



SOUTHAMPTON ENERGY CODE SUMMARY FOR SWIMMING POOLS

- The provisions of this law became effective January 1, 2009
- Applies to all newly constructed pools, and replacement pumps and heaters.

Pools/Spas

- Must be constructed and maintained under the NY State Property Maintenance Code and the New York Residential Building Code

Definitions:

AUXILIARY LOAD- An additional feature on a pool, typically a water feature or automatic cleaning system, which is powered by a separate pump and does not run for the same duration as the main filtration pump.

MULTI-SPEED PUMP- A pump, whether Two-Speed or Variable, designed for operating at two or more speeds.

POOL COVER- A solar blanket, also known as a “bubble cover”, an automatic cover that utilizes vinyl or similar material, or a winter cover that is sized to at least cover the entire surface area of a pool.

SINGLE SPEED PUMP- A pump designed to operate at one speed.

SWEEP ELBOW- A pipe fitting to connect sections of pipe to turn the pipe's direction that forms a curve that arcs ninety degrees without being a single right angle turn.

TWO-SPEED PUMP- A pump designed for operating at two speeds, typically high and low.

VARIABLE SPEED PUMP- A pump that is programmable to operate on more than two speeds. Hours of operation at the various speeds are able to be programmed directly on the pump and/or through an automatic control system.

Energy Conservation Construction Standards

- All pools with more than 500 square feet of surface area or an auxiliary pool load must be constructed with piping of at least 2" in diameter.
- All pools with less than or equal to 500 square feet of surface area or an auxiliary pool load must be constructed with piping of at least 1 ½" in diameter.
- All pools must use sweep elbows. Right angled elbows are prohibited.
- There must be a length of pipe without bends or turns that is greater than or equal to at least 4 pipe diameters installed before the inflow to the pump.
- All newly installed pumps must have the multiport valves sized to equal the diameter of the pressure side of the pump.
- Directional inlets (hydrostream fittings) shall be a size of ½" diameter or greater.

Pumps and Controls.

- All pumps and controls must have a time switch or similar control mechanism installed as part of the pool water circulation control system that automatically operates the system for the time necessary to maintain proper sanitary conditions and then automatically turns the system off.
- All single speed and two-speed pumps and controls must be set or programmed to run only during off-peak electric demand periods for regular filtration purposes except where the pumps are used for circulating water through a heat exchanger or solar heater.

- All pumps must be of the following type based on pool size:
 1. For pools with a surface area of < 500 square feet:
 - single speed or two-speed pump ≤ 1hp or variable speed pump.
 - 2-speed or variable speed pump if the pool has an auxiliary load.
 2. For pools with a surface area of 500 to 799 square feet: multi-speed pump.
 3. For pools with a surface area ≥ 800 square feet: variable speed pump.
- A single speed pump <1hp is allowed for the sole purpose of operating auxiliary load(s), provided that the same pump is installed in addition to the properly sized pump and the single speed pump shall not be used for filtration.

Pool Heaters

- All pool heaters must meet the minimum energy efficiency requirements as established by the United States Department of Energy.
- Continuously burning pilot lights are prohibited
- All heated outdoor pools must have a pool cover that covers the surface of the pool when not in use.
- The Building Inspector will waive the building permit fee for the replacement or installation of a pool heater when the pool heater being installed is a solar heating system.

Exemptions

- Hot tubs or spas that have separate and distinct filtration and heating systems not connected or sharing pumps, plumbing, heating systems or water circulation with a swimming pool are exempt from this law.