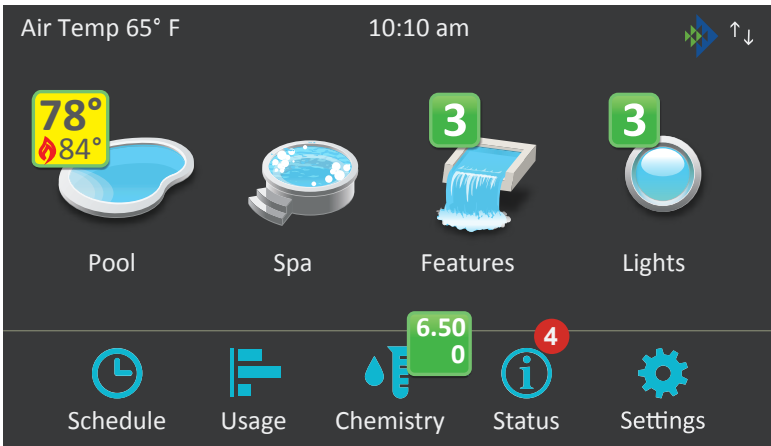




# INTELLICENTER® CONTROL SYSTEM FOR POOL AND SPA



## USER'S GUIDE

IMPORTANT SAFETY INSTRUCTIONS  
READ AND FOLLOW ALL INSTRUCTIONS  
SAVE THESE INSTRUCTIONS



## CUSTOMER SERVICE / TECHNICAL SUPPORT

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# IMPORTANT WARNING AND SAFETY INSTRUCTIONS



## IMPORTANT NOTICE

**Attention Installer:** This Installation and User's Guide ("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.



**ATTENTION** Before installing this product, 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](http://www.pentair.com) for more information related to this products.



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



**INSTALLERS, POOL OPERATORS AND POOL OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THE POOL AND/OR SPA LED LIGHT.**



**RISK OF ELECTRICAL SHOCK OR ELECTROCUTION:**



**THIS PRODUCT REQUIRES HIGH VOLTAGE WHICH CAN SHOCK, BURN, OR CAUSE DEATH.**



**ATTENTION** Before working on the IntelliCenter Control System always disconnect power to the pool and/or spa pumps, lights and other electrical devices at the house circuit breaker. Failure to do so could result in death or serious injury to service person, pool users or others due to electric shock.



This underwater light 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.

Always disconnect the power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to serviceman, pool users or others due to electrical shock.



**ATTENTION** 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 - Underwriter Laboratory

# IMPORTANT WARNING AND SAFETY INSTRUCTIONS

## Regulatory Compliance Information

### 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 WARNING AND 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.  
Cet appareil doit être utilisé à l'intérieur.

### 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 symbol indicates that your product must be disposed of properly according to local laws and regulations. When your product reaches its end of life, contact Pentair Technical Support 1.800.371.7333 or your local authorities to learn about recycling options.

**California:** The coin cell battery in your remote contains perchlorates. Special handling and disposal may apply.

Refer to [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate).



The symbol above means that according to local laws and regulations your 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.

**READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL  
SAVE THESE INSTRUCTIONS**

## **CUSTOMER SERVICE / TECHNICAL SUPPORT**

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Fax: (919) 566-8920

Moorpark, California (8 AM to 5 PM)

Phone: (805) 553-5000

Fax: (805) 553-5515



# IntelliCenter® Control System

## Overview

Welcome! Your Pentair IntelliCenter® Control System will change the way you view pool and spa controls. This innovation in pool and spa automation offers complete freedom for you while having full automation control over your pool, spa, lights, heater, cleaners and much more. You can now schedule multiple start and stop times to control your lights, heater, spa jets, and filter pumps. The historical usage data feature provides a convenient way to help you conserve energy. Using an iPhone®, iPad® mobile digital device or an Android® wireless device, you can now control your pool and spa from anywhere inside or outside your home. The IntelliCenter Control System is a scalable system that can be used with popular home automation systems.

This manual describes how use the IntelliCenter Control System and associated equipment.

