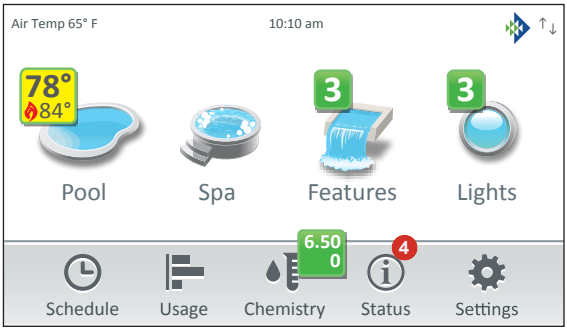
PENTAIR POOL

INTELLICENTER®
CONTROL SYSTEM

USER'S GUIDE



IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

Digital copies of all IntelliCenter manuals can be found at www.pentair.com, or by scanning the provided QR code.

Se pueden encontrar copias digitales de todos los manuales de IntelliCenter en www.pentair.com, o escaneando el código QR proporcionado.

Des copies numériques de tous les manuels IntelliCenter peuvent être trouvées sur www.pentair.com, ou en scannant le code QR fourni.

CUSTOMER SERVICE AND TECHNICAL SUPPORT

Hours: 9:00AM to 7:00PM EST (6:00AM - 4:00PM PST)
Call: (800) 831-7133
Visit: www.pentair.com
Fax: (800) 284-4151

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IMPORTANT SAFETY INSTRUCTIONS



IMPORTANT NOTICE:

Attention Installer: This guide contains important information about the installation, operation and safe use of this underwater pool and spa light. This Guide should be given to the owner and/or operator of this equipment.

Attention User: This manual contains important information that will help you in operating and maintaining this product. Please retain it for future reference.

⚠WARNING Before installing or using this equipment, read and follow all warning notices and instructions in this Guide. Failure to follow warnings and instructions can result in severe injury, death, or property damage. Call (800) 831-7133 for additional free copies of these instructions. Please refer to www.pentair.com for more information related to this products.

⚠WARNING **SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS LIGHT IS NOT INSTALLED AND USED CORRECTLY.**

⚠WARNING **RISK OF ELECTRICAL SHOCK OR ELECTROCUTION!** THIS PRODUCT REQUIRES HIGH VOLTAGE WHICH CAN SHOCK, BURN, OR CAUSE DEATH.

⚠WARNING **Before servicing this equipment always disconnect power to all pool equipment at circuit breaker. Failure to do so could result in death or serious injury to service person, pool users or others due to electric shock.**

⚠WARNING This equipment must be installed by a licensed or certified electrician or a qualified pool professional in accordance with the National Electrical Code (NEC), NFPA 70 or the Canadian Electrical Code (CEC), CSA C22.1.

All applicable local installation codes and ordinances must also be adhered to. Improper installation will create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock, and may also cause damage to property.

⚠WARNING Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.

ANSI - American National Standards Institute

ASME - American Society of Mechanical Engineers

CSA - Canadian Standards Association

IAPMO - International Association of Plumbing and Mechanical Officials

UL - Underwriters Laboratory

IMPORTANT SAFETY INSTRUCTIONS

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. See instructions if interference to radio or television reception is suspected.
Radio and Television Interference

This computer equipment generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly—that is, in strict accordance with Pentair instructions—it may cause interference with radio and television reception. This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. You can determine whether your computer system is causing interference by turning it off. If the interference stops, it was probably caused by the computer or one of the peripheral devices. If your computer system does cause interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.
- Move the computer to one side or the other of the television or radio.
- Move the computer farther away from the television or radio.
- Plug the computer into an outlet that's on a different circuit from the television or radio.
- Make certain the computer and the television or radio are on circuits controlled by different circuit breakers or fuses.

If necessary, consult Pentair Technical Support 1.800.731.3773 or consult an experienced radio/television technician for additional suggestions. Important:
Changes or modifications to this product not authorized by Pentair could void the EMC compliance and negate your authority to operate the product. This product was tested for EMC compliance.

IMPORTANT SAFETY INSTRUCTIONS

Wireless Radio Use

This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

Exposure to Radio Frequency Energy

The radiated output power of this device is well below the FCC radio frequency exposure limits. However, this device should be operated with a minimum distance of at least 20 cm between its antennas and a person's body, and the antennas used with this transmitter must not be co-located or operated in conjunction with any other antenna or transmitter subject to the conditions of the FCC Grant.

Industry Canada Statement

Complies with the Canadian ICES-003 Class B specifications. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. This device complies with RSS 210 of Industry Canada.

Disposal and Recycling Information

This product should be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

California: The coin cell battery in your remote contains perchlorates. Special handling and disposal may be required. Refer to www.dtsc.ca.gov/hazardouswaste/perchlorate.

OVERVIEW

IntelliCenter offers full control of your pool and spa equipment from anywhere inside or outside your home via your smartphone or other mobile devices. It is a scalable system that can be used alongside other popular home automation systems.

- 4" x 3" color touchscreen.
- Day Time and Night Time screen modes
- Up to 100 programmable schedules/ programs for easy system scheduling
- 32 Feature Circuits: Allows additional speeds/programs for a variable speed pump or for an actuator to be assigned without using an existing auxiliary circuit.
- 16 Groups: Assign groups of lights and AUX circuits to allow control by a single button
- Supports up to 16 IntelliFlo® Pumps
- Supports up to four Spa Command® or iS10, two iS4, or one QuickTouch® II wireless remotes.
- Supports up to two Indoor Control Panels
- Valves: Intake/Return plus A and B valve circuits. Expandable up to 10 valves (shared equipment).
- Indoor Control Panel, Wireless Handheld Remote, Outdoor Control Panel
- Supports RS-485 connected heaters
- 39 Auxiliary Circuits (up to three Expansion Enclosures)
- Spa Manual Heat Function
- Support for two Bodies of Water
- Supports multiple heater connection capability (starting from software release v1.047)
- Over-The-Air Software Updates (starting from software release v1.047)
- Spa Side Control Enable/Disable
- Solar Heating Option/Support
- 16 Heat Pump Support
- Heat Pump Cooling Support
- Assignable and Customizable Circuit Names
- Special Circuit Types/Function
- Two Speed Pump Support
- Sensor Calibration
- Password Protection
- USB port compatible with standard flash drives
- Optional WiFi Connectivity

Navigation

The system navigation screen icons are described as follows:


Back: Returns to the previous screen. Tap and hold to return to the Home screen.


Move to next vertical screen (up/down).


Select or add an item. Cancel/Close a screen.


Delete an item.


Select and save an item.


Home screen is Locked (passcode protected). Requires password to access the Home screen.



Edit an item.


Help information. Tap the Help icon to display the contextual on-screen help information.


Green: System status is good (OK)


Blue: System Status Information.


Orange: Warning status condition.


Red: Alert status condition. Note: Badges are displayed on the Home screen Status icon.

Navigation (Continued)



Features and Light Green Number Badge: Indicates the number of Features or lights currently activated.



Status Icon Number Badge: Indicates the number of Alerts and Warnings present in the Status Screen. Items shown in the Status can be selected from the Alerts & Notifications Screen

Note: To select or hide Status Badge icons, see Settings > Alerts and Notifications, on page 45.

Home Screen Pool and Spa Status Badges:



Green Badge. A Green (Schedule) badge displayed on the on the Home screen Pool/Spa icon indicates that a programmed schedule is active.



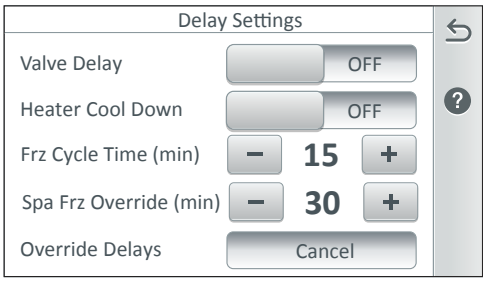
Yellow Badge (Pool/Spa filter pump turned on): A Yellow Badge indicates a delay is in progress. **Delays:** Heat Cool-Down (pump), Valve Rotation Delay, Pump Priming. **Note: For Shared Equipment Systems, when the pool or spa pump is turned on, the Yellow badge displays on the pool or spa icon; not on both at the same time. See page 44 to hide/show Yellow and Blue Badges.**



Blue Badge (Pool/Spa pump turned on): A Blue Badge indicates that the Pool/Spa pump has been turned on manually.

Using Override Delays (see page 88):

- Go to **Delays** and tap **Override Delays**.
- Override Delays will cancel all active delays. If a Schedule is running, a Green Badge will display. If the pool/spa pump is manually enabled (ON/OFF), a Blue badge will display.





Badge Color Changing Sequence:
The color badges shown on left indicate No heater (Off) installed.

Yellow to Green: A schedule has started running.

Yellow to Blue: Pool/Spa pump has been manually turned ON. Blue will stay on until pool/spa pump is manually turned off. Blue Badge will stay on for the Egg Timer duration. If the Egg Timer is set to **Don't Stop** the circuit will run until manually switched off.

Home Screen Connection Indicators

IntelliCenter Control Panel and Wireless Remote icons are displayed in the top right of the Home screen.



Padlock: Indicates the Home screen is passcode protected.



Pentair logo: Indicates connection to **intellicenter2.com** server, see page 85.



Battery indicator and Wireless Signal Strength Icon: Displays on the Wireless Remote.



Green/Yellow/Red Dot: These connection icons display on the Expansion Panel(s), Indoor Control Panel and Wireless Remotes. Green indicates synchronizing with the main Outdoor Control Panel. Red indicates no connection with the Outdoor Control Panel.



Ethernet Icon: ↑ ↓ indicates an active Internet connection.
↑//↓ indicates no Internet connection.

Home Screen Display Icons and Day/Night Theme

For optimal viewing, the color touch screen contrast can be set for daylight, or night time viewing.

To change the Day/Night Theme: From the Home screen, tap Settings > General > Day/Night Themes. Select Day Theme, Night Theme or Transition Type (Manual or Auto).

Change the screen time out delay: If you require the screen to stay on longer and not turn off while setting up system configurations; from the Home screen, tap Settings > General > Backlight, and change the Dim Display and Turn Off Display settings to the desired time in minutes.

Manual Control of Equipment and Functions

The Home screen displays the current pool and spa operating status. The example below shows IntelliCenter model i5PS. Tap an icon to access its control screen to manually control pool and spa equipment. The Home screen displays the installed equipment as configured from the Settings screen.

Configuring Heaters (Heater, MasterTemp, and Max-E-Therm) "Gas" Heater

One heater may be assigned to each body of water in a Dual or Shared Body configuration. The pool or spa may have any "configured" heater assigned to it. It is assigned on the Pool/Spa screen by selecting "Heat Mode". Multiple heat modes per heater type. For example, UltraTemp Only and UltraTemp Preferred. Only one "Gas" heater maybe configured in this system per body. If you define a "Gas" heater for the Pool you may not define a "MasterTemp" for the Pool. Any heater that uses the Solar sensor may only be assigned once. A Solar Heater may not be defined as a Heat Pump or UltraTemp. A Hybrid heaters may be defined as one heater associated with Pool or Spa. **For more information, see page 73.**



Pool	Spa	Features	Lights
Tap the Pool icon to access the Pool screen. Turn pool filter pump and heater ON/OFF. Set pool water temperature. Override the Pool pump while freeze protection is active.	Tap the Spa icon to access the Spa screen. Turn Spa pump and heater ON/OFF. Set Spa water temperature. Override the Spa pump while freeze protection is active.	Tap the Features icon to access the Features screen. Turn Individual or Groups of circuits (ON/OFF.	Tap the Lights icon to access the Lights screen. Turn Individual/ Groups of lights ON/OFF.

Pool/Spa System Configurations

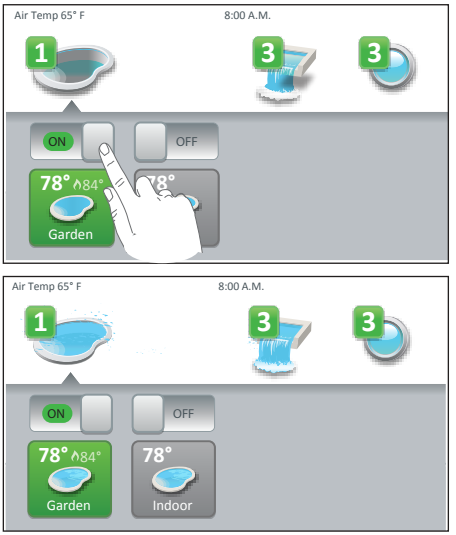
Systems with multiple pools and/or spas (up to two bodies of water total). Depending on the Personality Card installed in the IntelliCenter load center (*see page 96*) a system can be configured as follows:

Single Body (model i5, i8, i10): One set of equipment for a single body of water (pool or spa).

Shared Equipment (i5PS, i8PS, i10PS): One body of water with shared equipment (same pump, heater and filter).

