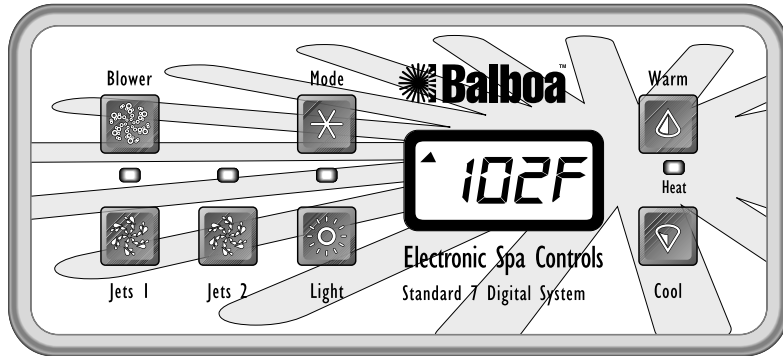


# 7-Button Serial Standard Digital Control System



Quick reference card

## Start Up


Your spa control has been specifically designed so that by simply connecting the spa to its properly grounded source, the spa will function properly and safely at 100°F. When your spa is first actuated, the LCD will alternately flash *Econ*, the current spa temperature, and *COOL* until the spa water is less than 15°F cooler than the set temperature. During each filter cycle, the spa will heat to the set temperature.



## Temperature Adjustment

The current temperature is constantly displayed on the LCD. Press either  or  once to display the set temperature. (The set temperature is designated by a triangle in the upper left corner.) Each time either pad is pressed again, the set temperature will increase or decrease depending upon which pad is pressed. After three seconds, the LCD will automatically display the current spa temperature.


## Jets 1

Touch the left  pad once to activate the low speed of the pump, and again for the high speed of the pump. Press the “Jets 1” pad again to turn off the pump. The low speed of the pump runs when the heater is turned on, when a filter cycle is activated, or when a freezing condition is detected. If automatically activated, the low speed of the pump cannot be disabled from the front panel; however, the high speed may be started. The pump will turn off automatically after some period of operation.


## Jets 2

Touch the right  pad to turn the 2nd pump on and off. It will turn off automatically.


## Blower

Touch the  pad to turn the blower on and off. The blower will turn off automatically.

## Light

Press the  pad to turn the spa light on and off. The light will turn off automatically.

## Standard and Economy Mode

Press  to switch between modes. Economy mode only heats water during filter cycles. Standard mode maintains the desired set temperature at all times.

## Preset Filter Cycles

Your spa will automatically filter itself twice a day. The first filter cycle will start one minute after the spa is powered up. The second filter cycle will begin twelve hours later. The blower will run briefly at the start of the first cycle to clean out the air channel. The low speed of the pump will run during filter cycles (unless the high speed of the pump is on) and the heater will be on. Filter cycle duration is set by your dealer. Call your dealer if you desire a different filter length.

## Freeze Protection

If the high-limit sensor detects 40°F at the heater, then the pumps automatically activate to provide freeze protection. The equipment stays on until the sensor detects 45°F at the heater. Freeze protection is enabled regardless of spa status. In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions. See your dealer for details.

## Display Messages

*Econ* “Economy”

The spa is in economy mode. *Econ* is flashed alternately with the current spa temperature and *COOL* until the spa water is 15°F cooler than the set temperature.

*OH* “Overheat” (Spa is deactivated)

The spa has shut down. Either the water has reached 112°F, or the high-limit sensor has detected 118°F at the heater. DO NOT ENTER THE WATER. Remove the spa cover and allow the water to cool. At 110°F, the spa should automatically reset. If the spa does not reset, then shut off power to the spa and call your dealer or service organization.

*FLO* “Flow” (Flashing alternately with temperature)

The filter may need cleaning. The water level may be low. Be sure flow valves are open.

*FLO* “Flow” (Not flashing)

A pressure switch has malfunctioned. Contact your dealer or service organization.

*COOL* “Cool”

The spa water is more than 20°F cooler than the temperature last set. No action is required. Spa is functioning properly.

*ICE* “Ice” (Freeze protection)

If a freeze condition is detected, the pumps are automatically activated. This is a normal spa function; no corrective action is necessary. Freeze protection is enabled regardless of spa status.

*Sn1* “Sensor 1” (Spa is shut down)

The high-limit sensor is not working. Call your dealer or service organization.

*Sn3* “Sensor 3” (Spa is shut down)

The main sensor is not working. Call your dealer or service organization.