### Features

- 4" x 3" capacitive touch sensitive color touch screen.
- Day Time and Night Time color screen modes
- Multifunction Schedules/Programs
- Adjustable schedule timer for easy system scheduling
- 100 Schedules/Programs
- 32 Feature Circuits: Allow additional speeds on a variable speed pump or an actuator to be assigned without using an existing auxiliary circuit.
- 16 Groups: Assign groups of lighting and AUX circuits that can be controlled by a single button.
- Supports up to 16 IntelliFlo® VF, VS, and VSF Pumps
- Supports up to four Spa Command® and iS10 Spa Side Remotes, and two iS4 and one QuickTouch® II Wireless Spa Side Remotes
- Supports two Indoor Control Panels
- Supports IntelliBrite® LED Color lights
- Valves: Intake/Return plus A and B valve circuits. Expandable up to 10 valves
- Wireless Hand-Held Remote, Outdoor Control Panel
- IntelliChem® Controller (supports up to four units)
- IntelliChlor® Salt Chlorine Generator: Supports one unit
- 40 Auxiliary Circuits (up to three Expansion Enclosures)
- Spa Manual Heat Function
- Support for two Bodies of Water
- Supports multiple heater connections (RS-485) for MasterTemp, Max-E-Therm heaters (starting from software release v1.047)
- Over-The-Air Software Updates (starting from software release v1.047)

## Features (Continued)

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- Spa Side Control Enable/Disable
- Solar Heating Option/Support
- 16 Heat Pump Support: RS-485 Support, Heat Pump Cooling Support.
- Safety and Functional Delay(s) and Cancel Systems Delays
- Real Time Clock
- Assignable Circuit Names and Custom Circuit Names
- Special Circuit Functions
- Two Speed Pump Support
- English/Metric Support
- Sensor Calibration
- Passcode Protection
- USB port for use with a standard flash drive. Save the system's configuration and upgrade the system's firmware.

## Navigation

---



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



Move to next vertical screen (up/down).



Select an item. 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

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)

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

**1 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:** *Note: Shared equipment one badge for each body.*



**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 Pool and Spa (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.

Delay Settings	
Valve Delay	<input type="checkbox"/> OFF
Heater Cool Down	<input type="checkbox"/> OFF
Frz Cycle Time (min)	- 15 +
Spa Frz Override (min)	- 30 +
Override Delays	Cancel



### Badge Color Changing Sequence:

The color badges shown on left indicate No heater (Off) installed.

**Yellow changes to Green:** A schedule has started running.

**Yellow changes to Blue:** Pool/Spa pump has been manually turned ON. Blue will stay on until pool/spa pump is manually turned off. **Note:** Blue Badge will stay on for the Egg Timer duration (12 hrs. default). If the Egg Timer is set to **Don't Stop** the circuit will run continuously until manually switched off.

## Home Screen Connection Indicators

Connection indicators for IntelliCenter® Outdoor and Indoor Control Panel and Wireless Remote are displayed on the top right side of the Home screen.



**Padlock:** Indicates the Home screen is passcode protected.



**Pentair logo:** Indicates connection to [intelllicenter.com](http://intelllicenter.com) server, see page 85.



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



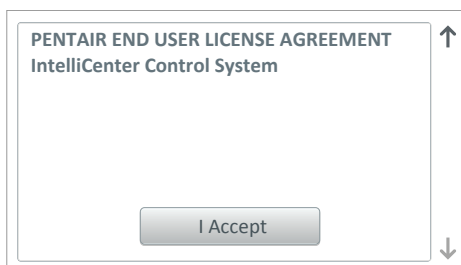
**Green/Yellow/Red Dot:** These connection icons display on the Expansion Panel(s), Indoor Control Panel and Wireless Remotes. Green indicates synchronizing with the main Outdoor Control Panel. Red indicates no connection with the Outdoor Control Panel.



**Ethernet Icon:** ↑ ↓ indicates an active Ethernet connection to Outdoor Control Panel. ↑//↓ indicates no Ethernet connection.

### Initial System Power Up

After all required pool/spa equipment has been connected to the IntelliCenter® Control System, apply power to the system at the main panel circuit breaker. Upon the initial system power up, the Outdoor LCD Control Panel will display the PENTAIR END USER LICENSE AGREEMENT. Please read this agreement. To continue, tap the Down arrow on the right side of the screen to



scroll down to the end of the agreement and tap **I Accept** to accept the agreement. The Home screen is then displayed. See page 95 for Setup Wizard.