Dual Equipment (i10D): Two separate equipment sets for two separate bodies of water (pool/pool and spa/spa (only one pool or spa icon with draw).

The Home screen displays each additional body of water under the main Pool and Spa icon. Up to two bodies maximum of water can be displayed.



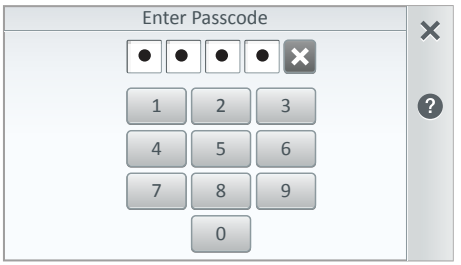
Lower Drawers: An i10D model system can be configured as Pool, Pool or Spa, Spa. Using the lower draws on/off button, each body of water can be turned on or off. *Note: The Home screen shown on the left are passcode protected, see Passcode Protect below for more information.*

Tap the On/Off slide button icon to manually control the pool or spa filter pump and heater for the selected body of water. Tap the Up/Down arrow to display more pools and/or spas. The current settings are displayed above the pool and spa the icon.

Note: To configure the pool and spa systems, see Settings > Advanced System Configuration > Installation Setup > Body Configuration, see page 53.

Passcode Protect

When a screen or individual screen item is Passcode protected a ***lock icon*** is displayed. To access the protected screen or item, tap on the icon and enter the four digit Passcode.



Tap number key pad to enter the four digit Passcode to access the Passcode protected screen.

Note: To setup Passcodes, see Settings > Security on page 45.

Control System Menu Tree

HOME SCREEN

- **Pool Screen**
- **Spa Screen**
- **Features** (Individual/Groups)
- **Lights** (Individual/Groups)
- **Schedules** (Weekly, One Time Only, Schedule)
- **Usage**
- **Chemistry** (Chemical Controller / SCG)
- **Status**
- **Settings:** Refer below for Settings menu.

SETTINGS MENU

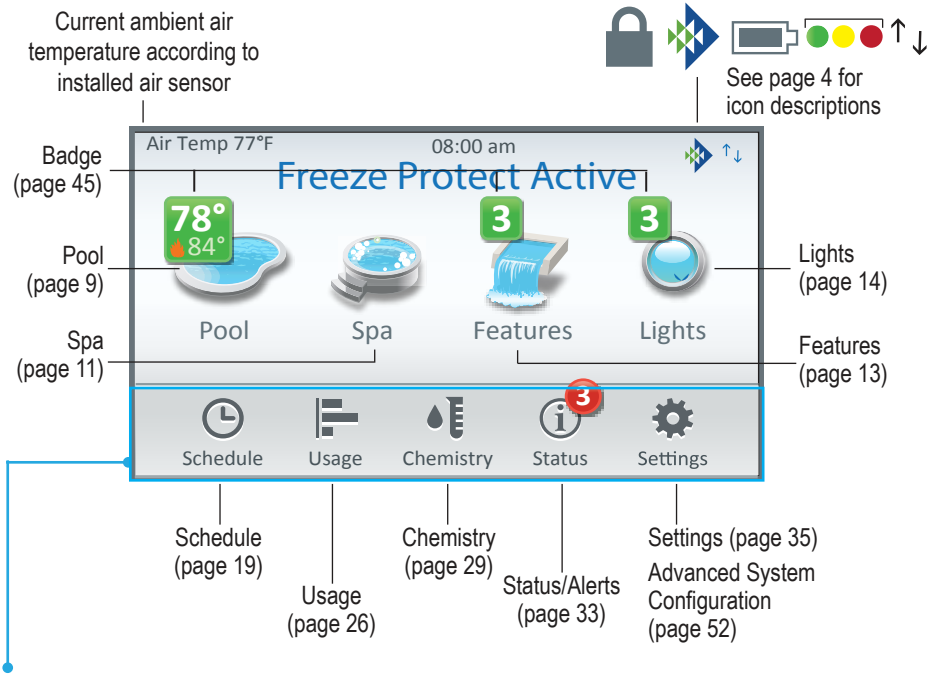
- **Service Mode**
- **Vacation Mode**
- **Support**
- **General:** Location, Date & Time, Temperature Units, Features and Lights List Order, General List Order, Backlight, Temperature Sensor Calibration, Day/Night Themes, Manual Operation Priority, Manual Heat, Chemistry Readings, Badge Colors.
- **Alerts and Notifications:** Choose which system status, alerts and warnings badges to display on the Home screen Status icon.
- **Security** (Password Protect)
- **Pentair User Portal** (www.intellicenter2.com)
- **Groups:** Configure groups of AUX circuits, Light circuits and Feature circuits.
- **Reboot This Panel**
- **Advanced System Configuration:** Refer below for Advanced System Configuration menu.

ADVANCED SYSTEM CONFIGURATION MENU:

- **Installation Setup:** Body Configuration, Circuits, Pumps, Heaters, Valves, Chemistry, Pool/Spa Cover
- **Remotes Setup:** iS4, QuickTouch II, iS10, SpaCommand
- **Network and WiFi Setup:** Configure Ethernet, Connect to a Wireless Network, Internet Connection Test, Reboot Wireless Device.
- **Wireless Remote Setup:** Configure the Address and Panel # for a wireless remote.
- **Delays:** Valve Delay, Heater Cool Down, Freeze Cycle Time, Spa Freeze Override, Override Delays.
- **System:** System Information, Detected Hardware, System Diagnostic Information, Firmware Update, Factory Diagnostics.
- **Import/Export:** Import System Configuration, Export System Configuration.
- **Restore Factory Defaults:** Restore system to factory configuration.
- **Wizard:** Step-by-step system configuration. Refer to *Setup Wizard Navigation, page 36* for more information.

Home Screen

The Control Panel Home Screen displays the current ambient air temperature, and the current system time. Green badges displayed above the Pool and Spa icons show the current water temperature and heater set point temperature. Green badges displayed above the Features and Lights icon show the number of active features and lights that have been manually switched on. The Pentair logo (www.intellicenter2.com connection), Ethernet connection, Wireless Remote signal, and battery strength may also be displayed.



Schedule: Setup your daily pool/spa operations. "**Vacation**" is displayed when operating in Vacation mode.

Usage: Historical usage data.

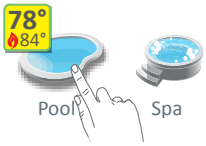
Chemistry: Chemical Controllers and Salt Chlorine Generators. To display pH and ORP readings on Home Screen Chemistry Icon, see page 45. The chemical controller can be configured as stand-alone or to control a salt chlorine generator.

Status: View the current pool/spa status/alerts.

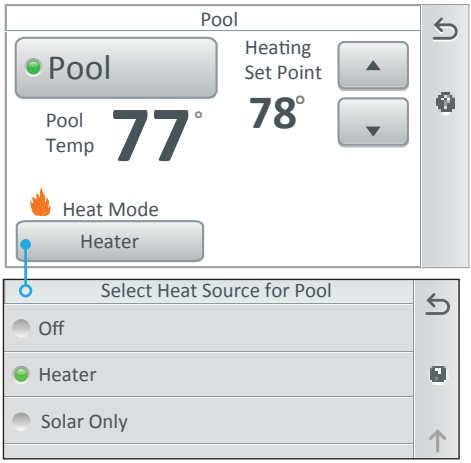
Settings: Setup and configure equipment.

Pool

Tap the Home screen Pool icon to display the Pool Pump control settings screen. From this screen tap the Pool Pump button to activate the pool pump. A Blue badge displayed on the Pool icon indicates the Pool/Spa pump button has been manually turned on. The Blue badge displays until the pump button is turned off. The badge displays the current pool water temperature. If there is a heat source active, a flame icon is displayed with the pool water set point temperature. Note: For more information about screen badges, see page 3.



Pool Badge Icons: A **Flame icon (heat source active)** is displayed with the current heat set point temperature. A **Snow Flake icon** indicates the Heat Pump or Solar Heat (if enabled) is in cooling mode. A **Sun icon** indicates solar heat is active. Select the heat source from the Select Heat Source screen.



Heat Mode indicators:



Flame:	Snow Flake:	Sun:
Heat Source Active	Nocturnal Cool Down	Solar Heat Source

Pool Pump On/Off Button: Tap this button to turn the Pool Pump on to activate the heater. Tap the Heat Mode button to select a heat source. **Note: When the heater is turned it will activate the pool/spa pump when the Heating Set Point is above or at the current water temperature reading.**

Note: Change the Pool or Spa button name, see page 55.

Heating Set Point: Use the Up/Down button to increase or decrease the heat set point temperature.

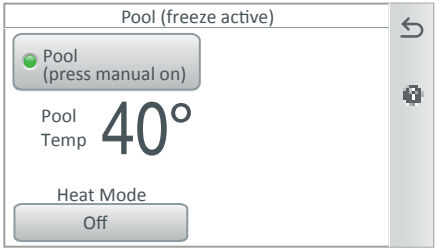
Pool Temperature: Displays the current pool water temperature in Fahrenheit or Celsius.

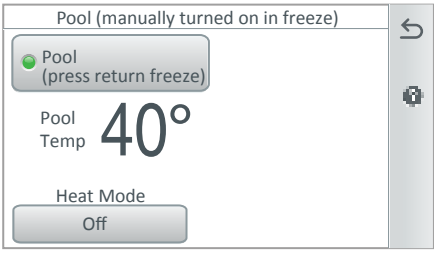
Heat Mode Button: Select the available heat source type: Off (no heat source), Gas, Solar, Heat Pump, MasterTemp, Max-E-Therm, UltraTemp or Hybrid.

Heat Pump Only: Only uses Heat Pump during calls for heating.
Hybrid - Gas Only Mode: Only uses Gas Heater during calls for heating.
Hybrid - Hybrid Mode: Automatically switches between heater and heat pump based on conditions.
Hybrid - Dual Mode: Heat Pump and Gas Heater will run in tandem to provides the fastest possible heat ups.

Pool

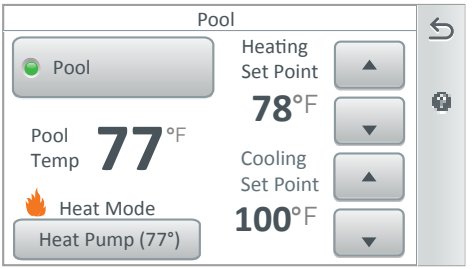
Pool Pump Button (Override Freeze Protect)





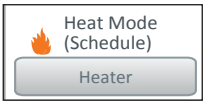
Freeze Protection Override: The pool pump can be manually turned on to override the Freeze protection. This also applies if a schedule is running. To assign freeze protection to a circuit. **See page 59 for more information.**

Schedules (Heat Source and Set Temperature) **See page 20:** See Schedules to schedule the pool/spa pump to turn on at a specific time to pre-heat the pool or spa water. From the Schedules Weekly or One Time Only option, select Heat Source and select a heat source, then set the Set Temperature settings.



Note: For Solar, (77°F) indicates the Solar temperature sensor.

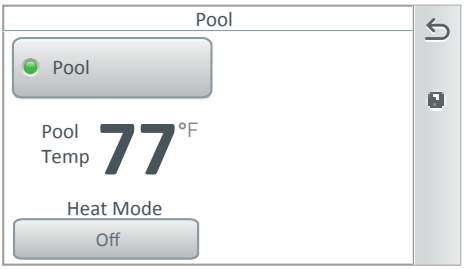
Nocturnal Cooling Set Point Temperature control for Heat Pump or Solar: If using a heat pump, use the Cooling Set Point temperature or solar heat control buttons displayed on the Pool and/or Spa screen to adjust the nighttime temperature of the pool/spa water.

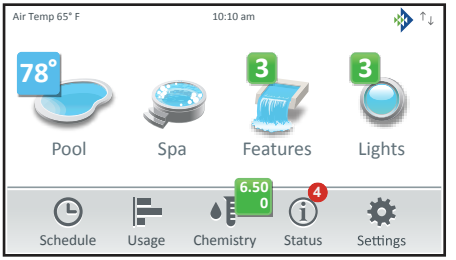


Don't Change Feature (Schedules Heat Source). **See page 19**

Solar Heater: Nocturnal (nighttime) feature provides automatic cooling during night time hours for pools that overheat in hot climates to circulate the warmer pool water to the collector panels when the collector temperature and the pool temperature is hotter than the high limit setting. This process cools the pool water over time. **This feature is also used for Hybrid Heaters and Heat Pumps.**

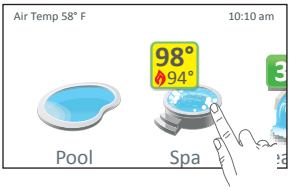
If the Heat Mode is set to Off, the Heating Set Point setting on the Pool screen is not displayed. Tap the Heat Mode button to display the Select Heat Source screen. The Home screen displays a Blue badge over the Pool icon with the current pool water temperature.



