

# Clayton County Environmental Health Public Swimming Pool Program

## Clayton County Board of Health Swimming Pool Regulations

### Section -.09 Pumps and Motors.

- (1) **Sizing:** A pump and motor shall be provided for circulation of the pool and spa water. Performance of all pumps shall meet or exceed the conditions of flow required for filtering and cleaning (if applicable) the filters against the total dynamic head developed by the complete system. Where applicable, pumps shall comply with the NSF International Standard 50, or Underwriters Laboratories (UL) 1081.
- (2) **Strainer or Screen:** With all pressure filter systems, a cleanable strainer or screen shall be provided upstream of the circulation pump(s) to remove solids, debris, hair, lint, etc.
- (3) Pump(s) and motor(s) shall be accessible for inspection and service.
- (4) **Safe Operation:** The design and construction of the pump(s) and component parts shall provide safe operation.
- (5) **Pump Seal:** Where a mechanical pump seal is provided, components of the seal shall be corrosion-resisting and capable of operating under conditions normally encountered in pool operation.
- (6) **Capability:** Motor(s) shall be capable of operating the pump under full load with a voltage variation of plus or minus ten ( $\pm 10$ ) percent from the nameplate rating. If the maximum service factor of the motor is exceeded (at full voltage), the manufacturer shall indicate this on the pump curve.
- (7) **Overload Protection:** All motors shall have thermal or current overload protection, either built in or in the line starter, to provide locked rotor and running protection.
- (8) When the pump is below the waterline, valves shall be installed on permanently connected suction and discharge lines, located in an accessible place outside the walls of the pool, where they shall be readily and easily accessible for maintenance and removal of the pump.
- (9) Pressure or vacuum gauges shall be installed on all public pools and spas.
  - (a) The vacuum gauge shall be installed after the filter and before the pump, as close to the pump return inlet as possible while still maintaining an accurate reading.
  - (b) The pressure gauge shall be installed downstream from the pump on the face piping ahead of the filter or on top of the filter in the area of greatest filter pressure.