



# QUICK REFERENCE CARD

## 600 SERIES CONTROL OPERATION SYSTEMS

**WARNING:** READ ALL INSTRUCTIONS BEFORE USING THE SPA. PDC Spas, PDC International assumes no responsibility for personal injury or property damage sustained by or through the use of this product. When installing and using this equipment basic safety precautions should always be taken to reduce risk of electrical shock, ensure safe usage, and safeguard the user's health.

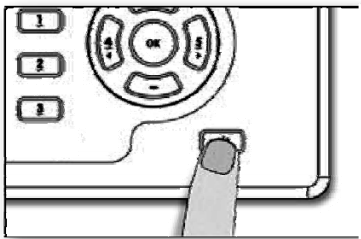
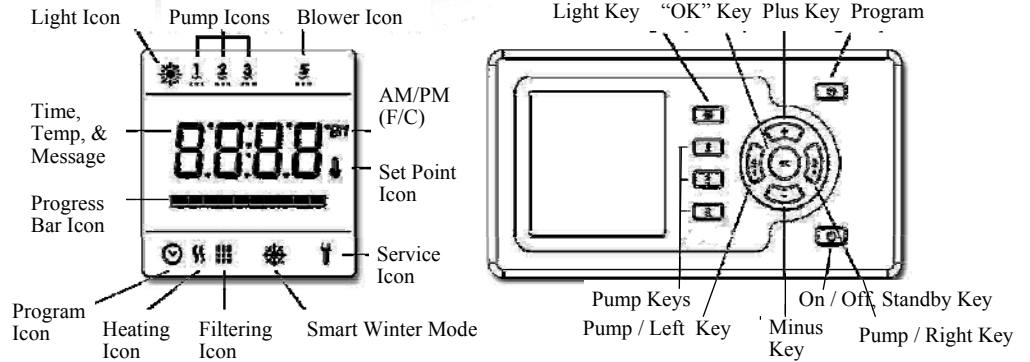



### In.K 600 Series Control

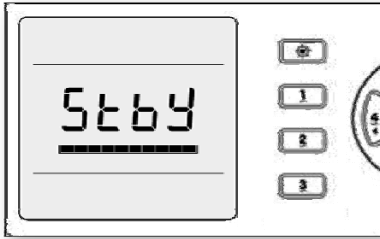
Standard control on LX Series spas



#### Window and Icons

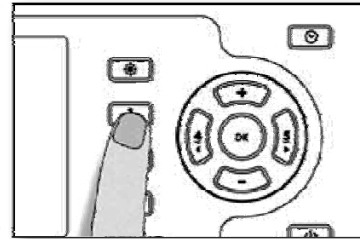


**On / Off Key**   
**Standby Mode:** This mode allows you to stop all outputs and automatic functions with the exception of the heat request for 30 minutes. To enter the standby mode, press and release On/Off key. The display will toggle between the "Stby" message and the water temp. Press the On/Off key again to restart the system before the

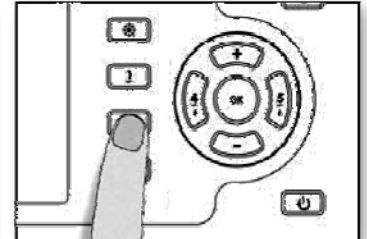


expiration of the 30 minute delay. The spa light will flash a few seconds before the end of the 30 minutes to warn the system is about to resume.

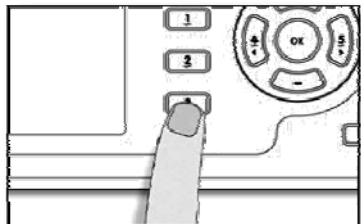
*\* Pump will stay turned on if there is a request for more heat.*



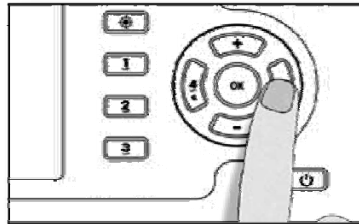
**Pump 1 key**  
 Press **Pump 1** key to turn Pump 1 on at low speed. Press a second time to turn pump to high speed. Another press turns pump off.  
 A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.