**Setup Wizard and Wireless Remote:** Before running the Setup Wizard on the Wireless Remote, the Wireless Transceiver antenna must be connected to the IntelliCenter Control System Load Center. For more information, see the IntelliCenter Installation Guide. For Wireless Remote settings, see page 87.

**Setup Wizard and Wireless Network Bridge ([www.intelllicenter.com](http://www.intelllicenter.com)):** In order to connect the IntelliCenter Control System to your home network, the Wireless Network Bridge Antenna must be connected to the IntelliCenter Load Center and your home network. For more information, see the IntelliCenter Installation Guide. For Wireless Network Settings, see page 85.

## Home Screen Display Icons and Day/Night Theme

For optimal screen 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). See page 44.

**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® Control System model i5PS (pool/spa shared equipment with heater, see page 72). 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, see page 35.

### Configuring Heaters (Heater, MasterTemp, and Max-E-Therm) “Gas” Heater

One (1) 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 define 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.**

#### Home Screen

			
<p><b>Pool</b> Tap the Pool to access the Pool screen: Turn On/Off pool filter pump and heater. Set pool water temperature. Override the Pool pump while freeze protection is active.</p>	<p><b>Spa</b> Tap Spa to access the Spa screen: Turn On/Off Spa pump and heater. Set Spa water temperature. Override the Spa pump while freeze protection is active.</p>	<p><b>Features</b> Tap the Features icon to access the Features screen: Turn On/Off Individual or Groups circuits (Light and AUX circuits ).</p>	<p><b>Lights</b> Turn Individual/ Groups of lights ON/OFF. Color Lights: - All ON/OFF - Color Set/Edit - Color Sync - Color Swim/Edit. IntelliBrite® Lights: - Preset shows - Color presets MagicStream® Laminars</p>

## Pool/Spa System Configurations

### Systems with multiple pools and/or spas (up to two bodies of water total).

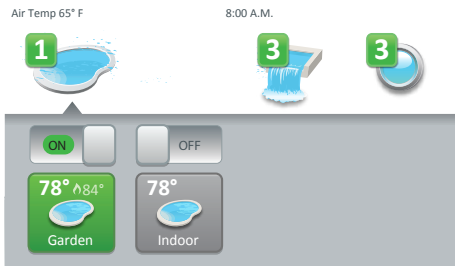
Depending on the Personality Card installed in the IntelliCenter® Control System load center (see page 96) a system can be configured as follows:

**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.



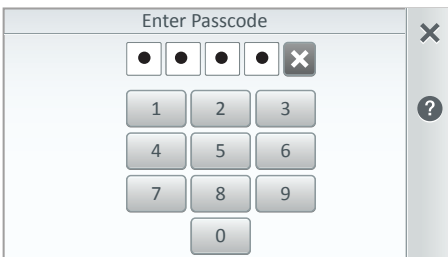
**Lower Drawers:** An i10D model system can be configured as Pool, Pool or Spa, Spa. Using the lower draws on/off button, each body of water can be turned on or off. *Note: The Home screen shown on the left are passcode protected, see Passcode Protect below for more information.*

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

**Passcode Protect:** When a screen or individual screen item is Passcode protected a *lock icon* is displayed. To access the passcode protected screen or item, tap on the screen icon to display the Passcode four digit screen. Enter the four digit Passcode. After passcode is entered, the screen can be accessed.



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.

## IntelliCenter® Control System Menu

---

### Home Screen (see page 8)

- Pool Screen
- Spa Screen
- Features (Individual/Groups)
- Lights (Individual/Groups)
- Schedule (Weekly, One Time Only Schedule)
- Usage
- Chemistry (IntelliChem® Controller/IntelliChlor® SCG)
- Status

### Settings (see page 35)

- Service Mode
- Vacation Mode
- Support
- General:** Location, Date & Time, Units (Fahrenheit/Celsius), Features and Lights List Order, General List Order, Backlight (Deep Sleep): Wireless Control Panel only, Temperature Sensor Calibration, Day / Night Themes, Manual Operation Priority, Manual Heat, Chemistry Readings Badge, Badge Colors.
- Alerts and Notifications (\*):** Choose which system status, errors, alerts and warnings badges to display on the Home screen Status icon.
- Security (Passcode Protect)
- Pentair User Portal (intellicer.com)
- Groups:** Configure groups of AUX circuits, Light circuits and Feature circuits.
- System Reboot: Reboot the panel

### Advanced System Configuration (see page 52)

#### Installation Setup:

Body Configuration, Circuits, Pumps, Heaters, Valves, Chemistry, Pool/Spa Cover.