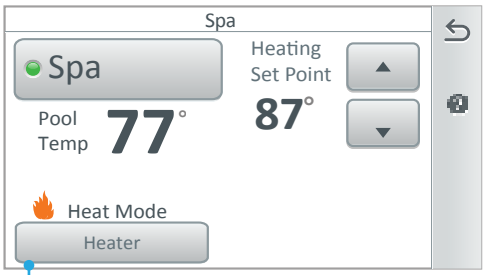


Spa

Tap the Home screen Spa icon to display the Spa Pump control settings screen. From this screen tap the Spa Pump button to activate the Spa heat source. A Blue badge displayed on the Spa icon indicates the Pool/Spa pump button has been manually turned on. The Blue badge displays until the pump button is turned off. The badge displays the current pool water temperature. If there is a heat source active, a flame icon is displayed with the pool water set point temperature source. Note: For more information about screen badges, see page 3.



Spa Badge Icons: A **Flame icon** indicates that the heat source has been called for. A **Snow Flake icon** indicates the UltraTemp (if heat and cool model) Heat Pump or Solar Heat (if enabled) is in cooling mode. A **Sun icon** indicates solar heat is active. Select the heat source from the Select Heat Source screen.



Heat Mode indicators:

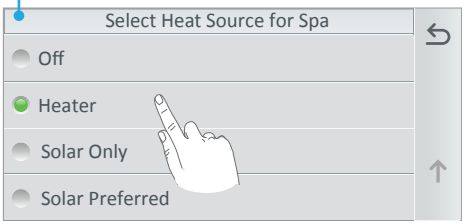


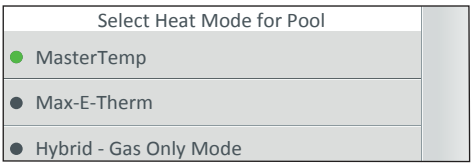
Flame:	Snow Flake:	Sun:
Heat Source Active	Nocturnal Cool Down	Solar Heat Source

Spa Pump On/Off Button: Turn the Spa Pump on to activate the heater. Tap the Heat Mode button to select a heat source. See **page 55** to change the spa button name.

Heating Set Point: Use the Up/Down button to increase or decrease the heat set point temperature.

Spa Manual Heat ON/OFF: When set to ON, overrides current heater settings and schedules to allow manual control of the spa heater settings (on/off and temperature settings), **see page 12.**





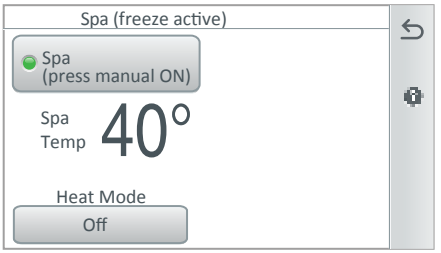
Heat Mode Button: Select the available heat source type: Off (no heat source), Heater, Solar Only, Solar Preferred, Heat Pump (Heat Pump Preferred), UltraTemp, MasterTemp & Max-E-Therm or **Hybrid (see page 76)**.

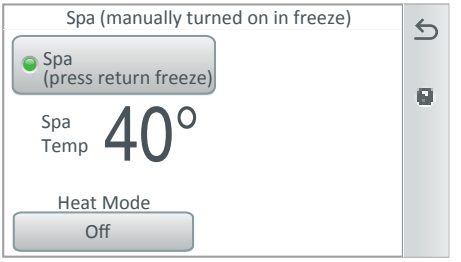
Note: To add a heater, see page 72. To add a circuit go to Settings > Advanced System Configuration > Installation Setup > Circuits, see page 56.

Heat Pump Only: Only uses Heat Pump during calls for heating.
Hybrid - Gas Only Mode: Only uses Gas Heater during calls for heating.
Hybrid - Hybrid Mode: Automatically switches between heater and heat pump based on conditions.
Hybrid - Dual Mode: Heat Pump and Gas Heater will run in tandem to provides the fastest possible heat ups.

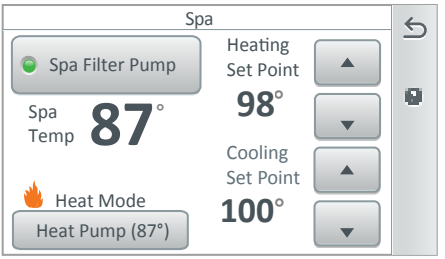
Spa

Spa Pump Button (Override Freeze Protect -See Delay Settings, page 88)





Spa Freeze Override Time: Override the spa pump circuit that has freeze protection active to run the pump and heat the spa during freezing temperatures. This also applies if a schedule is running. **Freeze Cycle Time:** Set the freeze protection time from 5 to 60 minutes to run the pump during freezing temperatures. Default time is 5 minutes. **See page 88 and 59.**

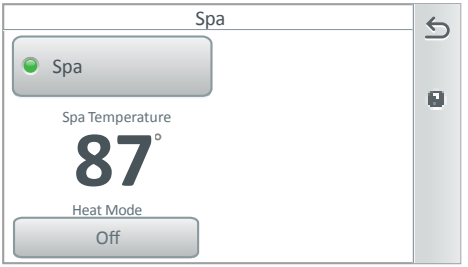


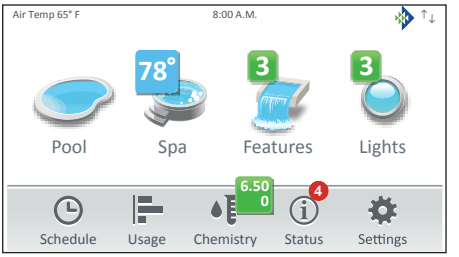
Spa Heater Button: Tap to access the Select Heat Mode screen. Tap the desired heat source (solar or conventional heaters). **Note: Heat sources are configured from Settings > Advanced System Configuration > Installation Setup > Circuits, see page 56. Also see: Manual OP Priority: Manual ON/OFF circuit during a schedule. See page 44.**

Spa Manual Heat ON/OFF: If the Heat Enabled (Default ON), feature is selected and the Spa pump button (or from the Spa-Side remote, or Wireless Controller) is turned on, the pump will turn on and the heater will begin to heat the spa (even if the heater is set to OFF). This feature allows you to program the pool pump to filter daily with the heater set to off, and then be ready to heat whenever the Spa button is pressed. **See page 53.**

Schedules (Heat Source and Set Temperature) See page 20: See Schedules to schedule the pool/spa pump to turn on at a specific time to pre-heat the pool or spa water. From the Schedules Weekly or One Time Only option, select "Heat Source" and select a heat source, then set the Set Temperature settings.

Note: The Heating Set Point setting on the Spa screen is not displayed if Off is selected on the Select Heat Source screen. Tap the Heat Mode button to display the Select Heat Source screen.

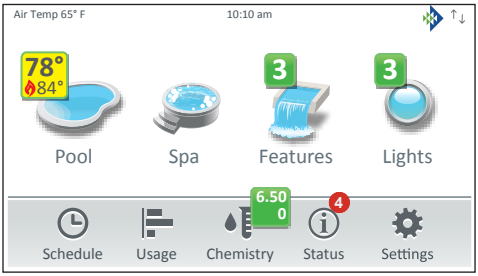




Features



Up to 32 individual or Groups of Feature Circuits can be assigned as a Generic circuit or a Spillway circuit. Tap Features on the Home screen to display the Feature circuits screen. From the Features screen you can manually turn on or off an individual Feature circuit or a group of Features circuits. To assign Feature Circuits, see page 57.



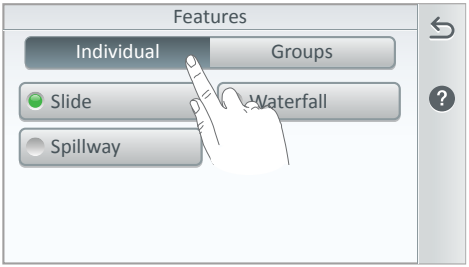
Green Number Badge: Displays the number of active feature circuits. Tap the Features icon on the Home screen to display the Feature circuits. To hide the Features number badge, see page 57.

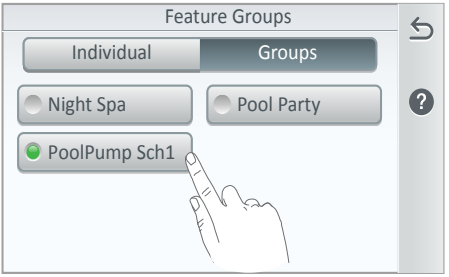
Features: Individual / Groups

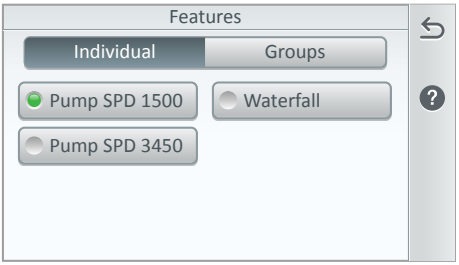
Tap Individual or Groups to display the assigned Feature circuits buttons. Tap the circuit button to switch the individual circuit or a group of circuits on or off.

Feature Groups can include multiple circuits for multiple schedules. You can also set different pump speed using IntelliFlo Pump. Assign each feature circuit a different pump speed to manually control or schedule different pump speeds.

See Installation Setup on page 53, For more about Light Groups see page 49, 56. For Feature Groups see page 51.

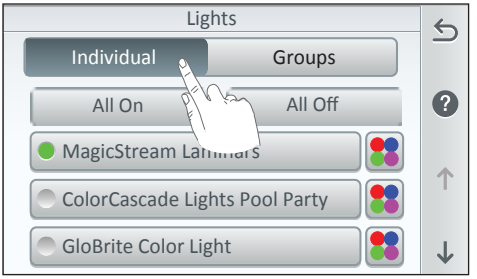




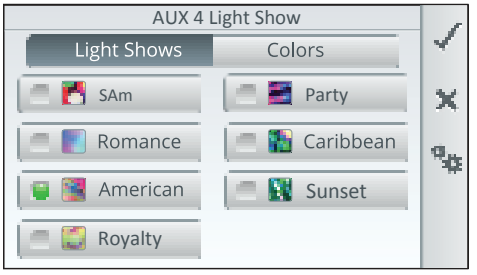


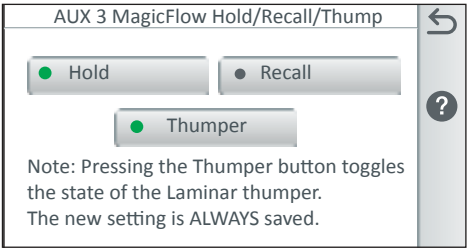
Lights (MagicStream®, IntelliBrite®, ColorCascade® and GloBrite®)

To access the Lights screen, tap the Lights icon on the Home screen. From the Lights screen you can manually turn on or off individual lights, groups of lights or all lights. Lights displayed in the Lights screen are configured from the Circuits screen, **see page 56. Light circuits settings include Schedule Egg Timer and Freeze Protect options. Note: A Green number badge displayed on the Home screen Lights and Features icon, indicates the number of individual and/or groups of lights currently turned on. To hide the number badge on the Features icon, turn Visible in Features OFF.**









All On/All Off Button: Tap the All On or All Off button to turn all light circuits On or Off.

Note: Up to 12 light circuits can be configured.

Lights (Individual/Groups Button): Tap either of these buttons to toggle between the Individual and Groups screens.

Individual: Displays the assigned individual AUX Light circuits. Tap the light name button to turn the light ON or OFF.

Four Color Dots Edit Button: Tap edit button to display the Colors or Light Shows screen.

Light Shows: Tap one of the displayed Light Shows to switch the light show on or off.

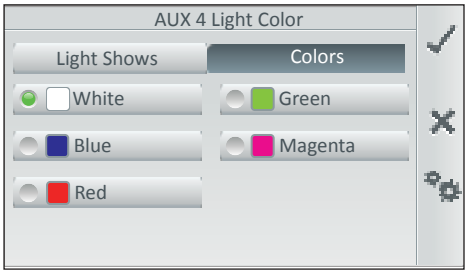
✓**Check:** Tap Check to save changes and return to the Lights screen.

X button: Tap to exit and return to the previous screen without saving changes.

MagicStream Laminar (Light Shows and Colors): Tap the Gears icon to access the HOLD, RECALL and THUMPER toggle features. Tap the Thumper button to activate the built-in solenoid **Thumper** to create a random wrinkle in the laminar's water stream and display a brilliant spot of light that moves along the stream's arc.

