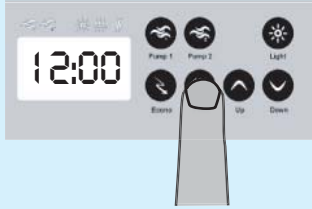


# Programming Options



**Program key:**  
Use Filter key to display time or enter Programming menu by pressing and holding key. In Programming mode, the following parameters can be set: time, filter cycle start time, filter cycle duration, filter cycle frequency, temperature unit and economy settings

Note: Filter key is used as Program key



**Setting the time:**  
Enter Programming mode by holding Filter key pressed down for 5 sec. The display will show the current time setting.

**Setting the hour:** Use Up or Down arrows to change hour setting (AM/PM).

**Setting the minutes:** Press

Filter key a second time. Use Up or Down key to change hour setting.



**Setting filter cycle start time:**  
To program the filter cycle, you must enter these parameters: the start time, duration and frequency.

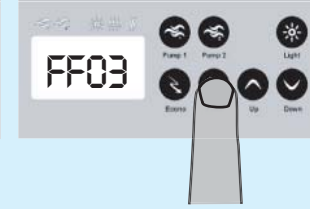
During a filter cycle, pumps run for one minute to purge the plumbing, then Pump 1 runs for the programmed number of hours.

Press Filter key a third time. The display will show FSxx, with "xx" representing the starting hour. Use Up or Down key to change setting.



**Setting filter cycle duration:**  
Press Filter key a fourth time. The display will show Fdxx, with "xx" representing the duration in hours.

Use Up or Down key to change setting.



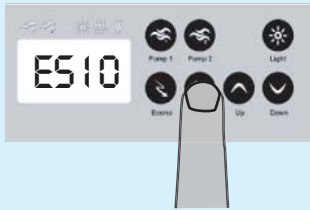
**Filter cycle frequency:**  
Press Filter key a fifth time. The display will show FFxx, with "xx" representing the number of filter cycles per day (up to 4).

Use Up or Down key to change setting.



**Setting economy mode:**  
This mode allows you to lower the temperature set point of the spa by 20 °F (11 °C) during a certain period of the day.

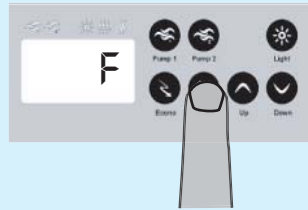
Press Filter key a sixth time. Use Up key to enable the economy mode, the display will show EP 1 or use Down key to disable economy mode, the display will show EP 0.



**Setting economy start time:**  
Press Filter key a seventh time. The display will show ESxx, with "xx" representing the starting hour. Use Up or Down key to change setting.



**Setting economy duration time:**  
Press Filter key a eighth time. The display will show EDxx, with "xx" representing the duration time in hour. Use Up or Down key to change setting.



**Setting temperature unit:**  
Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). Press Prog. key a ninth time. The display will show either °F or °C. Use Up or Down key to change setting.

## Normal Functions

### Smart Winter Mode:

Our Smart Winter Mode protects your system from the cold by turning pumps on several times a day to prevent water from freezing in pipes. (Note: This is not changeable but a feature)

### Cooldown:

While performing these tasks, the heater is not allowed to turn on and its icon flashes. The heater is not allowed also to come on throughout the cool down period of the heater element.



### Water temperature regulation:

In a regulation cycle, the system first generates water flow through the heater housing and the plumbing, in order to ensure accurate water temperature readings as well as avoiding heater activation in dry conditions.

After verifying pump activation and taking a water temperature reading. If required, the system automatically turns the heater on to reach and maintain water temperature to the Set Point.

### Breaker Setting:

The default breaker setting is 40 amps. This only needs to be changed for 120 volt permanent wiring. To change this in the program hold the filter button down for 30sec. Or until "br" is shown (about 20 sec). Make the necessary change with the up/down buttons until correct value is displayed, then press the filter button once more.

Note: This setting is the maximum current the spa can use at any time. Any setting below 20 amps will cause undesirable results. (Note: If your controller does not have a filter button use the light button)

**Normal settings are:** 40 - for 230 volt installation or 20 - for 120 volt installation