

## Quick Reference Card

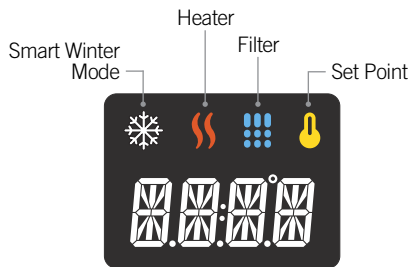
Please consult your spa user manual for complete info on the features of your spa system.



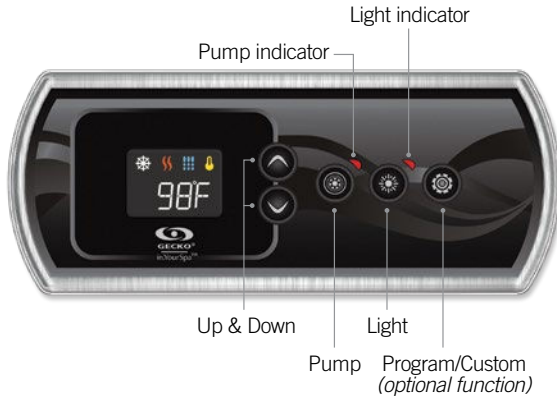
## in.k330 An affordable touch of luxury

The Quick Reference Card provides an overview of your spa's main functions and the operations accessible from your digital keypad. This QRC depicts a generic overlay, custom versions may vary.

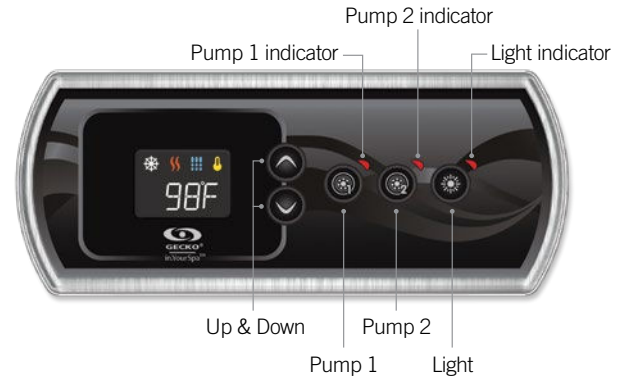
### Description



### 1 Pump Model



### 2 Pump Model



### Spa Functions



#### Off Mode

Pressing **Pump 1** for 5 seconds will enable the Off mode. This mode allows you to stop all outputs including automatic functions such as filter cycle, heat request and smart winter mode for 30 minutes to perform quick spa maintenance. When Off mode is active, the display will toggle between the "OFF" message, the clock and the water temperature. Press **Pump 1** or **Pump 2** (if available) to restart the system before the expiration of the 30 minute delay. When the system resumes its normal operation, the display shows "On" for 3 seconds.



#### Pump 1

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

The "Pump 1" indicator lights up when Pump 1 is on. With a dual-speed pump, the indicator will flash when pump 1 is on at low speed.



#### Pump 2 key

*Not available on all models*

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\*). A third time turns pump off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

The "Pump 2" indicator lights up when Pump 2 is on. With a dual-speed pump, the indicator will flash when pump 2 is on at low speed.



#### Light key

Press **Light** key to turn light on. A second press turns light off. A built-in timer automatically turns light off after 2 hours, unless it has been manually deactivated first.

The "Light" indicator lights up when light is on.



#### Up/Down keys

Use **Up** or **Down** key to set desired water temperature. The temperature setting will be displayed for 2 seconds to confirm your new selection.

The "Set Point" icon indicates that the display shows the desired temperature, NOT the current water temperature!



#### Keypad Lock

*(Available only if the lock feature is enabled in the spa controller configuration)*

You can lock the keypad by selecting one of 2 security levels: *Partial* or *Full*. The *Partial* level locks the set point adjustment and many options in the settings menu. The *Full* level locks all keypad functions.

**Partial lock activation**  
Press both arrow keys simultaneously for 5 seconds. The keypad will display "LocP". Release both keys to engage *Partial* lock.

**Full lock activation**  
Press both arrow keys simultaneously for 5 seconds. The keypad will display "LocP" Keep pressing both arrow keys for 5 more seconds (10 seconds total). The keypad will display "LocF". Release both keys to engage *Full* lock. To unlock the keypad (either *Partial* or *Full*), press and hold both arrow keys for 5 seconds; the "uLoc" message will be displayed for a few seconds as a confirmation.