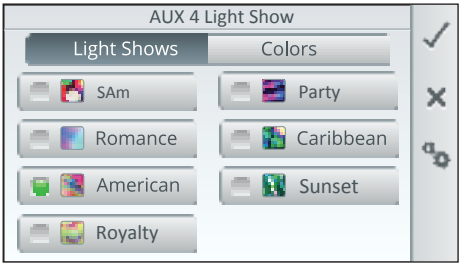
Lights (Fixed Color)

Change a Fixed Color: From the Lights screen, tap the **Color Dots Edit Button** to display the Colors (or Light Shows) screen. From the Colors screen, select one of the displayed color buttons (White, Blue, Red, Green and Magenta). Tap the Check button to return to the Lights screen. Tap the light name button to turn the color light on or off. Tap the Return arrow to return to the Home screen.



Individual Lights – Switch between fixed colors and light shows:

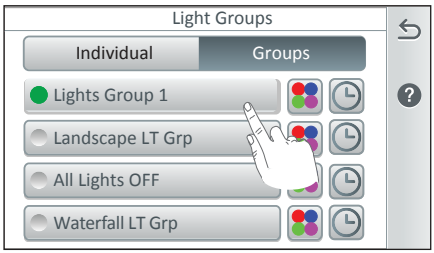
Color Dots Edit Button: Tap this button to display the Colors and Light Shows screen. To display a Light Show, tap one of the Light Show buttons.

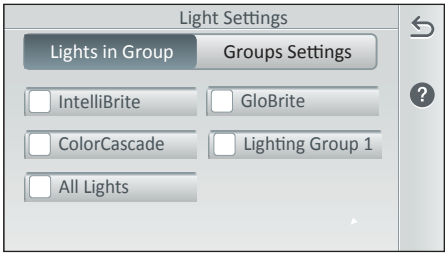


Lights (Groups)

From the **Lights** screen, tap the **Groups** button. To turn on or off a selected group of lights, tap the group of light name button. Light Groups displayed in the Lights screen are configured from the Settings > Advanced System Configuration > Installation Setup > Circuits > AUX Circuits screen. To add a group of lights, tap the **Four Dots icon** to display the Groups screen. **Note: Light Groups can be created from the Lights screen (see page 14), Installation Setup (see page 53), Groups (see page 48), and displayed in the Features screen (see page 58).**

Tap the Edit Pencil icon to display the Light Settings screen. Tap **Light in Group or Group Settings** to change the light Fixed Color and Light Shows in a selected group of lights.

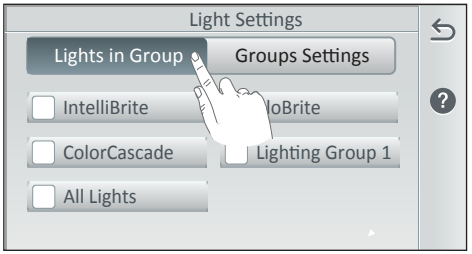




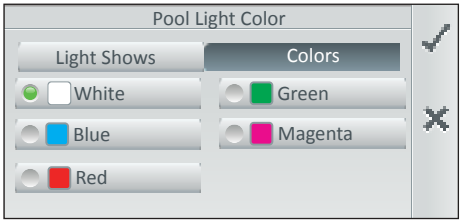
Continue to the next page.

Lights (Groups) Continued

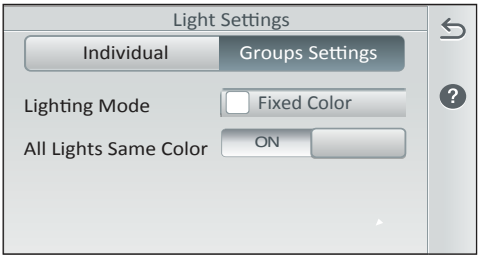
Lights (Groups - Change a Light Color or Light Show)



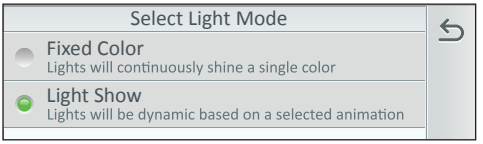
Change a Light Color: The Lights in the Group screen display the lights in the selected group (Fixed Color). To change the color of the selected light in the group, tap the light button and choose the desired color. Tap check to return to the previous screen.



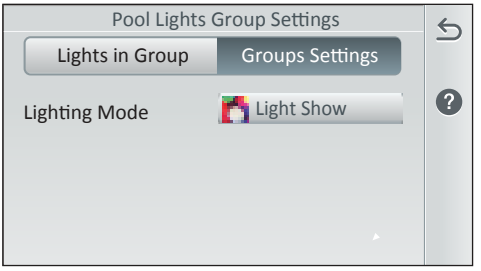
All Lights Same Color (ON/OFF): From the Lights Settings screen, tap the All Lights Same Color ON/OFF button.
ON: All lights in the group are set to the same color.
OFF: Each individual fixed color light can display a different color.
Tap **Light in Group** to view the selected Lighting Mode.

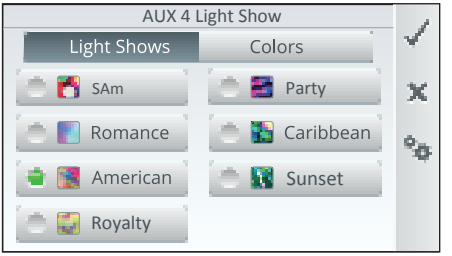


Change a Light Mode from Fixed Color to Light Show: From the **Light Settings** screen, Tap the **Groups Settings** button, tap the **Lighting Mode** button (Fixed Color) and select **Light Show**. Select one of the Light Shows. Tap the Check to return to the Light Settings screen.



Select a Different Light Show: Tap the **Lighting Mode** button and select one of the Light Shows. Tap Check to return to the previous screen.

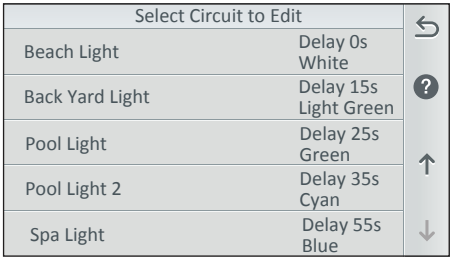


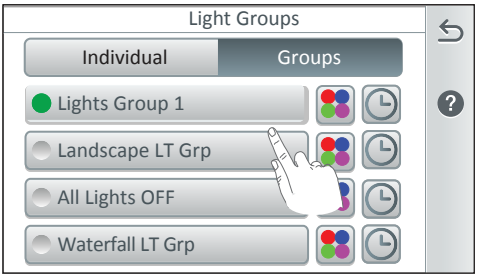


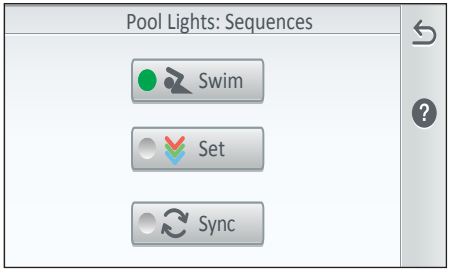
Lights (Groups) Continued

The Light Groups **Sync**, **Swim** and **Set** SAm feature are configured from **Settings > Groups**. For more information about creating light groups, see page 49. From the Groups screen, light groups can be added, and each light color and delay (0 to 60 seconds) from the Groups screen. Select the group of lights to change. Tap **Color Settings**. Set the delays between the lights from 0 to 60 sec.









Groups: Tap the Clock icon to display the Swim, Set and Sync light features.

Lights in Groups: Displays the light circuit name and color. Note: All light will display the same color if **All Light Same Color** is enabled (ON) from the Group Settings screen. To display different fixed colors for each light, select **All Light Same Color (OFF)**.

Swim (SAm Color Swim effect): Tap this momentary button to activate (Green light on) an effect of moving colors across the pool. From the Swim Settings Delays screen set a delay between the lights so that the first light syncs and starts rotating, then the second light starts rotating after that, and the third light rotates after that with a delay between the lights.

Color Set: Tap this momentary button to activate (Green light on) to set the default color for each light then stop the light on one of the selected eight colors.

Sync (SAm Color Swim effect): Tap this momentary button to synchronize (Green light on) all IntelliBrite lights in the group. The Light in the group will go to the beginning of the SAm rotation. After 21 seconds the lights will start rotating each time the button is tapped.
Note: This feature also works for individual legacy SAm lights).

To change the light color or the light delay (from 0 to 60): Tap **Settings > Groups**. Select the group of lights to change. Tap **Color Settings**. Set the delays between the lights from 0 to 60 sec.

Lights (GloBrite® White and Dimmer Light)

From the Lights screen you can manually turn on or off *individual* or *Groups* of **GloBrite or Dimmer lights**. Lights displayed in the Lights screen are configured from the Circuits screen. To access the Lights screen, tap the Lights icon on the Home screen. Tap the light name to manually switch the light circuit on or off (Green light indicates the light is on). **Note: A Green number badge displayed on the Home screen Lights and Features icon, indicates the number of individual and/or groups of lights currently turned on. To hide the number badge on the Features icon, turn Visible in Features OFF. See page 56.**

Configure a GloBrite White Light and Dimmer Light: Go to Settings > Advanced System Configuration > Installation Setup > Circuits, page 56 and 60. Select AUX Circuits, select the light AUX circuit, tap Circuit Function and select GloBrite White or Dimmer.

Dimming Lights (50%, 75%, 100%)
Lights that have dimming functionality can be dimmed from the Lights screen. Only incandescent tungsten filament lights may be dimmed. IntelliBrite, fiber-optic, or halogen lights cannot be dimmed. The feature circuit must be assigned a **Dimmer** circuit function.

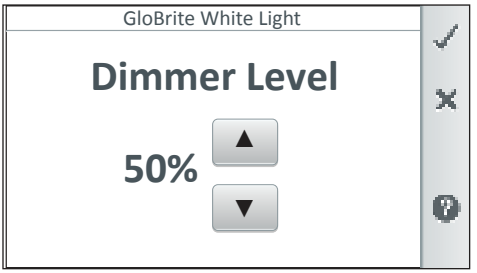
> ***Note: Feature Circuits*** *can turn on light dimming circuits, but lights cannot be dimmed using this feature. The dimming level must be changed for each light dimming circuit.*

GloBrite White & Dimmer ON/OFF Button: On the Lights screen, tap the **Individual button** to display the assigned light circuits. Tap the GloBrite White light or the Dimmer Generic Light button to switch the light on or off. Tap Return Arrow to return to the Home screen.



GloBrite & Dimmer Edit Button: Tap this edit button to display the Dimmer level screen.

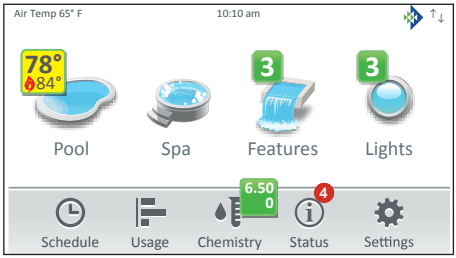
To assign a GloBrite White Light or Dimmer circuit, go to Settings > Advanced System Configuration > Installation Setup > Circuits, page 56 and 60.



GloBrite White Light Dimmer Level: Use the Up/Down arrow button to increase or decrease the brightness levels of the light. Brightness levels are from 50%, 75% and 100% increments.

Schedule

To access the Schedule screen, from Home screen tap Schedule: Select either a **Weekly,** or **One Time Only** schedule. From the Schedule screen you can add, delete, edit, enable and disable schedules. Tap the Add button (+) to add a schedule. To delete a program, tap the program from the list. Tap the Trash Can icon to delete the program from the list.

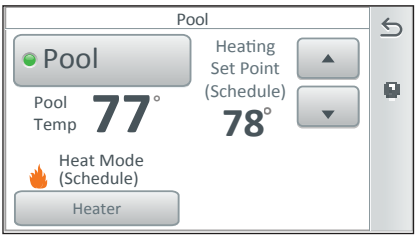


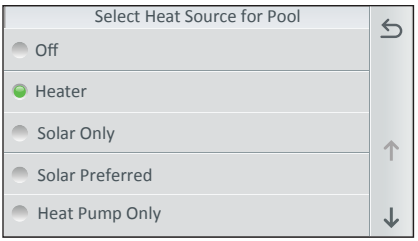


From the Schedule screen you can program On and Off times for circuits (AUX - auxiliary and Feature circuits). Circuits can be scheduled set to turn On or Off all days, weekends, weekdays, or any specific day of the week. Each 24 hour period, equipment (lights, heater, spa jets, filter pump) can be programmed for multiple On/Off times. You can also schedule which heat mode to use and also change the heat set point if necessary. The Schedule screen lists each scheduled circuit(s) start and stop time, and days to run.

One Time Only Timer: This schedule will switch equipment on for the specified amount of time. You can set the desired One Time Only schedule to run the pump for the specified time only.

Heater Cool Down: Default enabled. Provides a two minute-delay in turning off the circulation pump after heater has completed its firing cycle to allow the heater to cool down. **See page 72 for more information.**





Don't Change (Schedule): If Don't Change is selected as the heat source, when a schedule is active you will have the option to select a Heat Mode source from the Pool or Spa screen, which will be used every time the schedule is active. *See Schedules 20*.

