

PristineBlue

Water Balance

The levels of total alkalinity, pH, and calcium hardness in water care are factors collectively referred to as "water balance".

Properly balanced water is the most essential element in the prevention of pool water problems. Testing on a regular basis is vital since water balance can be altered by such things such as rain, dirt, leaves, bathers, and chemicals.

Some problems that occur due to unbalanced water are skin and eye irritation, cloudy or green water, corrosion or scaling of equipments, and ineffective algae and bacteria control.

Water balanced to the following ranges helps maximize the effectiveness of PristineBlue and makes water conditions more user friendly and easier on equipment. It is important that pool or spa water is **BALANCED** before starting PristineBlue.

- **Total Alkalinity** **30 to 90 ppm**
- **pH** **7.2 -7.6**
- **Calcium Hardness** **under 300 ppm**

Although Pristine Blue does not manufacture water balance materials, a variety of products designed to adjust water balance and compatible with Pristine Blue system are commercially available from pool dealers.

- **Alkalinity increasers (sodium bicarbonate) are typically labelled with names like alkalinity up or alkalinity plus.**
- **pH increasers (sodium carbonate) are often called pH Up or pH plus**
- **Alkalinity and pH decreases (sodium bisulphate) are commonly name pH Down, pH minus or spa Down. Muriatic acid may also be used to decrease pH and alkalinity in pools but is not recommended for spa.**

TOTAL ALKALINITY

Total alkalinity and pH are closely related. Total alkalinity provides a buffering effect to add stability to pH, thus preventing drastic changes or "pH bounce"

Measure total alkalinity with PristineTest Kit, other kit or strips, or take water sample to your dealer for analysis. It is necessary to adjust the total alkalinity of your water before adjusting pH.

- **Total Alkalinity** **30 -90 ppm**

High Total Alkalinity. To correct high total alkalinity, turn the pump off, apply the recommended amount of pH deceiver, by pouring directly into the water standing in one location away from any inlets; turn pump back on after application. It may take several applications to lower total alkalinity to the desired level. If using Muriatic acid do not add more than 1.25 litres for each 50 cubic metres of water in a 24 -hours period.

Low Total Alkalinity. If it is necessary to increase total alkalinity, use an alkalinity increaser in small doses (no more than 240 millilitres every 24 hours in a pool) until the desired level is achieved. Use of alkalinity increaser may cause cloudiness or green tint in a Pristine Blue pool; filter constantly while raising total alkalinity.

pH. Once total alkalinity is in the proper range, check pH using the PristineTest kit, other test kit or strips, or take a water sample to your dealer for analysis.

- **pH** **7.2-7.6**

High pH. High pH can be lowered by broadcasting pH deceiver over the water surface.

Low pH. Should be adjusted with a pH increaser. Use the dosage recommended on the product's label.

CALCIUM HARDNESS

Calcium hardness varies little after introducing PristineBlue system. If you don't have a home test kit for calcium hardness, have your pool and spa dealer analyze a water sample.

- **Calcium Hardness less than 300 ppm**

High Calcium Hardness. The only practical solution for lowering calcium hardness is to drain some water from the pool and replace it with water lower in calcium hardness.

When source water is high in calcium (over 300 ppm), use PristineCheck whenever make up water is added at a rate of 40 ml for each 5.0 cubic metre in pools, and 40 ml for each 2.5 cubic metres in spas.

Low Calcium Hardness. Low calcium hardness does not generally cause any problems with the PristineBlue system and increasing is not recommended.

GENERAL POOL CARE

Along with chemical maintenance, you will need to clean or vacuum your pool routinely, run and maintain your filter, keep skimmers in good conditions and free from debris, and regularly check that all your equipment is functioning properly. See your pool dealer or contact the manufacturer for specific ~ recommendations on equipment usage and care.