SWIMMING POOL HEATING

All new or replacement gas or electric swimming pool heating systems must meet the following requirements per California Energy Code, Title 24, Part 6, Section 110.4 MANDATORY REQUIREMENTS FOR POOL AND SPA SYSTEMS AND EQUIPMNET.

1. Certification by manufacturers. Any pool or spa heating system or equipment may be installed only if the manufacturer has certified that the system or equipment has all of the following:

A) **Efficiency.** A thermal efficiency that complies with the Appliance Efficiency Regulations; and
B) **On-off switch.** A readily accessible on-off switch, mounted on the outside of the heater that allows shutting off the heater without adjusting the thermostat setting; and
C) **Instructions.** A permanent, easily readable and weatherproof plate or card that gives instructions for the energy efficient operation of the pool or spa heater and for the proper care of the pool and/or spa water when a cover is used; and
D) **Electric resistance heating.** No electric resistance heating; and

Exception 1 to section 110.4(a) 4: Listed package units with fully insulated enclosures, and with tight fitting covers that are insulated to at least R-6.

Exception 2 to section 110.4(a) 4: pools or spas deriving at least 60 percent of the annual heating from site solar energy or recover energy.

2. Installation. Any pool or spa system or equipment shall be installed with all of the following:

a) **Piping.** At least 36 inches of pipe shall be installed between the filter and the heater or dedicated suction and return lines, or built-in or built-up connections shall be installed to allow for the future addition of solar heating equipment; and
b) **Covers.** A cover for the outdoor pools or outdoor spas that have a heat pump or gas heater.
c) **Directional inlet and time switches for pools**. If the system or equipment is for a pool:
   i. The pool shall have directional inlets that adequately mix the pool water; and

   ii. A time switch or similar control mechanism shall be installed as part of a water circulation control system that will allow all pumps to be set or programmed to run only during off-peak electric demand period, and for the minimum time necessary to maintain the water in the condition required by the applicable public health standards.