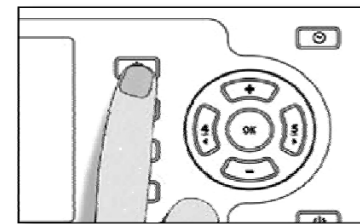
**Pump 2 key**  
 Press **Pump 2** key to turn Pump 2 on at low speed. Press a second time to turn pump to high speed (with a dual speed pump). Press another time to turn pump off.  
 A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.



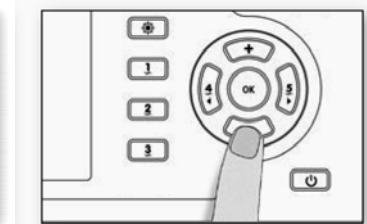
**Pump 3 key**  
 Press **Pump 3** key to turn Pump 3 on at high speed.  
 Press a second time to turn pump off.  
 A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.



**Blower key**  
 Press **Blower** key to turn blower on.  
 Press a second time to turn blower off.  
 A built-in timer automatically turns blower off after 20 minutes, unless blower has been manually deactivated first.



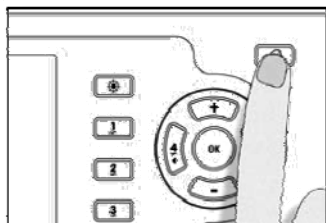
**Light key**  
 Press **Light** key to turn light on.  
 Press a second time to turn light off. Repeatedly turning on/off key toggles between color selections.  
 A built-in timer automatically turns light off after 2 hours, unless it has been manually deactivated first.



**+ / - keys**  
 Use (+) or (-) key to set desired water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.  
 The "set point" icon indicates that the display shows the desired temperature, NOT the current water temperature.



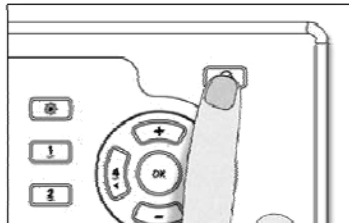
## 600 SERIES CONTROL OPERATION SYSTEMS



### Program key

Use **Program** key to display time or enter Programming menu by pressing , holding key.

In Programming mode, the following parameters can be set: time, filter cycle's start time, duration, frequency, and the choice of temp. display units.

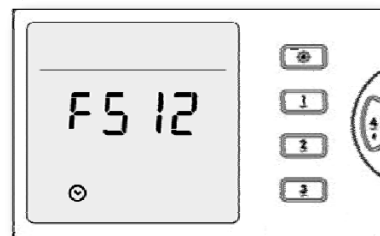


### Setting the time

Enter Programming mode by holding Prog. key pressed down for 3 sec. The display will show the current time setting.

Setting hour: Use (+) or (-) key to change hour setting (AM/PM).

Setting minutes: Press **Ok** key. Use (+) or (-) key to change minutes setting.



### Setting filter cycle start time

To program the filter cycle, enter these parameters: start time, duration and frequency. During a filter cycle, pumps run for one minute to purge the plumbing, then Pump 1 low speed runs for the programmed number of hours.

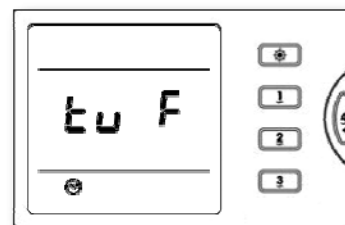
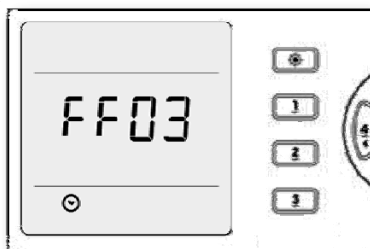
Press **Ok** key a second time. The display will show FSxx, with "xx" representing the starting hour. Use (+) or (-) key to change setting (01:00- 12:00 AM/PM).



