SPAS AND HOT TUBS
ELECTRICAL INFORMATION

One-Family Residential

Outdoor Installations

- Electrical permit and inspection required.
- Wiring methods shall be used as required by NEC Chapters 1 through 4.
- Conductor and overcurrent devices to be 125% of rated current of unit.
- No receptacles to be located within six (6) feet of a spa or hot tub.
- One (1) receptacle shall be located between six (6) feet and twenty (20) feet of a spa or hot tub.
- All receptacles to be G.F.C.I. protected.
- Lighting fixtures, lighting outlets, and ceiling fans are not to be located over a spa or hot tub or in an area five (5) feet horizontally from the walls of a spa or hot tub.
- Switching devices shall be located at least five (5) feet horizontally from the inside walls of a spa or hot tub.
- Overhead service conductors are not allowed above a spa or hot tub or in an area extending ten (10) feet horizontally from a spa's or hot tub's walls.
- Underground wiring is not allowed under or within an area five (5) feet horizontally from the walls of a spa or hot tub.
- Disconnecting means shall be accessible, located within sight and shall be located at least five (5) feet horizontally from the walls of a spa or hot tub.
- All metal parts of electric equipment within five (5) feet of a spa's or hot tub's walls, as well as all electrical associated equipment of a spa or hot tub, shall be bonded together through a common grid by not less than a No. 8 solid copper conductor - insulated, covered or bare.
- Grounding required per NEC 680-25 for panelboards, motors, and lights.
- An equipotential bonding grid is required to reduce voltage gradients in the hot tub area per NEC 680.26.

Indoor Installations

- Electrical permit and inspection required.
- A spa or hot tub shall be wired per NEC Chapter 3.
- Conductor and overcurrent devices to be 125% of rated current of unit.
- Receptacles to be a minimum of six (6) feet from inside wall of a spa or hot tub.
- A spa or hot tub must have at least one receptacle between six (6) feet and ten (10) feet of the inside wall.
- All receptacles within ten (10) feet of inside walls to have G.F.C.I. protection.
- Lighting fixtures, lighting outlets, and ceiling fans located over or within five (5) feet from the inside walls shall be a minimum of 7'6" above maximum water level and be protected by G.F.C.I.
- Wall switches are not to be located within five (5) feet horizontally of the inside walls of a spa or hot tub.
- All metal parts of electric equipment associated with the spa or hot tub water circulating system, including pump motors and all metal surfaces within five (5) feet of the inside walls of a spa or hot tub, are to be bonded together by a copper bonding jumper - insulated, covered, or bare - not smaller than No. 8.
- All electric equipment located within five (5) feet of the inside wall of a spa or hot tub and all electric equipment associated with the circulating system of a spa or hot tub shall be grounded per Article 250.
- All electric spa and hot tub water heaters shall be listed and shall have the heating elements subdivided into loads not exceeding forty-eight (48) amperes. Circuit conductors and overcurrent devices shall not be less than 125% of the total load of the nameplate rating.
- All self-contained spas or hot tubs, or a package spa or hot tub, shall be protected by a ground-fault circuit-interrupter.
- An equipotential bonding grid is required to reduce voltage gradients in the hot tub area per NEC 680.26.