#### Custom key

This key is available for 1-pump systems only. It is also available only if the spa controller configuration uses a functionality related to the Custom key.

The following functions are available on this key:

- Quick On Off
- Soak
- Auxiliary output
- Off
- Manual Economy

A short press on the **Custom** key will turn on or off the selected mode in the list.

#### Quick On Off

This function allows you to shut down all the active user demands (pump and light) by a key press and resume their state by another press. Activating or deactivating *Quick On Off* mode with the **Custom** key will have no special message being displayed.

#### Soak

This function allows you to soak in silence in the spa. When enabled, *Soak mode* stops all pumps activated by the user as well as the filtration and Smart Winter Mode cycles for 30 minutes.

Water temperature regulation remains active as well as circulation pump if it is configured as "Always On". While *Soak mode* is engaged, the display toggles between the "Sby", the time and the water temperature. The display will show "On" for 3 seconds upon exit of *Soak mode*.

#### Auxiliary output

It allows you to control an auxiliary output. When the

control of the Auxiliary is selected by the **Custom** key, "AUX" blinks on the display. Then, the Auxiliary can be turned On or Off by another press on the **Custom** key. When the Auxiliary output is being turned on, the display shows "On" for 3 seconds. When the Auxiliary is being turned off, the display shows "OFF" for 3 seconds. Auxiliary output will be turned off automatically after 20 minutes if it is not done manually. Note that your spa controller can be configured with a different timeout.

#### Off

*(Described previously in this document)*

#### Manual Economy

This mode allows you to lower the temperature set point of the spa by 20 °F (11 °C). When the Economy mode is ON, the display toggles between the "Eco" message, the time, and the water temperature. The display will show "noE" for 3 seconds upon exit of *Economy mode*.

### Programming Steps

*(Instructions listed in this section assume the Program key is used, but if there is no Program key on the keypad, use the Light key instead.)*



#### Program menu

The program menu is accessible by holding down the **Program** key for 5 seconds. In the program menu the following parameters can be set: clock, filter or purge cycles, economy mode, heat pump mode and temperature units. While in the program menu, use the **Up** or **Down** key to adjust the parameters and use the **Program** key to jump to the next parameter. The changes will be saved after the confirmation of the last parameter only.

If there is no action taken for 15 seconds, the system will exit the program menu and all changes will be saved.



#### Setting the clock

Enter the **program** menu by holding down the Program key for 5 seconds. The display will show the current clock setting with the hour flashing.

Depending on factory settings, your system may be set to 24-hour time or 12-hour time. An additional dot can be lit under the ":" separating hours and minutes to serve as an AM icon.

Setting the hour:  
Use the arrow keys to adjust the hour. Press the **Program** key to jump to the next parameter, the minutes.

Setting the minutes:  
Use the arrow keys to adjust the minutes. Press the **Program** key to jump to the next parameter, the filter or purge start time (FS).

#### Programming the filter/purge cycles

Depending on system configuration, your spa will perform either a filter or a purge cycle. The filter cycle menu consists of the following parameters: the start time (FS), the duration (Fd) and the frequency (FF). The purge cycle menu consists of the following parameters: the start time (FS) and the frequency (FF).

A filter cycle consists of starting all the pumps and blower in high speed for 1 minute (purge step) then, the pump associated with the filter will run in low speed for the remaining duration of the filter cycle (clean step).

A purge cycle is used when the spa is equipped with a 24 hour circulation pump which provides a continuous clean step. It consists of starting all the pumps and blower in high speed for 1 minute.



### Setting filter or purge cycle start time

The display will show **FSxx**, “xx” representing the starting hour of the cycle. Use the arrow keys to adjust the hours. Use the **Program** key to jump to the next parameter, filter duration (**Fd**).



### Setting filter cycle duration (not available on purge systems)

The display will show **Fdxx**, “xx” representing the duration in hours of the filter cycle. Use the arrow keys to adjust the duration. Use the **Program** key to jump to the next parameter, filter or purge frequency (**FF**).

0 = no filtration  
24 = continuous filtration

It is not recommended to set this to “0”.



### Setting filter or purge cycle frequency

The display will show **FFxx**, “xx” representing the number of cycles per day. Use the arrow keys to adjust the frequency. Use the **Program** key to jump to the next parameter, economy mode (**EP**).

!!! The “Filter cycle” indicator lights up when filter is on and flashes when suspended.



### 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.

The display will show **EPx**, “x” representing the state of the programmed economy (0 = disabled, 1 = enabled). Use the arrow keys to enable or disable economy mode. Use the **Program** key to jump to the next parameter, economy start time (**ES**).