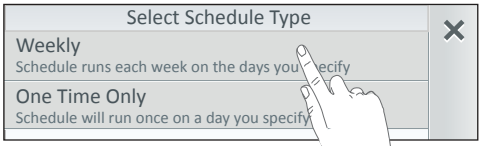
Heat Mode (Schedule) Options: Don't Change (use for Schedules only), OFF, Heater, Solar Only, Solar Preferred, Heat Pump Only, Heat Pump Preferred or Hybrid.

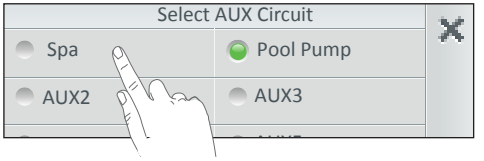
To create a heat source go to **Settings > Advanced System Configuration > Installation Setup > Heaters, See page 72 for more information.**

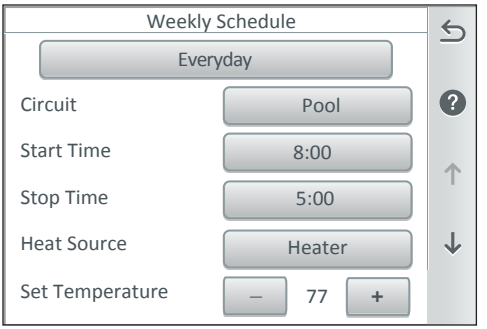
Schedule - Weekly Program

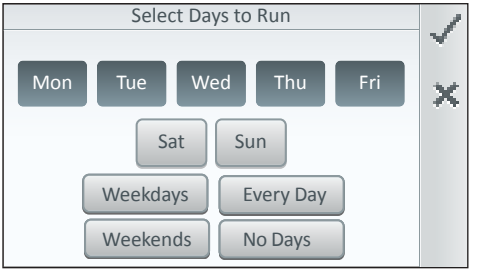
Weekly Program: This feature allows a circuit or group of circuits to switch on and off at a specific time and day. Circuits can be scheduled to turn On or Off everyday, weekends, weekdays, or any specific day of the week. Each 24 hour period, equipment (lights, heater, spa jets, filter pump) can be programmed for multiple On/Off times. You can also schedule which heat mode to use and also change the heat set point if necessary.











Add a Program: From Home screen tap **Schedule > Add Schedule > Weekly** to add a new schedule.
Note: If the system is in Vacation Schedule mode, the Home screen Schedule icon will change to Vacation text, see page 38.

Delete Program: Tap the Trash Can icon and select the schedules to delete from the list, then tap Check and the Yes button to delete.

Weekly: Tap **Weekly** to display the available AUX (auxiliary) circuit, Feature circuits and Groups (circuits and Feature circuits) as defined in the Circuits screen, see page 56.

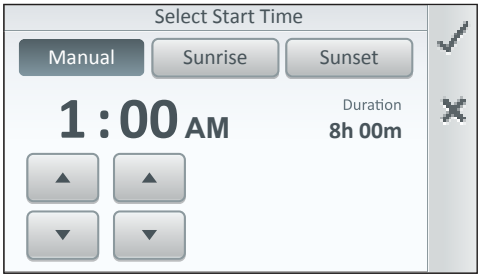
Everyday: Tap Everyday and select the days of the week, Weekdays, Weekends, Every Day, or No Days to run the schedule. Tap **Check** to save and return to the previous screen.

Circuits: Tap Circuit and select a circuit from the assigned circuits list.
Note: Heat Source and Set Temperature options only display for Pool and Spa circuits. Use these options to schedule your pool/spa heater to heat the water at a specified time.

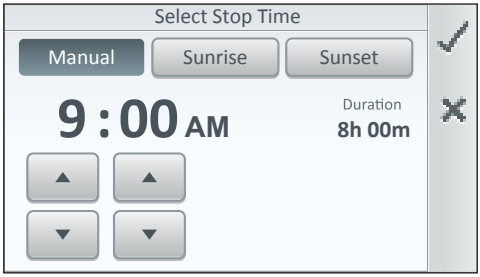
Heat Source Options: Don't Change (use for Schedules only), OFF, Heater, Solar Only, Solar Preferred, Heat Pump Only, Heat Pump Preferred or Hybrid.
To assign circuits **see Settings > Advanced System Configuration > Installation Setup > Circuits and Feature Circuits, see page 56.**

Start Time (Manual): Set the start time (am/pm) for the Weekly schedule.

Schedule - Weekly

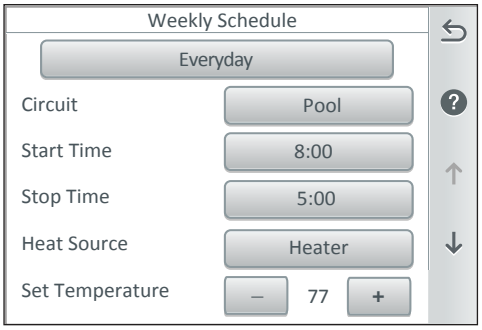


Duration: Start time duration: Time left after the start time is established (e.g. 1:00 AM to 9:00 AM). The system clock calculates the duration between the start and stop time which is 8 hours. 24 Hrs. duration is display when the Start/Stop time is set to 8 AM to 8 PM. **Note: To offset Sunrise/Sunset start time, see page 24.**



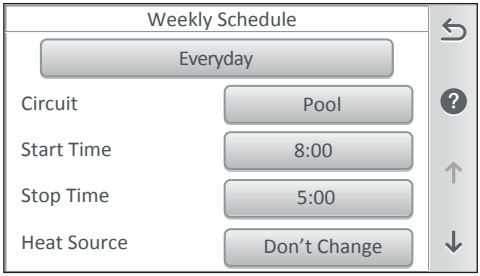
Stop Time (Manual): Set the stop time (am/pm) for the Weekly schedule.

Duration: Stop time duration: Time left after the start time is established (e.g. 1:00 AM to 9:00 AM). The system clock calculates the duration between the start and stop time which is 8 hours. 24 Hrs. duration is display when the Start/Stop time is set to 8 AM to 8 PM. **Note: To offset Sunrise/Sunset stop time, see page 24.**



Heat Source: Select: Don't Change (use for Schedules only), OFF, Heater, Solar Only, Solar Preferred, Heat Pump Only, Heat Pump Preferred or Hybrid. To create a heat source go to **Settings > Advanced System Configuration > Installation Setup > Heaters, page 72 for more information.**

Set Temperature: Tap the Plus or Minus (+/-) button to set the Heat Source set point temperature from (40°F to 104°F). Note: This feature does not display when using **Don't Change**.

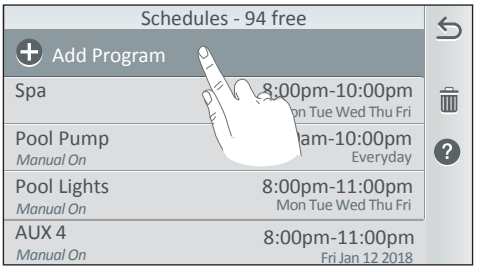


Don't Change Heat Source: Don't Change is only used when a schedule is running. The heater source selected from the Pool or Spa screen will be used every time the schedule is active.
See Pool screen on page 9.

Manual OP Priority (Default ON): If this feature is set to ON, a circuit can be manually switched OFF and switched ON within a scheduled program and will continue to run for a maximum of 12 hours or whatever that circuit Egg Timer is set to, after which the scheduled program will resume if the schedule has not ended before the Egg Timer has expired. **See Settings > General page 44 for more information.**

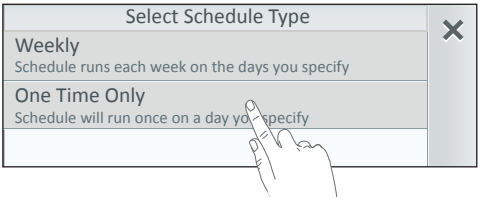
Schedule - One Time Only

One Time Only: This feature will automatically schedule a circuit or a group of circuits to switch on and off at a specific start and stop time and day, for one time only. The circuit or group of circuits must be turned off manually or wait for the 12 hour automatic shut-off. However, the 12 hour factory shut off time can be changed by setting a new run time in the Egg Timer. **See Egg Timer feature in the Circuits settings (Settings > Advanced System Configuration > Installation Setup > Circuits, see page 53).** For example, you could set up the program to pre-heat your spa ready for your arrival. After the scheduled One Time Only program is completed, it is automatically erased. If the heater and pump already are on a schedule and the equipment is off, the One Time Only timer will switch it on for the scheduled time that has been set.

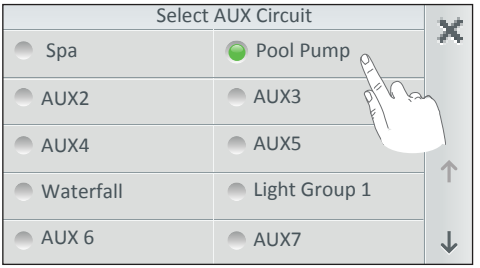


Add a Program: From Home screen tap **Schedule > Add Schedule > One Time Only** to add a new schedule.
Note: If the system is in Vacation Schedule mode, the Home screen Schedule icon will change to a Vacation text, **see page 25**.

Delete Program: Tap the Trash Can icon and select the schedules to delete from the list, then tap Check and the Yes button to delete.



One Time Only: Tap **One Time Only** to display the available AUX (auxiliary) circuit, Feature circuits and Groups (circuits and Feature circuits) as defined in the Circuits screen (see page **56).**

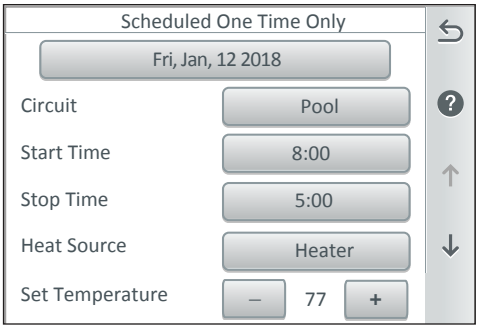


Circuits: Tap Circuit and select a circuit from the assigned circuits list.
Note: Heat Source and Set Temperature options only display for Pool an Spa circuits. Use these options to schedule your pool/spa heater to heat the water at a specified time.

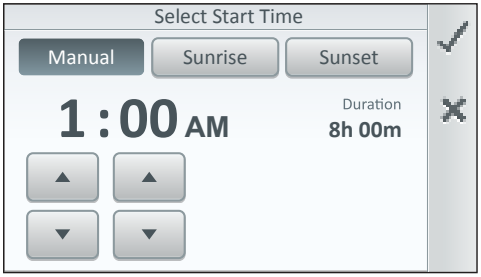
Note: To assign circuits see Settings > Advanced System configuration >Installation Setup > Circuits and Feature Circuits, see page 57.

Manual OP Priority (Default ON): If this feature is set to ON, a circuit can be manually switched OFF and switched ON within a scheduled program and will continue to run for a maximum of 12 hours or whatever that circuit Egg Timer is set to, after which the scheduled program will resume if the schedule has not ended before the Egg Timer has expired. **See Settings > General page 44 for more information.**

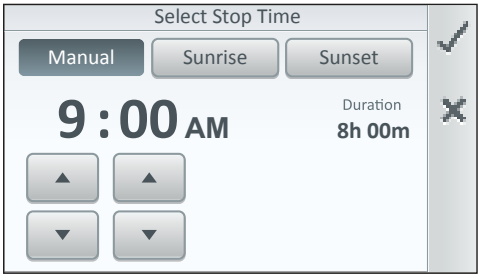
Schedule - One Time Only (Continued)



Start Time (Manual): Set the start time for the Weekly schedule.

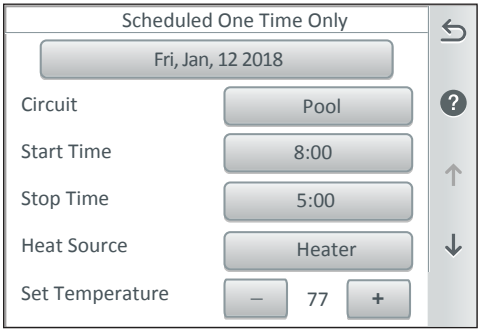


Start time duration: Time left after the start time is established (e.g. 1:00 AM to 9:00 AM). The system clock calculates the duration between the start and stop time which is 8 hours. 24 Hrs. duration is display when the Start/Stop time is set to 8 AM to 8 PM. Note: To offset Sunrise and Sunset start time.



Stop Time (Manual): Set the stop time (am/pm) for the Weekly schedule **see page 24.**

Stop Time Duration: Time left after the start time is established (e.g. 1:00 AM to 9:00 AM). The system clock calculates the duration between the start and stop time which is 8 hours. 24 Hrs. duration is display when the Start/Stop time is set to 8 AM to 8 PM. **Note: To offset Sunrise and Sunset start time, see page 24.**



Don't Change Heat Source: Only used when a schedule is running. The selected Heat Source will be used each time the schedule is active. See page 9.

