

# EMERALD LeisureSource

## TROUBLESHOOTING TIPS

### IDEAL RANGES

BROMINE:	2.0 TO 5.0ppm
BROMINE W/ MINERAL CARTRIDGE:	.5 TO 2.0ppm
PH:	7.2 TO 7.8
ALKALINITY:	80 TO 120ppm
HARDNESS:	200 TO 600ppm

### COMMON PROBLEMS AND SOLUTIONS

**LOW BROMINE:** Add bromine tablets or turn up the dial on your feeder .

\*\*If the level is very low you may want to shock with granular bromine or chlorine.

**HIGH BROMINE:** Remove bromine source or turn down feeder until level drops to OK range. \*\* Careful to not let level drop too low. You may also open the cover and run the jets and blower to help lower the bromine level more quickly.

**LOW PH:** Add *PH UP* a capful at a time every 30 min, re-testing each time, until you reach the OK range.

**HIGH PH:** Add *PH DOWN* a capful at a time every 30 min, re-testing each time, until you reach the OK range.

**LOW ALKALINITY:** Add *ALKALINITY UP*. A capful will raise alkalinity by approximately 10ppm.

**HIGH ALKALINITY:** Add *PH DOWN* 1 to 2 capfuls every 20-30 minutes until you reach the OK range. This may bring your PH to low. If this happens adjust PH back to the OK range **after** alkalinity is fixed.

**LOW HARDNESS:** Add Hardness Control until you reach at least 200 ppm.

A capful will raise hardness approximately 10 ppm.

**HIGH HARDNESS:** The best way to help this problem is to change the fill source. You may want to partially fill with soft water.

- \* **These recommendations are basic guidelines. E.L.S. staff can assist you with further instructions.**
- \* **We offer free water testing in our stores.**
- \* **If you have any questions please don't hesitate to call us or stop by one of our stores.**