**Remotes Setup:** iS4, QuickTouch II, iS10, SpaCommand remotes

**Network and WiFi Setup:** (Not required for Wireless 900MHz High Power Wireless Link Kit (P/N 523434). Please refer to the provided installation instructions (P/N 523445) when installing the 900 MHz Wireless antenna.

Configure Ethernet, Connect to a Wireless Network, Adjust Wireless Transmit Power, Internet Connection Test, Reboot Wireless Device.

**IntelliCenter Wireless Remote Setup:** Configure the Address and Panel # for wireless remote.

**Delays:** Valve Delay, Heater Cool Down, Freeze Cycle Time (min), Spa Freeze Override (min), Override Delays.

**System:** System Information, Detected Hardware, System Diagnostic Information, Firmware Update (Update from Panel, Update from USB, Update from Ethernet), Factory Diagnostics.

**Import/Export:** Import System Configuration, Export System Configuration.

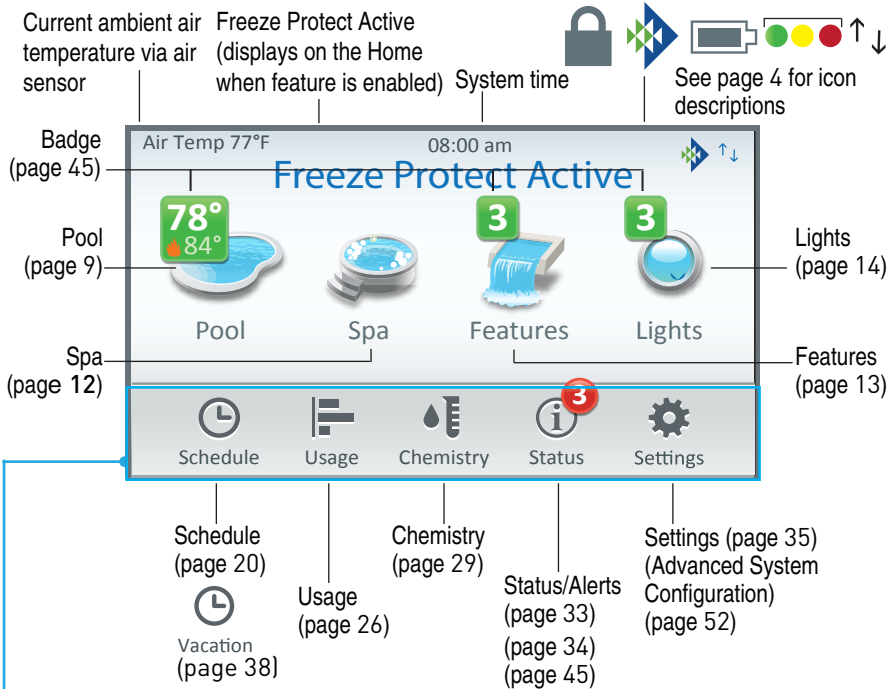
**Restore Factory Defaults:** Restore system to factory configuration.

**Setup Wizard:** Step-by-step system configuration.

**Note: (\*)** Please refer to the IntelliCenter Control System Installation Guide (P/N

## Home Screen

The IntelliCenter® Control System Outdoor 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 (IntelliCenter.com connection), Ethernet connection and the optional Wireless Remote signal and battery strength may also be displayed. The Home screen example below shows an i5PS IntelliCenter Control System (shared equipment pool and spa with heater). For IntelliCenter Control System models see page 111. The Home screen is displayed when power is applied to the IntelliCenter Control Panel load center.



### Schedule:

Setup your daily pool/spa operations. "Vacation" is displayed when the system is in Vacation mode.

### Usage:

Historical usage data: Keep track of pool/spa equipment usage data.

### Chemistry:

Sanitizers: IntelliChem® Controller, IntelliChlor® and iChlor™ Salt Chlorine Generator. To display pH and ORP readings on Home screen Chemistry Icon, see Settings > General > Chemistry Readings Badge (Set to ON). See page 45. The IntelliChem Controller can be configured to be stand-alone or to control an IntelliChlor/iChlor SCG.