Heat Source: Select: Don't Change (use for Schedules only), OFF, Heater, Solar Only, Solar Preferred, Heat Pump Only, Heat Pump Preferred or Hybrid. To create a heat source go to **Settings > Advanced System Configuration > Installation Setup > Heaters, See page 72 for more information.**

Set Temperature: Tap the plus or minus button to set the Heat Source set point temperature from 40°F to 104°F.

Schedule - Offset the Sunrise/Sunset Time

Sunrise & Sunset Start & Stop Time: The Sunrise and Sunset times are based on the system date and time established from the area and location (zip code and time zone setting) of the system, **see Setting > General > Location > Date & Time. See page 40 for details.**

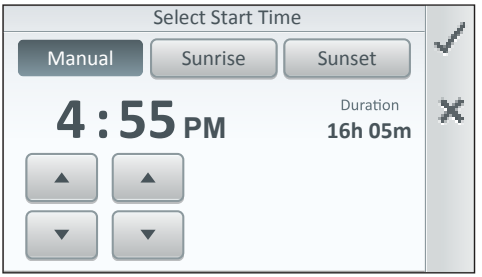
The onboard clock can be manually set or synchronize from the Internet clock. If you select to use the Internet clock your computer clock should connected to the your Internet domain to synchronize automatically with a network time server, then the IntelliCenter Control System clock will be in sync with your computer time. Be sure your computer has a continuous Internet connection to maintain automatic clock synchronization.

Sunrise Start Time (Hours/Minutes): The schedule start time set by the IntelliCenter Control System clock in sync with your computer Internet time. **Before/After Offset:** Select Before to adjust the Sunrise start or stop time for a schedule.

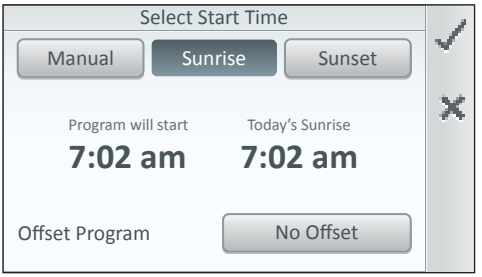
Sunrise Stop Time (Hours/Minutes): The schedule stop time set by the IntelliCenter Control System clock in sync with your computer Internet time. **Before/After Offset:** Before to adjust the Sunrise start or stop time for a schedule.

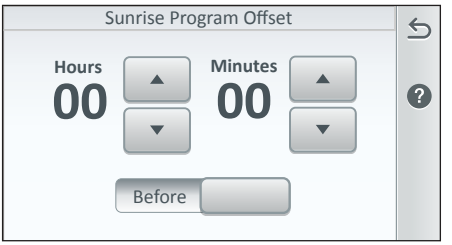
Using the Sunset Offset Setting

The following example describes how to offset the schedule Sunset time two hours before the actual sunset time. This allows you to schedule the heater/pump circuit to start heating the spa before sunset.

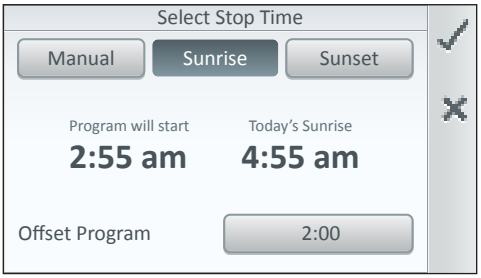


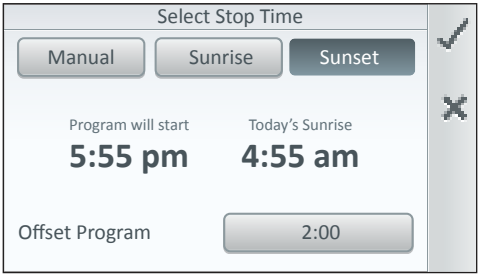
Start/Stop Time Screen: Set the start and stop time for the program.
Manual: Select Start time duration (AM/PM).
Sunrise/Sunset: The Sunrise and Sunset times are based on the system time established from the area and location (zip code and time zone setting) of the system. See page 40 for details.
Sunrise/Sunset Offset Program: The Sunrise and Sunset Offset time can be adjusted up to a maximum of 6 hours.





Schedule - Offset the Sunrise/Sunset Time

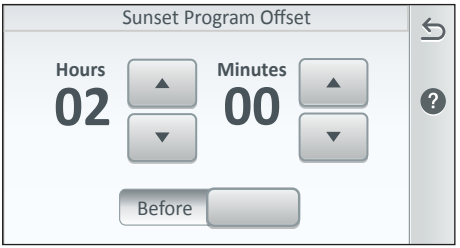




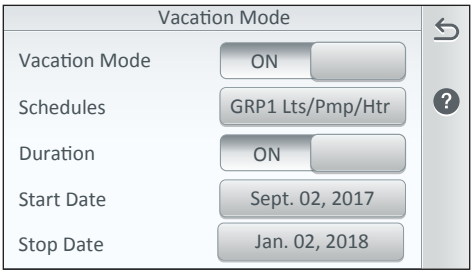
Start/Stop Time Screen: Set the start and stop time for the program. Manual: Select Start time duration (AM/PM).

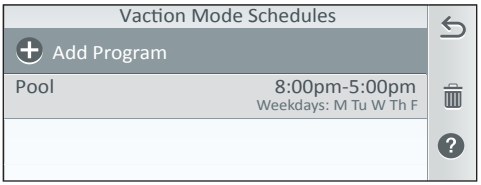
Sunrise: The Sunrise and Sunset times are based on the system time established from the area and location (zip code and time zone setting) of the system. **See page 40.**

Sunrise Offset Program: The Sunrise and Sunset Offset time can be adjusted up to a maximum of 6 hours.



Vacation Mode Schedules - One Time Only



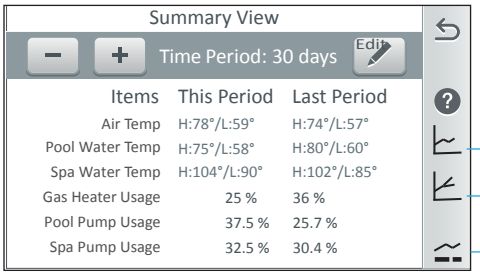


Vacation Schedules: When the system is in Vacation Mode, you can setup a Weekly or One Time Only schedule while on vacation the same way as you would for a non-vacation schedule.

Note: When in Vacation Mode, the Schedule icon is replaced with the Vacation icon which is displayed on the Home screen to indicate the system is in Vacation Mode.

Usage (Summary View)

To access the Usage screen, tap the Usage icon on the Home screen. The Historical Usage data is saved when using the IntelliCenter Control Panel or Wireless Remote.



Summary View

Graph Icon: Tap this icon to display a graph view of the Summary View items (1-6).

Graph Icon: Tap this icon to display a visual comparison of a preset list of items (Heater vs Pump Usage). See page 28.

Graph Icon: Tap this icon to display a graph view comparison of a preset list of items. See page 28.

Summary View

Usage Screen: Displays up to six months of system historical usage data. Tap the **Minus (-)** or **Plus (+)** button to select the desired Time Period to view the items.

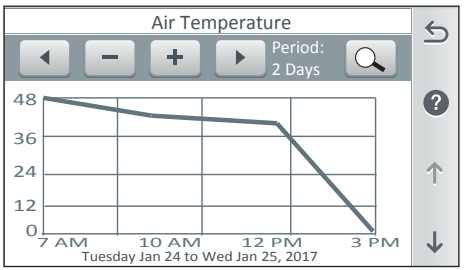
Usage items: You can select up to six items to display on the Summary View screen. **Up to 6 months of historical usage date can be stored on intellicenter2.com.**

Edit Pencil icon: Tap the Edit Pencil button to access the **Edit Summary View** screen (see next page). From the Edit Summary View screen you can arrange the usage items listing order (1-6) or select other system items to display.

Summary View: Minus and Plus Buttons: Tap the **Minus (-)** or **Plus (+)** button to select the desired Time Period to view the items.

This Period, Last Period: This Period displays the current system usage date compared to the Last Period date selected. The current time period is displayed on the bottom of the screen.

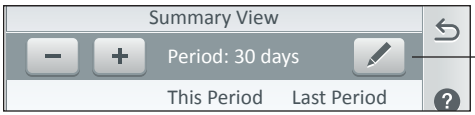
Graph View Icon (first graph icon right side of the screen)



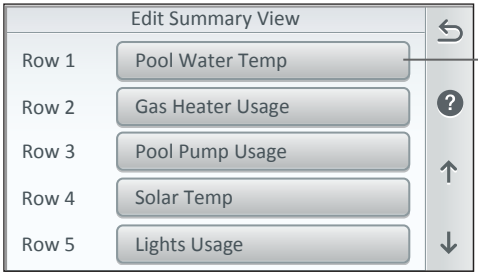
Tap the first Graph icon on the Summary View screen to access a graph view of the displayed Usage Items (1-6).

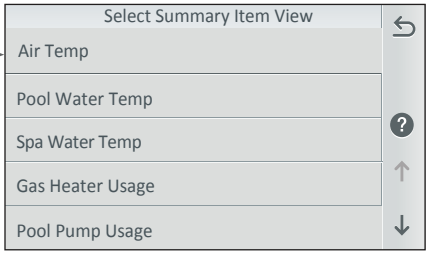
Note: See Settings > Advanced System Configuration > Import/Export to export status logs to a USB device, page 90.

Usage (Edit Summary View)



Tap **Edit** to select access the Summary View Edit screen.

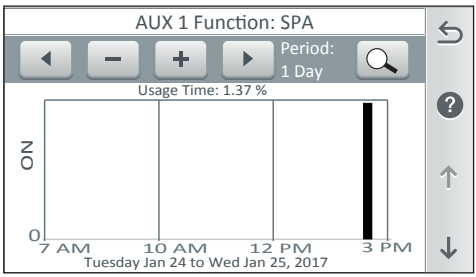




Change the Summary Usage List Order (1-6): To change the Summary Usage List order, tap on any Row number item name (1-6), then from the next screen select the new item to display on that Row (Edit Summary View). Tap Return to return to the previous screen to view the updated list order.
Note: See Settings > Advanced System Configuration > Import/Export to export status logs to a USB device, page 90.

Select Summary View Item: Displays the Usage Items: Air Temp, Pool Water Temp, Spa Water Temp, Solar Temp, Gas Heater, Heat Pump, UltraTemp, Pool Pump, Spa Pump, Dual Speed Pump, IntelliFlo (VS, VSF, VF), pH Data, ORP Data, pH Feed Time, ORP Feed Time). Tap on an item to corresponding to the select row (1 through 6). Tap Return to return to the previous screen.

Edit Summary View (AUX circuits usage)



This Graph view displays a detailed view of the historical usage data items. Tap the Graph icon to access the view graph usage screen. On the second screen, each usage is displayed on a graph. For more information.

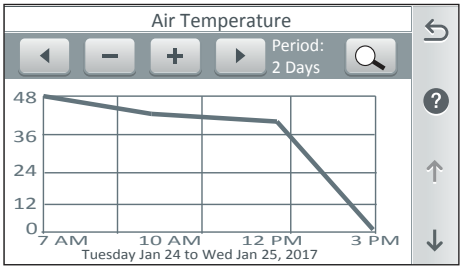
Usage History Summary View screen: (Tap the Graph Icon (lower right side of the screen):

- Minus or + Plus Button: Tap the to select the desired Time Period to view the items. The Time Period selection range is one day, two days, one week, one month, three months or six months.

Left and Right Buttons: Use these buttons to scroll through a selected item details.

Magnifying Glass Button: Tap the magnifying glass button the to display the highest usage data for the selected item. Tap the button again to display the lowest usage data.

Graph View Icon (second graph icon) Compare Preset Item List



Tap the first Graph icon on the Summary View screen to view the preset item comparison list. See list below. Tap the Down arrow to scroll through the graph items.

- Minus or + Plus Button: Tap to select the desired Time Period.

Left and Right Buttons: Use these buttons to scroll through a selected item details.

Magnifying Glass Button: Tap the magnifying glass button the to display the highest usage data for the selected item. Tap the button again to display the lowest usage data.

