BALBOA SCS 501
OPERATING PROCEDURE

INITIAL START-UP

When your Spa is first powered up, it will go into a Priming Mode, indicated by 'Pr' on the LCD readout. The Priming Mode will last for less than 4 minutes and then the Spa will begin normal operation. The Heater Light will flicker when Priming, or when the system is self testing.

DEFAULT PRE-SET

The default pre-set temperature has a setting of 37ºC in Standard Mode, with a setting of 'F2'.
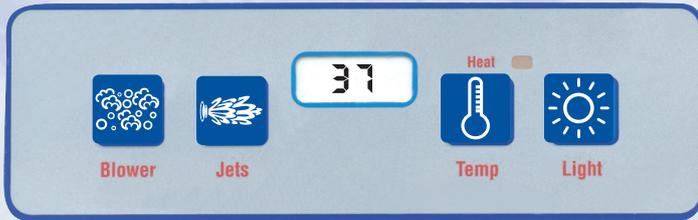
Circulation Pump Models
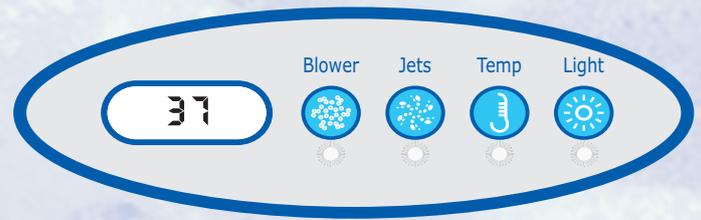
2 Speed Pump Models

JETS BUTTON

Press the 'Jets' button once to turn the Pump on/off.
Circulation Pump Model: If fitted with a 24 hour Circulation Pump, The Circulation Pump runs continuously with the exception of shutting off for 30 minutes at a time in hot environments.
2 Speed Pump: Press the 'Jets' button once to shift between low and high speed if it is a 2 Speed Pump. Press 'Jets' button once for low speed, twice for high speed. If left running, the Pump will turn off after 15 minutes. Low speed automatically turns on during filter cycle, low speed cannot be de-activated during filter cycle, but high speed may be utilised.

Light

Press the ☼ button to turn the Spa Light on/off. If left on, the Light automatically turns off after 4 hours.

Blower

The 'Blower' button turns the Blower on/off. The Blower automatically turns off after 15 minutes.

Temperature Adjustment

Press the 'Temp' button once to display the set temperature. To change the set temperature, press the 'Temp' pad a second time before the LCD stops flashing. Each press of the 'Temp' button will continue to either raise or lower the set temperature.

If the opposite direction is desired, release the pad and let the display revert to the current water temperature. Press the 'Temp' pad to display the set temperature, and again to make the temperature change in the desired direction.

After 3 seconds the LCD will automatically display the last measured Spa temperature.

SETTING STANDARD/ECONOMY & SLEEP MODE

🌡 1. PRESS TEMP BUTTON and then

☼ 2. PRESS LIGHT BUTTON.

Display will read either 'St' (Standard), 'Ec' (Economy) or SL (Sleep) Mode. Repeat steps 1 and 2 until desired mode is reached.

Display will flash alternatively from Temperature to Mode. Standard Mode will show Temperature only.

Standard Mode is programmed to maintain the desired temperature (heating on demand). Note that the last measured Spa temperature displayed is current only when the Pump has been running for at least 2 minutes. 'St' will be displayed momentarily when you switch into Standard Mode.

Economy Mode is programmed to heat the Spa to the set temperature only during 'F' (Filtration) cycles. 'Ec' will display solid when temperature is not current, and will alternate with temperature when temperature is current.

Sleep Mode heats the Spa to within approx 11ºC of the set temperature, only during 'F' (Filtration) cycles. 'SL' will display solid when temperature is not current, and will alternate with temperature when temperature is current.

SETTING 'F' (FILTRATION) CYCLES

The first filter cycle begins 6 minutes approximately after the Spa is energised. The second filter cycle begins 12 hours later. Filter duration is programmable for 2,4,6, 8 hours or for continuous filtration (indicated by 'FC'). The default filter time is 2 hours. If Circulation Pump is used the purpose of the filtration cycles are only to conduct heating in SL and Ec Modes.

At the beginning of each filter cycle the Blower purges for 30 seconds; the Pump purges for 5 minutes.

1. PRESS TEMP BUTTON and then

2. PRESS JETS BUTTON

3. Either

F2 - 2 hours x 2 times per day

F4 - 4 hours x 2 times per day

F6 - 6 hours x 2 times per day

F8 - 8 hours x 2 times per day

FC - Filtration Continuously

Will be displayed on the LCD Screen.

4. PRESS TEMP BUTTON again to change 'F' Cycle hours.

5. PRESS JETS BUTTON once you have selected the desired 'F' Mode.

Message	Meaning	Action Required
	No message in display.	The Topside Panel will be disabled until power returns. Spa settings will be preserved until the next power up.
--	Temperature unknown.	After the Circulation Pump has been running for 2 minutes, the temperature will be displayed.
OH	'Overheat' - The Spa has shut down. One of the sensors has detected 48°C at the Heater.	DO NOT ENTER THE WATER. Remove the Spa Cover and allow water to cool. Once the Heater has cooled, reset by pushing any button. If Spa does not reset, shut off the power to the Spa and call your Dealer or Service Organisation.
Sn	Sensors are out of balance. If alternating with temperature, it may just be a temporary condition, if flashing by itself, Spa is shut down.	If the problem persists, contact your Dealer or Service Organisation.
LF	A substantial difference in temperature has been detected between temperature sensors. This could indicate a low flow problem.	Check water level in Spa. Refill if necessary. If the water level is correct, make sure the Pumps have been primed. Turn Spa off, take out and clean the filters with filter cleaner. Turn Spa back on again to restore heating. If problem persists, contact your Dealer or Service Organisation.
DRY	Inadequate water detected in Heater.	Check water level in Spa. Refill if necessary. If the water level is correct, make sure the Pumps have been primed. Press any button to reset.
Pr then	When the Spa is first activated it will the go into Priming Mode.	Priming Mode will last for up to 4 minutes and Spa will begin to heat and maintain the water temperature in the Standard Mode.