



**Hot Tub Wholesale
Guide to Hot Tub Water Care**

My Calypso Hot Tub Data:

Water Capacity: _____

Sanitizing Program: _____

Hot Tub Model #: _____

Serial Number: _____

Filter Cleaning Maintenance Schedule:

Month	Date Cleaned	Filter Cleaner 7	
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
January			
February			
March			
April			
May			
June			

Balancing Explained

Total Alkalinity

This is a measure of the alkaline salts in the water. The ideal range for a hot tub is 100 to 120 ppm.

High Alkalinity: This will cause scaling and cloudy water and the sanitizers in the hot tub will also be less effective. The pH in the hot tub can also become unstable and hard to balance. **To correct**, add either **Solution 3** (pH minus) or Muriatic Acid to the water according to the label.

Low Alkalinity: This can cause corrosive water and problems in balancing and maintaining a pH level. The sanitizing chemicals in the hot tub can also become ineffective. **To correct**, add **Comfort 14** according to the label.

NOTE: you should always adjust and balance your alkalinity before attempting to balance your pH. Alkalinity and pH are two separate parts to water care although they are not totally independent from each other.

Calcium Hardness

The range that is the best for a hot tub is 150 to 200 ppm.

High Calcium Hardness: This can result in scaling and cloudy water as well as problems in adjusting the pH. **To correct**, do a partial water change with water of a lower hardness level.

Low Calcium Hardness: This can result in corrosive water and damage to metal parts in the hot tub. Low levels can also cause foaming in the hot tub. **To correct** add **Protection 10** according to the label.

PH

The range that is best for a hot tub is 7.2 to 7.8

High pH: This can result in cloudy water as well as eye irritation and odor in the hot tub.

A high pH will also promote scaling in the hot tub. **To correct**, add **Solution 3** (pH minus) according to the label.

Low pH: This can result in eye irritation and odor. A low pH can also cause corrosive water and damage to equipment. **To correct**, add **Solution 2** (pH plus) according to the label.

Total Dissolved Solids

Dissolved solids are a measurement of how many particles there are dissolved in your water. These particles are made up of dust; pollen, soaps, lotions and the accumulation of water care products. A range of 0 to 1500 ppm is an ideal range for your hot tub.

High TDS: This can cause an unstable pH, cloudy water, odor, and foaming. It can also cause your sanitizers to be less effective in your tub. **To correct** you need to drain your tub and refill with fresh water. It is especially important if you are using the **Swat System** in your hot tub to drain and change your hot tub water if the TDS levels are over 1500ppm.

Periodic Maintenance of Your Hot Tub

Shocking Your Tub

This refers to raising the levels of your sanitizer or **Super Swat** (i.e. Chlorine and/or Bromine) to “shock” the tub and to ensure that all organic wastes are oxidized.

NOTE: At any time when you add chlorine or bromine to your tub you should not replaced the cover on your hot tub for at least 20 minutes as this could damage the vinyl of your cover. Before replacing the cover on your hot tub ensure that chlorine levels are below 5 ppm and the bromine levels are below 7 ppm.

Filters

It is important to regularly clean your filter. Your hot tub filter should be rinsed once a week and cleaned monthly. Alternate each month between the filter cleaning products of **Filter Cleaner 7**, soaking your filter for at least 24 hours. Having 2 filters and alternating between one in the tub and the other being cleaned will prolong the life of the filters.

Hot Tub

For cleaning the surface of your hot tub use **Cleaner Brightener 8**. It will safely remove any dirt film and deposits from the acrylic. Using **Cleaner Brightener 8** and keeping your water balanced will prolong the life of your hot tub.

Hot Tub Covers

In order to keep your vinyl soft and to help defend it against the elements use **Top 23** at least once a month. Cleaning it monthly with **Top 23** will help prolong the life of the vinyl.

Hot Tub Solutions and Troubleshooting

Cloudy Water

TDS. If there are high levels of dissolved solids in your hot tub the concentrated amounts can deteriorate the clarity in your hot tub. If your levels are above 1500 ppm they are above the recommended range and a complete water change should resolve the problem.

High pH. If your pH is above a level of 7.8 your water may appear cloudy. Adjust this level to a range of 7.2 to 7.8 by using **Solution 3** (pH minus) according to the label.

Filtration. If the filter is dirty or clogged the maximum filtration is reduced and can cause cloudiness in the hot tub. Your filter should be removed weekly and rinsed, monthly it should be soaked in **Filter Cleaner 7**.

Products added too close together. Always follow the guidelines on your analysis sheet to ensure safe use and additions of any chemicals to your hot tub.

Colored Water

Copper can dissolve into the hot tub water from equipment and cause the water to appear greenish blue. Water, especially well water, can also contain minerals such as iron, manganese, and copper, which can stain the surfaces of your hot tub. Always use **Scale Control 4** upon startup and **Scale Control 4** weekly to prevent these stains and colored water.

Eye and Skin Irritation

High pH. If your pH levels are above 7.8 this can irritate the eyes and skin. Before adjusting your pH check your total alkalinity, if it is in range then adjust your pH by adding **Solution 3** (pH minus) according to the label.

Low pH. If your pH is below 7.2 this can also be irritating to the skin and eyes. Before adjusting your pH check your total alkalinity, if it is in range then adjust your pH by adding **Solution 2** (pH plus) according to the label.

Chlorine. Nitrogen from body wastes, oils, etc can combine with chlorine to form chloramines in the water. These chloramines are the ones that cause odors and irritations. To correct this problem you need to “shock” your tub, i.e. super chlorinate it. You do this by adding double your weekly dose of granular chlorine or bromine.

No Sanitizer. With low levels or no levels of sanitizer in your hot tub skin and eye irritation can occur. Correct this by adding granular chlorine or bromine and/or opening up your floating feeder to allow more sanitizer to be released.

Foaming

Foaming can occur for a couple of reasons. Even the smallest amount of detergent residue in clothing and bathing suits can cause foaming. Always ensure that suits and clothing are rinsed before going into the tub. Soft water, (i.e. water with too low of a calcium hardness level) can also cause foaming. Soft water can be corrected by increasing the calcium hardness level to 150 to 200 ppm. To correct any foaming no matter how extreme or slight you should use **Foam Kill 5** sparingly. Ten drops is usually all that you need to knock down excess foaming.

Odor

If your hot tub has an odor to it you should check your pH and chlorine levels in the water. A high TDS level may also cause odor. To correct you should shock your tub, (add double the normal weekly amount of granular chlorine or bromine) or add **Super Swat** and then adjust your pH if needed.

Too High a Level of Sanitizer

If your chlorine or bromine levels are too high it can be harmful to use the hot tub. To reduce the levels you can use **Knock Out 24** which is an instant chlorine and bromine neutralizer. You can also open up the cover and turn the jets on high for 15-20 minutes and retest your levels. Chlorine and bromine will naturally vent out of the tub in time. If the levels are very high you should take out the floating dispenser until levels return to normal.

At any time, either as a check of your readings or if you are experiencing any problems, bring us in a water sample and we will run a free complete computerized analysis of your hot tub water. We will also print out a guide sheet showing you what your results are and what if any adjustments are needed.