



# **BL-45 OPERATING INSTRUCTIONS**

## **OPERATING THE FILTER**

The filtration pump operates daily, as programmed to filter the spa water (refer to setting filtration cycles). Additionally, the filtration pump will come on automatically whenever the system is calling for heat to maintain the desired temperature. If the pump is off (no heat demand or filtration cycle), the pump can be turned on by pressing the JET touch button which has three positions - low speed for filtration, high speed for jet action and off).

## **SETTING THE FILTRATION CYCLES**

There are six filtration cycles which may be chosen by a dip switch selection which is located on the circuit board in the control module:

- a. 4 hours
- b. 8 hours
- c. 12 hours
- d. 16 hours
- e. 20 hours
- f. 24 hours

Select the desired filtration time by pushing the appropriate dip switch on. The filtration time will start one hour after the switch is turned on. The cycle will repeat every 24 hours. (Note: Some models do not have a dip switch selection. If it is not available there is a preset filtration cycle of 8 hours which will start one hour after power is applied to the unit.)

## **SANITIZER OPERATION**

*(Same as shown in existing manual)*

## **SETTING THE TEMPERATURE**

The temperature may be set to maintain the spa water between 40EF(4EC) and 104EF (40EC). Press and release the TEMP touch button - and the current temperature setting will be displayed for approximately 4 seconds. While the current temperature setting is displayed, press - to increase the set temperature. Each time - is pressed, the set temperature will change. Temperature settings are 40, 60, 80, 83, 86, 89, 92, 95, 98, 99, 100, 101, 102, 103 and 104.

Note: The temperature display only indicates set temperatures of 40, 80, 98, 100, 102 and 104. Therefore it is important that each press of the - button be counted to determine the actual set temperature. For example, if the set temperature is 100 and 103 is desired, press the - touch button three times. The temperature display will indicate 102, however the actual setting is 013.

If the - touch button is pressed and held down, the temperature setting will change rapidly and will stop at 104.

When the maximum temperature of 104EF is set, the next touch of the - button will revert the temperature setting back to EF. Please note there is no temperature decrease button, so if a lower temperature is desired, continue pressing the - touch button back up to the desired temperature setting.

## **OPERATING MODE**

***(Same as existing manual except for selection)***

To select the ECONOMY mode, turn dip switch #4 located on the dip switch board in the control panel to the "ON" position. To select the STANDARD mode, turn the switch to the control panel to the "OFF" position. (Note: On units with no dip switch selection, the economy mode may be obtained by turning down the temperature selection to the 40EF setting)

## **OPERATING THE JETS**

To operate the jets, press and release the JET touch button. A safety shut off timer circuit automatically turns the jets off after 30 minutes of operation. Repeat the above procedure to continue using the jets. Note: 120V systems the heater only operates when the pump is operating in low speed.

## **OPERATING THE SPA LIGHT**

To operate the spa light, press and release the LIGHT touch button. A shut-off timer circuit automatically turns off the spa light after 4 hours of operation.