### Setting filter cycle duration

Press **Ok** key a third time.

The display will show Fdxx, with "xx" representing the duration in hours. Use (+) or (-) key to change setting (0-12 hours).



### Water temperature regulation

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

After verifying pump activation and taking a water tempreading if required, system automatically turns heater on to reach and maintain water temperature at Set Point.

### Filter cycle frequency

Press **Ok** key a fourth time.

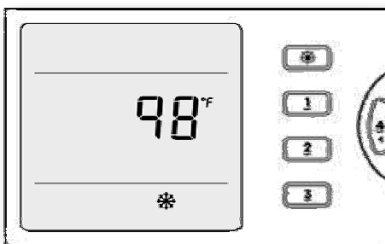
The display will show FFxx, with "xx" representing the number of filter cycles per day (up to 4).

Use (+) or (-) key to change

### Setting temperature unit

Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C).

- Press **Ok** key a fifth time.
- The display will show either °F or °C.
- Use (+) or (-) key to change setting.
- Press **Ok** key a last time to go back



### 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.

### 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.



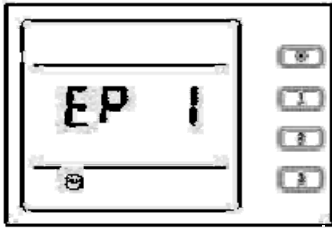
### Manual Economy Mode

This allows energy savings by regulating the water temp 20° F below the actual set point. To enter the manual economy mode, press for 5 seconds on the On/Off key. The display will toggle between the "Econ" message and the water temp.

Press for 5 seconds again on the On/Off key to exit the manual economy mode.



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### Setting Economy Mode

This allows a lower water temp by 20° F below the actual set point during a certain period of the day.

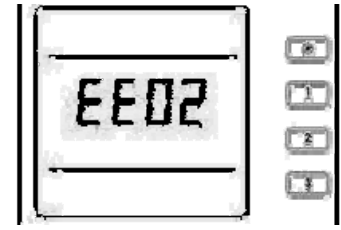
The display will show EPx, “x” representing the state of the programmed economy, (0=disable, 1=enable). Use the Up or Down key to set the program economy to enable or disable. Use the Program or OK key to jump to the next parameter, economy start (ES)



### Setting Economy Start Time

The display will show ESxx, “xx” representing the hour at which the economy mode will become active. Use the Up or Down key to adjust the hour. Use the Program or OK key to jump to the next parameter, economy end time (EE).

When the Economy mode is ON, the display will toggle between the “Econ” message and the water temp.



### Setting Economy End Time

The display will show EExx, “xx” representing the hour at which the system will resume its normal operation. Use the Up or Down key to adjust the hour.

Use the Program or OK key to jump to the next parameter, temp unit (tu).

### In.K 600 Series Control

Standard control on LX Series spas



**Light icon:** The “Light” icon lights up when the light is on.

**Pumps icon:** The “Pump” indicator numbers light up and their icons become animated when pumps are on.

**Smart winter mode icon:** The “SWM” icon automatically turns on when freeze protection is active. It flashes while system purges the spa plumbing.

**Filter Cycle icon:** The “Filter Cycle” icon lights up when filter cycle is on. It flashes when filtering is suspended.

**Heater icon:** The “Heater” icon lights up when the heater is on.

**Program icon:** The “Program” icon lights up when Programming.

**Progress bar:** A visual indication of the time remaining before an equipment is turned off or before the end of the standby mode.

**Set Point icon:** The “Set Point” icon automatically turns on when set point setting menu is activated. (SP displayed). It flashes when:

- 1-there is a call for heat and heater has not started yet,
- 2-heater has just turned off and element is cooling down or,
- 3-if system is performing a check flow

**Service icon:** A problem has been detected. Do not enter the water! Spa service is required.