### 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.

Air Temp 65° F



**Pool Badge Icons:** A Flame icon (heat source active) is displayed with the current heat set point temperature. A Snow Flake icon indicates the UltraTemp 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:** Heat Source Active  
**Snow Flake:** Nocturnal Cool Down  
**Sun:** 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.

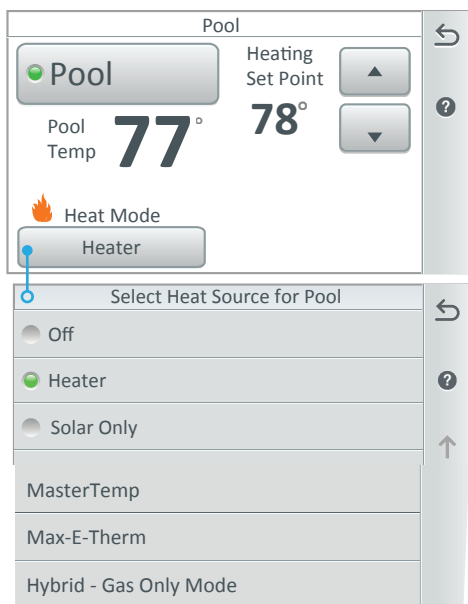
**Note:** Change the Pool or Spa button name, see page 55.

**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, see page 41.

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

Note: The displayed heat sources are configured from Settings > Advanced System Configuration > Installation Setup > Circuits, see page 56.

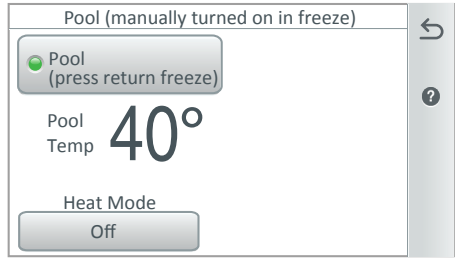
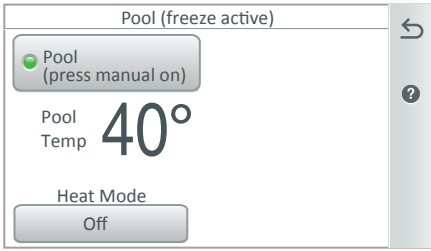


**Heat Mode: Heat Pump Only:** Uses only the Heat Pump side during calls for heating. **Hybrid - Gas Only Mode:** Use only the Gas Heater side during calls for heating. **Hybrid - Hybrid Mode:** Uses Gas and/or Heat Pump (automatically switches) depending on conditions during calls for heating. **Hybrid - Dual Mode:** Heat Pump and Gas Heater will run in tandem during calls for heating. Provides fastest possible heat ups. **Note:** To add a heater, see page 72.

## Pool

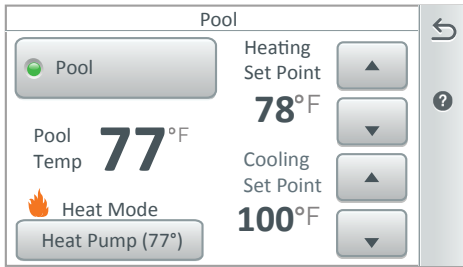


### Pool Pump Button (Override Freeze Protect)



**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.



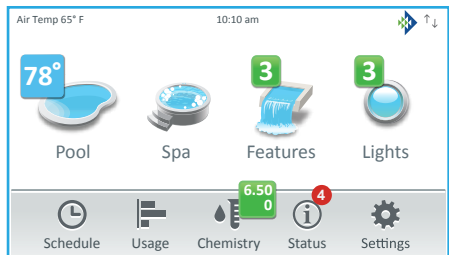
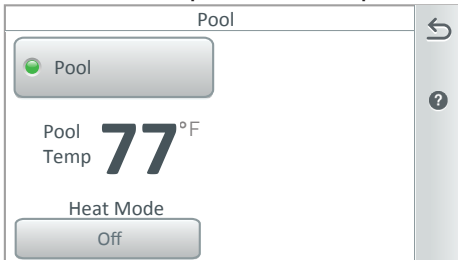
### Nocturnal Cooling Set Point Temperature control for Heat Pump or Solar:

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. See page 74.

