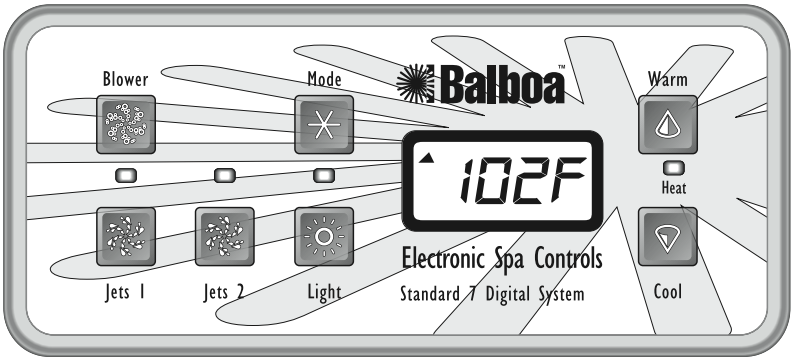
2000LE Control Reference Card

Initial Start-up

When your spa is powered up, it begins running in Standard mode, which will automatically heat and maintain the water at 100°F or your desired set temperature. Press the pad to switch the spa to Economy mode; this setting is designed for periods of little or no spa use, but the spa continues to filter twice a day to maintain water quality.



Temperature Adjustment (40°F - 104°F)

The current temperature is constantly displayed on the LCD. Press either or once to display the set temperature. Each time either pad is pressed again, the set temperature will increase or decrease depending on which pad is pressed. After three seconds, the LCD will automatically display the current spa temperature.

Jets 1

Press the pad to turn on the low speed of pump 1. Press the pad again to turn on the high speed of the pump. Press the pad a final time to turn off the pump. Due to Automatic Spa Control, the low speed of the pump will start automatically when there is a demand for heat or when a filter cycle is activated. If the low speed of the pump is on under Automatic Spa Control, it cannot be deactivated from the panel; however, the high speed of the pump may be started. If left on, the low speed of the pump will automatically turn off after 4 hours; the high speed will turn off after 15 minutes.

Jets 2

Press the pad to turn on the low speed of pump 2. Press the pad again to turn on the high speed of the pump. Press the pad a final time to turn off the pump. If left on, the low and high speeds of the pump will automatically turn off after 15 minutes.

Blower

Press the pad to turn the blower on and off. If left on, the blower will automatically turn off after 15 minutes.

Light

Press the pad to turn the spa light on and off. If left on, the light will automatically turn off after 4 hours.

If a fiber optic light is installed, press the pad once to start the light and wheel, press it again to stop the wheel and again to turn the light off.

Standard and Economy Mode

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

Preset Filter Cycles

Your spa will automatically filter itself twice each day. The first filter cycle will begin 1 minute after the spa is energized. The second filter cycle will begin 12 hours after the start of the first filter cycle. Filter duration is programmable at the topside panel for 2, 4, 6, 8 or 12 hours. The default filter time is 2 hours. To program, press the "Warm" or "Cool" pad, then the "Jets 1" pad. Press the "Warm" or "Cool" pad to select the filter duration. Press the "Jets 1" pad again to exit the programming mode. During filtration, the low speed of the pump and the ozone generator (if installed) will run. Pump 2 will purge for one minute, and the blower will run for 30 seconds at the start of the first filter cycle to clean out the air channel.

Systems with a circulation pump: If your spa has a circulation pump and an ozone generator, each will run 24 hours per day to constantly maintain the spa water. Also, once a day, the blower will run for 30 seconds and the high speed of the pump will run for 1 minute.

(over)

Freeze Protection

If the high-limit sensor detects 40°F at the heater, then all equipment is automatically activated to provide freeze protection. This is a normal spa function; no corrective action is necessary. The equipment stays on until the sensor detects 45°F at the heater. Freeze protection is enabled regardless of the status of the spa. In colder climates, an optional **additional** freeze sensor may be added to protect against freeze conditions. See your dealer for details.

Diagnostic Messages

OH

Overheat Protection (Spa is deactivated)

DO NOT ENTER THE WATER. If the spa water has reached 112°F, remove the spa cover to cool the water. Overheating may occur if the filter cycle is set too long. At 110°F, the spa should reset itself. If the high-limit sensor detects 118°F at the heater, the spa will shut down. When the heater cools to 110°F, press any button to reset the spa. If the spa will not reset, then shut off power to the spa and call your dealer or service organization.

FL

Flow Switch (Not Flashing)

A pressure switch is not working. Call your dealer or service organization.

Sn

Sensor (Spa is deactivated)

A sensor is not working. Call your dealer or service organization.

Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

Balboa Instruments Incorporated
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