

## The Liquidator

Written by Administrator  
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### Automatically Dispenses Liquid Pool Chlorine While Your Pool Pump Runs

THE LIQUIDATOR® is a non-electric automatic chlorinator that will maintain a steady free chlorine level in a pool or spa. It is designed to feed a controlled amount of HASA LIQUID POOL CHLORINE (SODIUM HYPOCHLORITE) into the pool or spa by use of a patented process which allows mineral salts and other dissolved solids to fall out of solution and remain in the unit for disposal.

All Chlorine Compounds, when added to water, create hypochlorous acid (HOCl), the killing form of chlorine and hypochlorite ions (OCI), which are relatively inactive. The pH of the water determines what percentage of the chlorine is in the killing form.

In most pools and spas that are sanitized with liquid chlorine (Sodium Hypochlorite), the liquid is poured directly into the water or pumped in using a chemical feed pump. This provides the chlorine necessary for sanitation, but it also introduces additional chemical salts that drive the pH up and contributes to the build up of dissolved solids.

The Liquidator® eliminates this problem by introducing the liquid chlorine in a unique way. First the units tank is partially filled with pool water. Then the liquid chlorine is poured in through a funnel and drop tube, which introduces the chlorine compound to the bottom of the tank, underneath the water.

Because the liquid chlorine is heavier than the water, it remains at the bottom of the tank, essentially forming two layers of liquid - the heavier chlorine compound at the bottom and the lighter pool water on the top. With the chlorine under a bed of pool water, most of the odors associated with the cuse of these chemicals is eliminated.

At the point in the tank where the two liquids meet, the molecules of pure chlorine are absorbed from the heavier liquid below into the lighter pool water above, then sent back to the pool through the suction line.

The heavier chemical salts remain in the bottom of the tank, while the chlorinated water is drawn into the pool for sanitation, because tmost of the potentially corrosive salts remain in the

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tank, the unit can be safely plumbed into the suction side of the pool equipment.

A pair of specially designed float valves - one on the inlet port and another on the outlet - keep the tank from overflowing and assure that the water level is kept constant, a flow indicator is provided for easily viewing and adjusting the flow through the unit. A flow control valve is manually adjusted to provide the necessary level of chlorine to the pool.