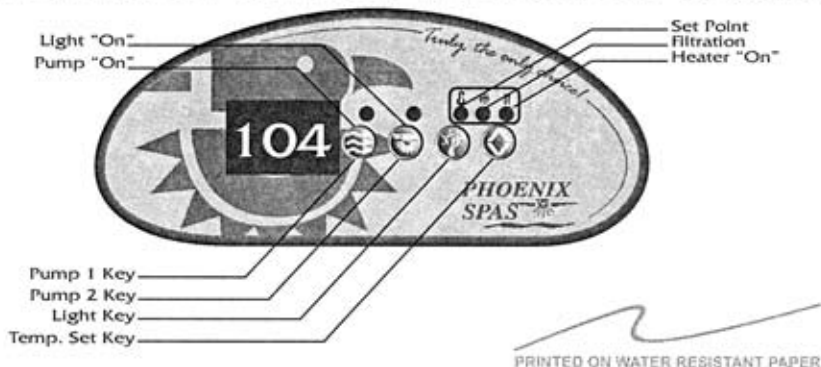


# EC-2 SPASIDE REMOTE CONTROL PANEL



**Default System Operation:** When power is applied, or there is a temporary loss of power, the system will initiate its default programming. The filter cycle will begin 24-hours after the system has been powered up. The filtration cycle will be active for 1-hour and will repeat every 24-hours. The temperature will be maintained at 95°F.



**Pump 1 Key:** Press this key once to turn pump 1 onto low speed, press this key a second time to turn pump 2 onto high speed, a third press will turn pump 1 off. A built-in timer will turn pump 1 off after 20-minutes of continuous operation unless done so manually. The Pump 1 indicator light will illuminate during pump operation. If the Filtration indicator is illuminated, a filtration cycle has begun and the pump cannot be turned off.



**Pump 2 Key:** Press this key to turn pump 2 onto high speed, a second press will turn pump 2 off. A built-in timer will turn pump 2 off after 20-minutes of continuous operation unless done so manually. The Pump 2 indicator light will illuminate during pump operation.



**Light Key:** Press this key to turn the light on, a second press will turn the light off. The light will automatically shut off after 2-hours. If equipped with Fiber Optics: Press this key once, "L1" will appear. Press the Light key a second time, "F1" will appear. Use the Up Arrow key to choose color wheel and light on, color wheel off and light on, and both off. The light circuit will automatically shut off after 2-hours. The Light icon will appear while the light is on.



**Temperature Set Key:** Press and hold this key to either increase or decrease the temperature. The temperature can be adjusted in 1°F increments from 59°F to 104°F (5°C to 40°C). When adjusted, the new setting will remain on the display for 5-seconds to confirm the change. During this time the Set Point indicator will be illuminated to note that this is the set temperature and not the actual temperature. After 5-seconds the display will revert back to the current temperature reading. When the spa water temperature falls 1°F below the set temperature the pump and heater will be turned on until the temperature rises to 1°F above the set temperature. The Heater On indicator will be illuminated when the heater is on.

**Freeze Protection:** If the spa water temperature drops below 59°F the "Smart Winter Mode" will be activated for a period of 24-hours. If the pump has not been activated in the last 2-hours it will be turned for a period of 1-minute. This frequency will decrease as the temperature drops. If the spa water temperature drops to 49°F the pump and heater will be activated until the spa water temperature reaches 50°F. While in this second mode of freeze protection, control over the spa will be disabled until the water has heated sufficiently. The Filtration indicator will be illuminated while in this mode of operation.

**High Temperature:** If the spa water temperature exceeds 112°F at the temperature sensor 3 flashing dots will appear below the temperature display and the heater and all other outputs (pump(s), light etc.) will be turned off. If the spa water temperature exceeds 119°F at the high-limit sensor, only the heater will be turned off. Once the spa water has cooled it will be necessary to cycle power to the spa off then on again to reset the system for normal use.

**Programming Filter Cycle Frequency:** You may choose to filter your spa 1, 2 or 3 times daily as required to keep your water clean and sanitary. Press and hold the Pump 1 key, the current number of filtration cycles per day will be displayed. Press and hold the Temperature Set key to either increase or decrease the frequency of cycles per day. Again, press and hold the Pump 1 key to start the filtration cycle and save the new changes. This will repeat every 8, 12 or 24 hours **starting at the time filtration was programmed**. It is recommended to schedule filtration cycles at non peak hours of the day for energy conservation and times that won't interfere with sleep.

**Programming Filter Cycle Duration:** You may choose to filter your spa 60, 120, 180 or 480 minutes per cycle as required to keep your water clean and sanitary. Press and hold the Light key, the current duration of the filtration cycle will be displayed. Press and hold the Temperature Set key to either increase or decrease the duration of the filtration cycle. Again, press and hold the Light key to start the filtration cycle and save the new changes.

## Error Identification & Service



If 3 flashing dots appear below the temperature display an error and a need for service has occurred. (Contact Your Local Dealer for Service)



If the actual spa water temperature greatly differs from the displayed temperature or the display reads a constant 33°F, a temperature sensor error and a need for service has occurred. (Contact Your Local Dealer for Service)



If 3 flashing below the temperature display and the temperature displayed is 112°F or higher, and over temperature condition and a need for service has occurred. (Contact Your Local Dealer for Service)

**NOTE:** If you notice the pump(s) coming on for seemingly no reason throughout the day, the system may be in "Smart Winter Mode". If you cannot control some functions of the spa be sure to check to see if the Filtration indicator is illuminated. The spa may be in the midst of a filtration cycle. Freeze Protection and Over temperature condition will also limit or disable spa functions.