



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. You may also open the cover and run the jets and blower to help lower the bromine level more quickly.

** Careful to not let level drop too low.

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.