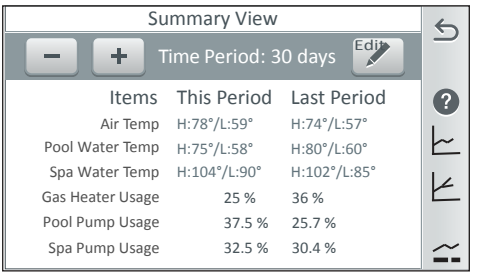
Usage Graph Comparison Items (Heater vs Pump)

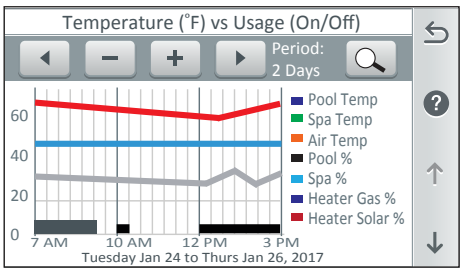
Pool vs Spa Water Temp
Air vs Pool Water Temp
Air vs Spa Water Temp
Air vs Solar Water Temp
Pool Water Temp. vs Gas Heater
Spa Water Temp. vs Gas Heater
pH vs ORP Feed time
pH vs ORP Feed time
pH vs ORP Data
pH vs ORP Feed time

Pool Water Temp vs Solar Heater
Spa Water Temp vs Solar Heater
Pool Water Temp vs Heat Pump
Spa Water Temp vs Heat Pump
Pool Water Temp vs UltraTemp Heater
Spa Water Temp vs UltraTemp Heater
Pool Water Temp vs Hybrid Heater
Spa Water Temp vs Hybrid Heater
pH vs ORP Data
pH vs ORP Feed Time
pH vs Feed Time / ORP vs Feed Time

Usage (Graph) Comparison Items

This Graph displays a detailed usage view of the preset items for a selected time period (up to six months). To access the compare graph, tap the lower Graph icon on the Summary View screen.





Magnifying Glass Button: Tap the magnifying glass button the to display the highest usage data for the selected item. Tap the button again to display the lowest usage data.

Up and Down Arrows: Use the Up or Down arrow to scroll through the preset usage items. The preset usage items are: Pool Water Temp, Spa Water Temp, Air Temp, Pool %, Spa %, Gas Heater %, Solar Heat %. After scrolling to the last item, continue to tap the Up/Down button to return to the Summary View. **Also, tap the Down arrow (right side of graph screen) to display system configured AUX circuits usage data.**

Chemistry (IntelliChlor - pH Measurement)

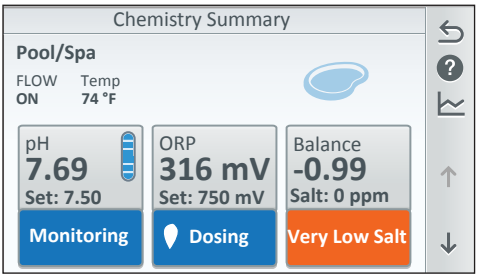
To view the Chemistry Summary screen tap the Chemistry icon on the Home screen. Tap the UP arrow on the screen to display the next page and view Pool and Spa chlorine outputs. If an IntelliChlor SCG is installed, tap the Up arrow on the screen to display the IntelliChlor SCG screen. To add an IntelliChem and/or IntelliChlor device to the system, **see Advanced System configuration > Installation Setup > Chemistry, on page 79.**

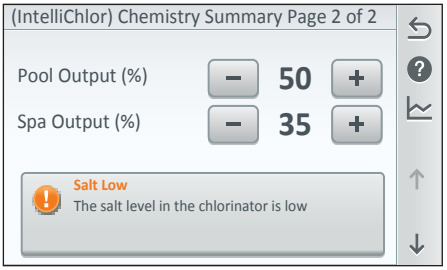
To display pH and ORP readings on home screen Chemistry Icon, see page 45.

pH Value

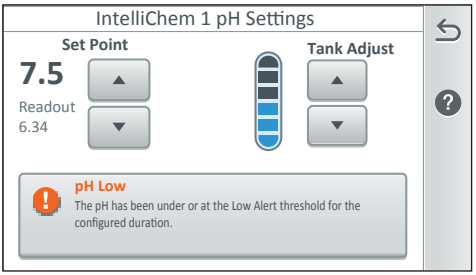
pH value is the measurement of the acidity (0 to 7) or alkalinity (7 to 14) of the pool water. The pH low and high alarm set point values are preset at the factory to 6.7 and 7.9. For a pool, the advised ideal pH is between 7.2 - 7.8 (a pool professional should regularly check the water for metal presence, cyanuric acid levels (less than 30 ppm ideal) and TDS (total dissolved solids). To maintain accurate pH pool water measurements, regular maintenance of the pH probe is advisable. pH probe calibration is necessary before the summer season.

IntelliChem Chemistry Controller Screen: Tap Up arrow to view Page 2 of 2.





Tap **pH** to select the pH setting screen.



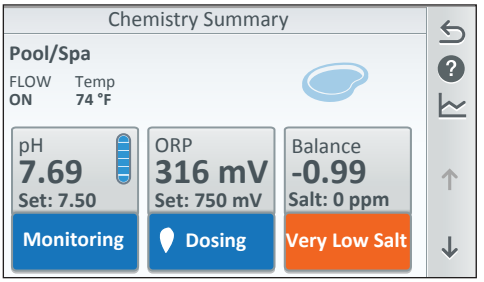
ph Reading/Set Point/Tank: Displays the current pH level reading. Tap the **Set Point Up/Down button** to adjust the pH set point value. The adjustable range is from 7.2 to 7.6 in increments of 0.1. The default pH set point value is 7.5.

Tank: Tap the tank segment (1-6) to match the amount of muriatic acid currently in the canister. The canister can hold a maximum of 3-1/2 gals. of muriatic acid.

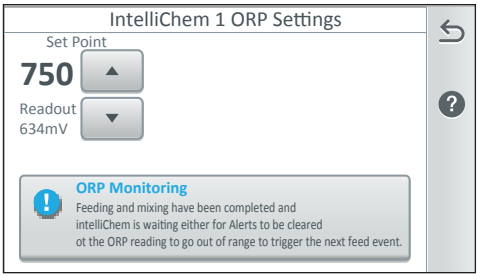
The Tank indicator (1-6 segment) is a visual representation of the amount of muriatic acid currently in the external canister. Tap the Up or Down button to match the amount of muriatic acid in the canister.

Chemistry (ORP Measurement)

Oxidation-Reduction Potential (ORP) is the concentration level of disinfectant (chlorine, bromine, active oxygen) present in the pool water. It is advised to keep this measurement between 400 mV and 800 mV. To maintain accurate ORP pool water levels, regular maintenance of the ORP probe is advisable. ORP probe calibration is necessary before the summer season.



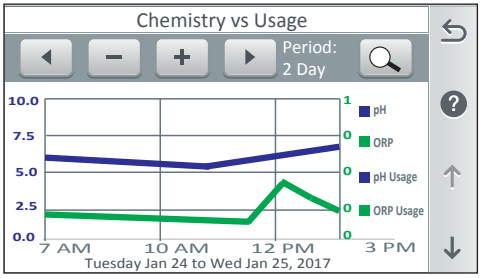
Tap **ORP** to select the ORP setting screen.



ORP Reading/Set Point: Displays the current ORP level reading. Tap the **Set Point Up/Down button** to adjust the ORP set point value. The adjustable range is from 400 to 800 in increments of 10. The default ORP set point value is 700.

IntelliChem ORP Control Chlorination: The IntelliChem Controller will constantly measure ORP and will increase or decrease chlorine production based on a preset setpoint that you have determined. The system will automatically monitor ORP and produce the correct amount of chlorine to maintain the preset level. If the ORP level is manually set, the amount of chlorine produced is based on this setting.

ORP Setpoint: The setpoint for the ORP level is measured in mV. 700mV is the default value. The lintelliChem Controller monitors the ORP and produces the proper amount of chlorine to maintain this setpoint.



Usage (Graph) pH & ORP Comparison: Tap the Graph icon on the right of the Chemistry Summary screen to display a detailed view of the pH and ORP usage for a selected time period (up to six months).
Note: Use the Up/Down arrow to scroll through the graph.

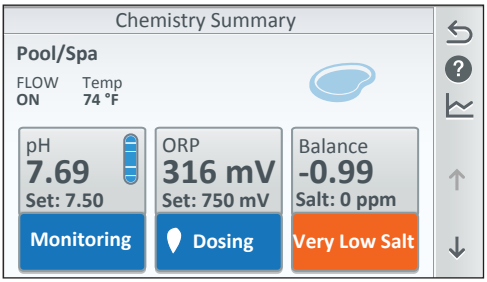
Chemistry (Water Balance)

To view the current water balance, tap Water Balance on the Chemistry Summary dialog box. The Water Balance Settings screen is displayed.

Water Balance Summary

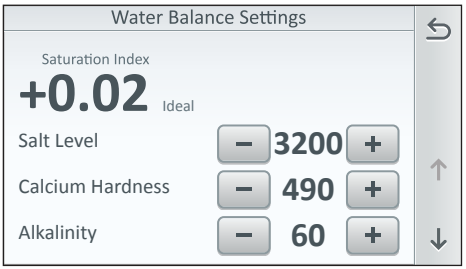
The Water Balance Setting screen displays the current water balance and salt levels. The Calcium Hardness, Alkalinity and Cyanuric Acid values can also be adjusted based on manual water tests to allow the water balance number to be calculated.

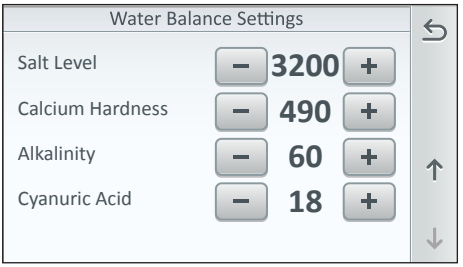
A Saturation Index value of 0 indicates the water is chemically in balance. If the Index is a minus (-) value, corrosive tendencies are indicated. If the Index is a plus (+) value, scale-forming tendencies are indicated. A Saturation Index value between +0.5 to -0.5 is considered satisfactory in a swimming pool.



Tap **Water Balance** to select the pH setting screen.

Water Balance Settings: Tap **- / + button** to adjust settings.





Recommended Pool Chemistry:

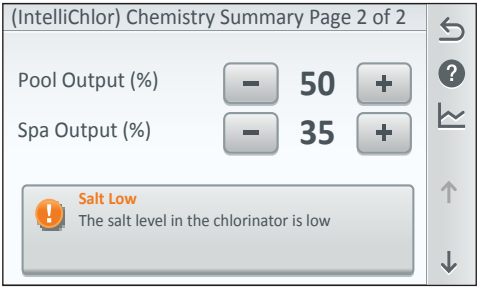
pH: 7.2 - 7.8
Combined Chlorine (Chloramines): None
Chlorine: 1.0 - 4.0 ppm
Cyanuric Acid: Less than 50 ppm
Total Alkalinity: 80 - 120 ppm
Calcium Hardness: 200 - 400 ppm
Salt: 2600 - 4500 ppm (ideal 3600 ppm)
Metals: None
Nitrates: None
Phosphates: Less than 125 ppb
Total Dissolved Solids: 3000 - 6000 ppm

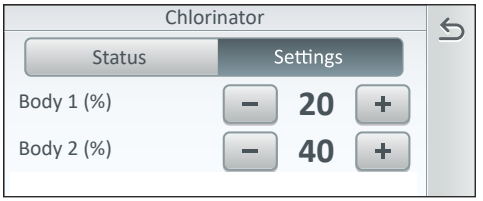
Chemistry (IntelliChlor® Salt Chlorine Generator)

IntelliCenter can support one Chlorinator in Shared Equipment mode and two Chlorinators (one per body) in Dual Equipment mode.

To view the (IntelliChlor) Chemistry Summary screen tap the Chemistry icon on the Home screen. Tap the Up arrow on the screen to display the next page to view the Pool Output and Spa Output chlorine percentage values for the IntelliChlor SCG.

To install an IntelliChlor SCG, see page 79.





Tap **Settings** to display the Chlorinator Settings. Select the Body of water using an IntelliChlor SCG.

Pool Output: Displays the pool chlorination output level from 0 to 100%. Tap the left or right arrow to increase or decrease the pool chlorination output level.

Spa Output: Displays the spa chlorination output level from 0 to 100%. Tap the left or right arrow to increase or decrease the spa chlorination output level.

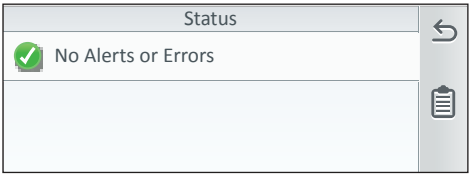
Salt Level: Displays how much salt parts per million is in the water. The color (Green, Orange or Red) of the status bar indicates the condition of the water. Corresponding information is displayed under the status bar.

