TH....1301
 - iii. Limelight Bartop: LL....1302
 - iv. Utopia Bartop: TU....1304
 - v. Paradise: BU....1303
 - c. Verify if the water is balanced within the recommended ranges.
 - d. Check for AG+, MPS, ozone, or other chemicals added to the spa. See step (g).
 - e. Check for flow through the sensor.
 - i. Check for flow in the filter bucket at the small opening in the wall of the filter area.
 - ii. FWIQ sensor not fully installed and in the locked position.
 - iii. Smart Monitor housing loose and twisted (hoses pinched internally).
 - iv. Kinked bleed supply line.
 - f. Shock the water and chlorinate to ~3-5ppm and monitor for 3 days.
 - g. Drain and refill the spa.
 - i. Turn off the Sensor.
 - ii. Start-up using best practices.
 - iii. Turn on Sensor.
 - h. Replace sensor if it does not respond after 3 days.

11. Test strip reading high chlorine (+3 ppm), IQ showing low (yellow) or no (red) chlorine (indicator present):
 - a. Verify if the water is balanced within the recommended ranges. Check for low alkalinity.
 - b. Check for AG+, MPS, ozone, or other chemicals added to the spa. See step (e).
 - c. Check for flow through the sensor.
 - i. Check for flow in the filter bucket at the small opening in the wall of the filter area.
 - ii. FWIQ sensor not fully installed and in the locked position.
 - iii. Smart Monitor housing loose and twisted (hoses pinched internally).
 - iv. Kinked bleed supply line.
 - d. If dichlor (chlorine) was recently added, allow 1 hour after addition for the next test to be taken.
 - e. Drain and refill the spa.
 - i. Turn off the Sensor.
 - ii. Start-up using best practices.
 - iii. Turn on Sensor.
 - f. Replace sensor if it does not respond after 3 days.
12. Test strip pH reading does not match IQ:
 - a. If the pH in the green on the dashboard, make no changes.
 - i. Verify the water balanced within the recommended ranges. Check for low alkalinity and increase the alkalinity to target 80 ppm.
 - b. Check for flow through the sensor.
 - i. Check for flow in the filter bucket at the small opening in the wall of the filter area.
 - ii. FWIQ sensor not fully installed and in the locked position.
 - iii. Smart Monitor housing loose and twisted (hoses pinched internally).
 - iv. Kinked bleed supply line.
 - c. Verify if a chlorine residual is registering on both IQ and strips.
 - i. If the water constantly without chlorine and out of balance, correct behavior & stabilize the water.
 - ii. If no chlorine present, *Boost* or add chlorine to establish a residual.
 - iii. Verify pH after maintaining a ~3ppm residual for 48 hours.
 - iv. If the pH is it chronically high or low by a few tenths, then make a calibration offset adjustment.
 - d. Monitor and allow pH to stabilize - pH is a slow-moving system.
 - e. Drain and refill the spa.
 - i. Turn off the Sensor.
 - ii. Start-up using best practices.
 - iii. Turn on Sensor.
 - f. Replace sensor if it does not respond after 3 days.

13. pH is changing quickly or day to day:
 - a. Increase spa water alkalinity.
 - b. Decrease pH chemical dosing amounts from recommendations. Recommendations are approximate and the actual dose amounts can vary depending on other water conditions not being measured, such as alkalinity and calcium hardness.
14. Hard to remove the IQ cap:
 - a. Cap O-ring not greased and requires additional o-ring lubricant.
 - b. Replace O-ring with new O-ring.
15. Spinning or loose Smart Monitor housing:
 - a. Resolve a hard to remove cap.
 - b. Reposition housing and ensure plumbing lines are not kinked.
 - c. Tighten wall fitting nut.
 - d. Apply thread lock to threads - silicone, Devcon or similar.
16. FWSS change cartridge sequence is locking up at the replace cartridge step (Limelight & Paradise):
 - a. Check firmware and update if older than:
 - i. Control Box: EG....1302
 - ii. Highlife Bartop: TH....1301
 - iii. Limelight Bartop: LL....1302
 - iv. Utopia Bartop: TU....1304
 - v. Paradise: BU....1303
17. FWSS Boost not working consistently on Utopia spas:
 - a. Check firmware and update if older than:
 - i. Control Box: EG....1302
 - ii. Highlife Bartop: TH....1301
 - iii. Limelight Bartop: LL....1302
 - iv. Utopia Bartop: TU....1304
 - v. Paradise: BU....1303
18. Water leaking onto the floor
 - a. Check the FWSS housing and cartridge for any water leaking past the cartridge.
 - i. Replace the cartridge. Continued leaking may require changing the housing.
 - b. Check the Smart monitor housing for visible water. Water should not be in the housing or in the Smart Monitor controller or sensor.