### Setting economy start time

The display will show **ESxx**, “xx” representing the hour at which the economy mode will become active. Use the arrow keys to adjust the hour. Use the **Program** key to jump to the next parameter, economy duration (**Ed**).

When the Economy mode is ON, the display will toggle between the “Eco” message, the time, and the water temperature.



### Setting economy duration

The display will show **Edxx**, “xx” representing the duration in hour of the economy mode. Use the arrow keys to adjust the hour. Use the **Program** key to jump to the next parameter, heat pump regulation mode.

24 = continuous economy

*Note that the parameters for the economy mode settings are associated to specific low level configuration of the system that are not present in all software revisions.*



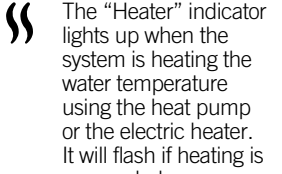
### Heat pump regulation mode

(Available only if a Gecko Brand Heat Pump (in.temp) is connected to your spa setup)

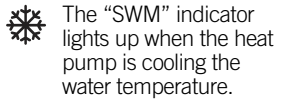
The Regulation Modes will help you set up your ideal Heat Pump regulation settings. Use the arrow keys to choose one of the following modes depending on your need:

- EcoH (Eco Heat)
- HEAT (Smart Heat)
- AUTO (Eco Auto)
- SMRT (Smart Auto)
- COOL (Cool)
- ELEC (Electric)

Use the **Program** key to jump to the next parameter, temperature unit.



The “Heater” indicator lights up when the system is heating the water temperature using the heat pump or the electric heater. It will flash if heating is suspended.



The “SWM” indicator lights up when the heat pump is cooling the water temperature.

### Heat pump modes

#### EcoH (Eco Heat)

In this mode, the heat pump is used as the unique source of heating. The heating element is kept off and the heat pump is not used to cool the water should its temperature rise above the current set point.

#### HEAT (Smart Heat)

This mode uses the heat pump as the main heating source. The heating element is turned on only if there is a large temperature difference between the water and the set point. The heat pump is not used to cool the water in this mode.

### AUTO (Eco Auto)

This mode borrows functionality from both Eco Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is never activated in this mode.

### SMRT (Smart Auto)

This mode borrows functionality from both Smart Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is activated only if there is a large temperature difference between the water and the set point.

### COOL (Cool)

This mode uses the heat pump in cooling mode only. The heat pump is not used as a heating source and the heating element is never activated.

### ELEC (Electric)

This mode keeps the heat pump off and uses only the heating element to regulate water temperature.



### Setting temperature unit

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

Use the arrow keys to change the setting. Use the **Program** key to save all the parameters.



### 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.

The “SWM” indicator lights up when freezing is detected and flashes when the pump is active.



### Water temperature regulation

Every 15 to 90 minutes the pump will run to ensure accurate water temperature readings as well as avoid 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 at Set Point.

Indicator flashes when taking water temperature reading.

### Cooldown

After heating the spa water to the desired Set Point, the heater is turned off, but its associated pump (Pump 1 low-speed or CP) remains on for a predetermined period of time to ensure adequate cooling of the heating element, prolonging its useful life.

## Troubleshooting section

Should an error occur, the display will show one of the following error messages toggled with the clock and the water temperature.

Code	Description	Code	Description
<b>HL</b>	<b>The system has shut the heater down because the temperature at the heater has reached 119°F (48°C).</b> Do not enter the water! Remove the spa cover and allow the water to cool down, then shut power off and power your spa up again to reset the system.	<b>UPL</b>	The spa control does not have valid software. Please insert valid in.stick to reprogram spa control.
<b>FLO</b>	<b>The system does not detect any water flow while the primary pump is running.</b> Check and open water valves. Check for water level. Clean filter. If the problem persists, call your dealer or service supplier.	<b>CoE</b>	Keypad not communicating with spa control
<b>OH</b>	<b>The water temperature in the spa has reached 108°F (42°C).</b> Do not enter the water! Remove the spa cover and allow the water to cool down to a lower temperature. Call your dealer or service supplier if problem persists.	<b>E-r1</b>	Slave spa control not detected
<b>Prr</b>	<b>A problem is detected with the temperature probe.</b> Call your dealer or service supplier.	<b>HP99</b>	Heat pump error HPxx (01 to 99) See in.temp techbook
<b>ROH</b>	<b>Temperature inside the spa skirt is too high, causing the internal temperature in the spa control to increase above normal limits.</b> Open skirt and wait until error clears.		