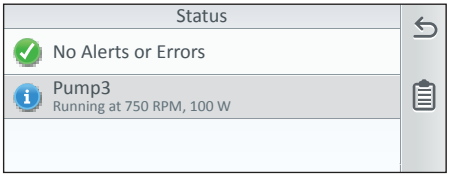
Status

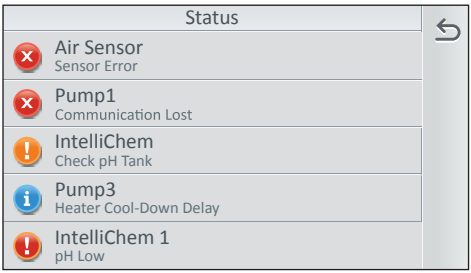
The Status screen displays the current system status, warnings and alerts. The Status feature is **OFF** by default. If set to ON, system warnings and alerts will be reported and logged and indicated by a Red number badge displayed on the Status icon located on the Home screen. ***General*** status conditions will not be reported or logged. The system water and air sensors are constantly monitored for errors. If a sensor error is detected, the displayed error is listed as shown below. To view the Status screen, tap the Status on the Home screen. **See Settings > Alerts and Notification for Alerts show in Status (on Home Screen), page 45.**

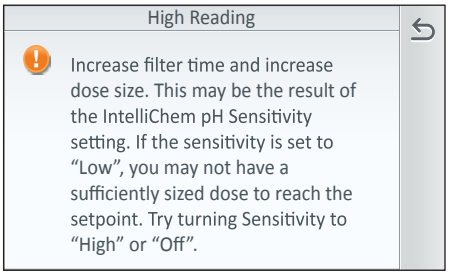
The Status screen displays the current status delays and alerts for the system. If a system error occurs, a Red number badge is displayed on the Status icon located on the Home screen. You can cancel delays that were configured for the pool cleaner or pump.

Note: See Settings > Advanced System Configuration > Import/Export to export status logs to a USB device. See page 90.

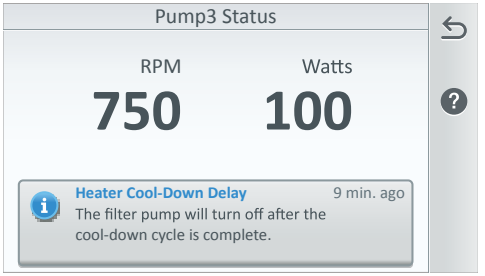


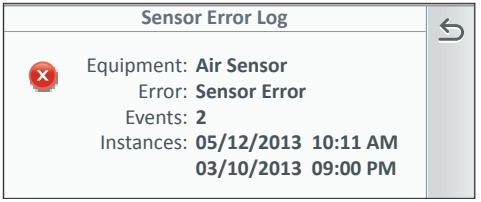






Status





Selecting which Error conditions to display

From this screen you can select which circuits to report equipment status, warning and alert message. The Red number badge on the Home screen indicates how many error conditions have occurred.

Warning and Alerts Indicators

Red: Indicates a warning condition such as a low voltage conditions, system power loss etc. Warning messages are automatically logged for viewing.

Orange: Indicates a system caution alert, such as a chemical feeding error or pump communication lost. Alert messages are automatically logged for viewing.

Blue: Indicates a system status condition, such as a heater cooldown delay. Status messages are not automatically logged unless selected from the Status Selection screen.

Connecting Multiple Heaters: MasterTemp & Max-E-Therm (Status Screen, see page 33)

All MasterTemp and Max-E-Therm notifications are displayed in the Status screen. (Press the Status button on the Main screen - see page 8). See below for the complete list of notifications.

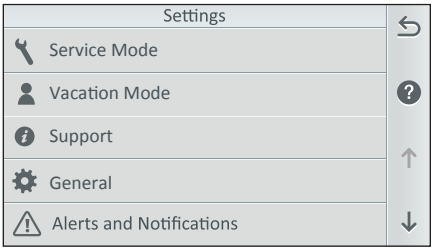
Status Notifications for connected heaters (MasterTemp and Max-E-Therm)

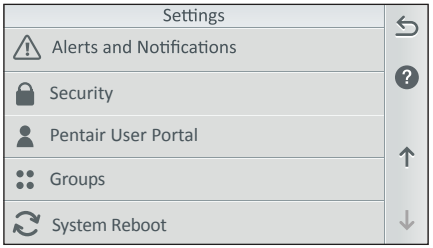
Water Pressure Switch
High Limit Switch
Air Flow Switch
Auto Gas Shutoff Switch
Ignition Control Error
Stack Flue Sensor Error Alarm
Stack Flue Sensor Open Alarm
Stack Flue Sensor Short Alarm
Water Sensor Open Alarm
Water Sensor Short Alarm
Air Flow Fault Alarm
Flame No Call For Heat Alarm
Ignition Lockout Alarm
Weak Flame Alarm
Communication Lost

Select Alerts & Warnings shown in Status screen (See page 45) for Connected Heaters: MasterTemp and Max-E-Therm (1-13): Select 13 status conditions: Water Pressure, Stack Flu Sensor alarm, High Water Temp., Lost Communication and more.
Hybrid Heater (22/22): Select 22 status conditions: Air flow switch, temperature status, condensate filter, freeze and more.

Settings

Access the Settings options to configure and setup the IntelliCenter. See *Settings > Advanced System Configuration > Installation Setup, see page 52.*





Service Mode: Auto, Service, Timer. For maintenance or service purposes. See page 37.

Vacation Mode: Setup vacation schedule (weekly or one time only), and duration (start and stop date). See page 38.

Support: Pool service, support contact information is saved here. Add contact phone number, E-mail, URL information. See page 39.

General: Touchscreen, Location, Date and Time, Units, Features and Lights List Order, Backlight, Temperature Sensor Calibration, Day / Night Themes, Manual Operation Priority, Chemistry Readings Badge. See page 40.

Alerts and Notifications: Setup alerts/warnings and pool/spa equipment status information to display (Green Badge) and specific status information in the Home screen Status screen. See page 45.

Security: Enable passcode protection for the IntelliCenter. Setup system Admin and Guest passcode. See page 45.

Pentair User Portal: Login or Create New Account (enter contacts e-mail address, property name, password). The system will attempt to connect to the account e-mail address (via the Internet). See page 47.

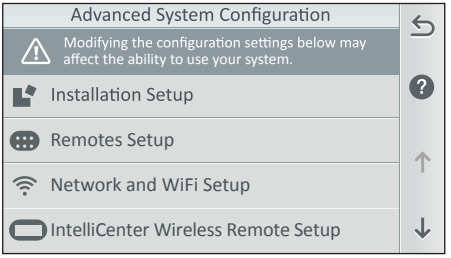
Groups: Add LIGHTS and CIRCUITS Groups of circuits for one touch button On/OFF control. Group circuits are displayed in Features, Lights screens on the Home screen. See page 48.

System Reboot: Tap System Reboot to restart the system (Outdoor, Indoor Control Panel and Wireless Remote). To cancel system reboot, tap Cancel before four seconds. See page 51.

Advanced System Configuration Options: Go to Settings > Advanced System Configuration, see page 52.

Settings

Advanced System Configuration Options: To access the Advanced System Configuration options, **go to Settings > Advanced System Configuration, page 52.**



Installation Setup: Configure the IntelliCenter system. Body Configuration (page 53). Circuits (page 56), Pumps (page 62), Heaters (see page 72), Valves (page 77), Chemistry (page 79).

Remotes Setup: Add Spa-Side Remote: Select Spa Command, iS4, iS10, or QuickTouch Spa-Side Remote. See page 81.

Network and Wireless Setup: Configure Ethernet, Connect to a Wireless Network, Internet Connection Test, and Reboot Wireless Device. See page 85.

IntelliCenter Wireless Remote Setup: Set up the wireless remote. See page 87.

Delay Settings: Valve Delay ON/OFF, Heater Cool Down ON/OFF, Freeze Cycle Time, Spa Freeze Override and Override Delays. See page 88.

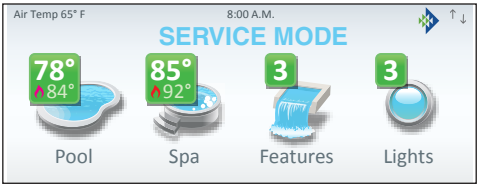
System: System Information, Detected Hardware, Firmware update. See page 89.

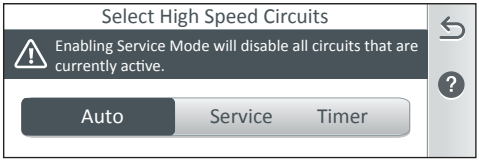
Import / Export: Import System Configuration, Export System Configuration, Export Status Logs. See page 90.

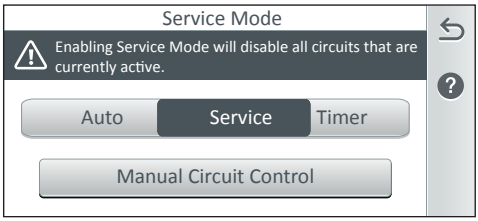
Restore Factory Defaults: Overwrite the current system configuration with the default factory settings. Follow the screen prompts. See page 92.

Setup Wizard: Configure the system using the step-by-step setup wizard assistant. See page 95.

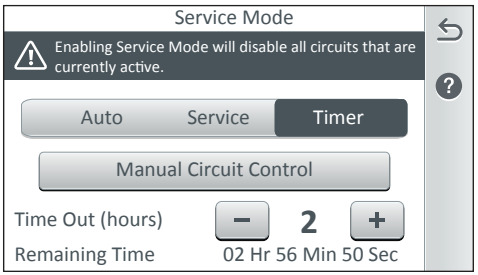
Service Mode











Tap Manual Circuit Control and choose the circuits to enable. ***Note: Circuits selected in the Service Manual Circuit Control screen are retained in the Timer Manual Circuit Control screen.***

Service Mode: Service and Timer mode is used for pool/spa maintenance or service purposes to manually control and test system equipment. During Service mode, the Outdoor Panel, Indoor Control Panel and Wireless Remote Home screen will display SERVICE MODE. All system auxiliary circuits will be disabled once Service or Timer is selected. When AUTO is selected, normal operation will resume and the system will not be in service mode.

Note: If the panel is passcode protected, enter the four digit assigned passcode, see page 45 for details.

Auto: When Auto is selected it indicates that the system is operating normally and not in Service or Timer mode.

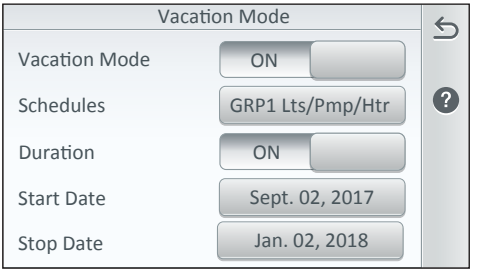
Service: When Service is selected, all system auxiliary circuits will turn OFF. To enable auxiliary circuits select Manual Circuit Control and choose the system auxiliary circuits to turn on/off.

Manual Circuit Control: Choose the auxiliary circuits to allow manual control for shared equipment or dual equipment). Tap the circuit name to turn the circuit on/off. **Note: For shared equipment, only one valve can be activated at a time.**

Timer: Use the Timer mode to leave the system in service mode up to 24 hours and automatically return to Auto mode (normal system operation) after the maximum hours set has elapsed. Set the count-down timer from 1 to 24 hours for selected circuits to remain in service mode.

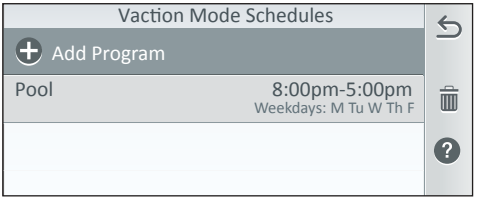
Vacation Mode

If you are planning a vacation and want to create a pump/filter daily schedule while on vacation, you can setup a start and stop date to run a daily pool/spa filter schedule. When you return from vacation the system will continue with the previous standard schedule.

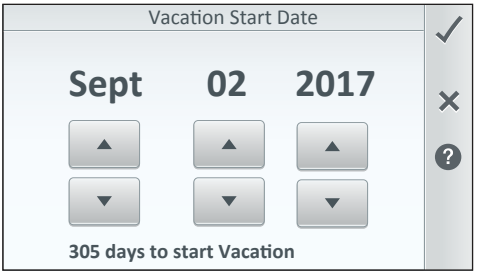


Vacation Mode: ON: Turn on Vacation Mode (manually enabled, no end date and time). **OFF:** Turn off Vacation Mode. Note: Previous vacation schedules will remain in memory and can be enabled again for future use.

Schedules: Set up a Weekly or One Time Only schedule for the duration of the vacation time. See Schedules on page 20. Note: To indicate the system is in Vacation Mode, the Schedule icon displayed on the Home screen is temporally replaced with the Vacation icon. Tap Vacation to see the current vacation schedules. **See Home Screen on page 8.**



Duration: ON: Set Start & Stop date for duration of schedule(s). **OFF:** Duration for vacation schedules is disabled (no Start & Stop date has been established).



Vacation Start Date: Set the vacation start month, day and year. The number days before the vacation start date are shown on the screen.



Vacation Stop Date: Set the vacation end month, day and year. The number days before the vacation stop date are shown on the screen.