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

**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. **Note: This feature is also used for the UltraTemp heat pump, Hybrid Heater and a Heat Pump. See page 74.**

**Note: 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. Note: The Home screen displays a Blue badge over the Pool icon with the current pool water temperature.**



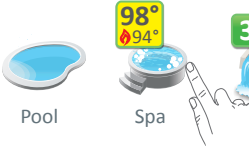
# Spa



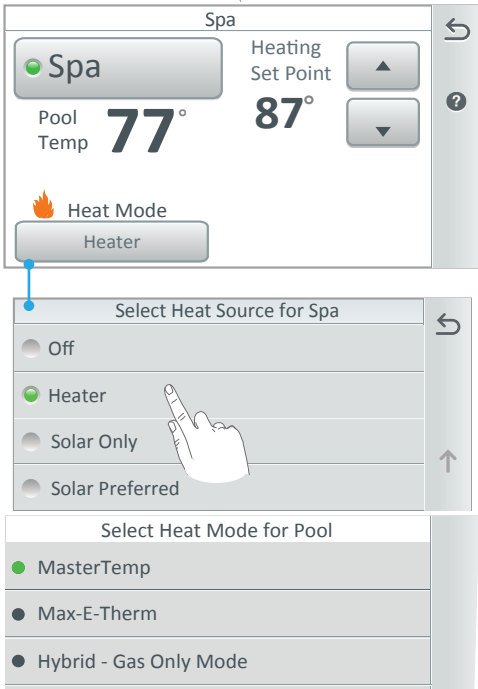
Tap the Home screen Spa icon to display the Spa Pump control settings screen. From this screen tap the Spa Pump button to activate the Spa heat source. A Blue badge displayed on the Spa icon indicates the Pool/Spa pump button has been manually turned on. The Blue badge displays until the pump button 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.

Air Temp 58° F

10:10 am



**Spa Badge Icons:** A Flame icon indicates that the heat source has been called for. A Snow Flake icon indicates the UltraTemp (Hybrid) 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:** Heat Source Active  
**Snow Flake:** Nocturnal Cool Down  
**Sun:** 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)**.

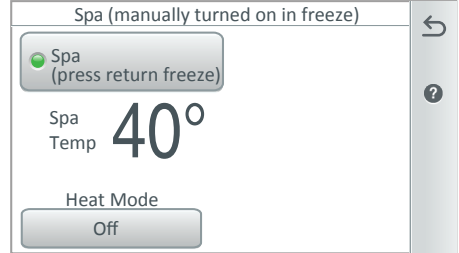
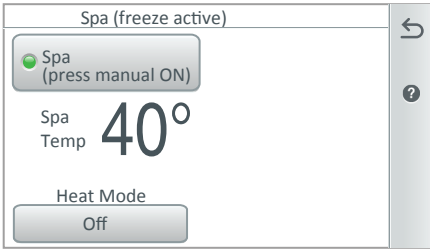
Note: To add a heater, see page 72. To add a circuit go to Settings > Advanced System Configuration > Installation Setup > Circuits, see page 56.

**Heat Mode: Heat Pump Only:** Uses only the Heat Pump side during calls for heating. **Hybrid - Gas Only Mode:** Use only the Gas Heater side during calls for heating. **Hybrid - Hybrid Mode:** Uses Gas and/or Heat Pump (automatically switches) depending on conditions during calls for heating. **Hybrid - Dual Mode:** Heat Pump and Gas Heater will run in tandem during calls for heating. Provides fastest possible heat ups.

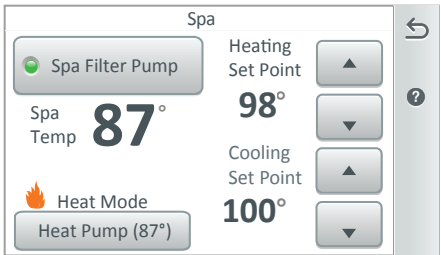
## Spa



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



**Spa Freeze Override Time (0-240 min (4 hrs)):** 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 (min):** 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.

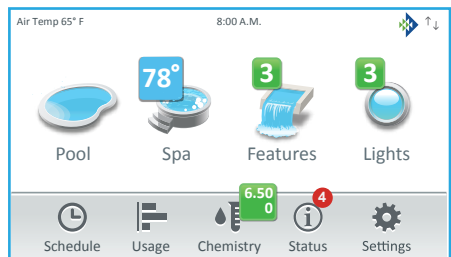
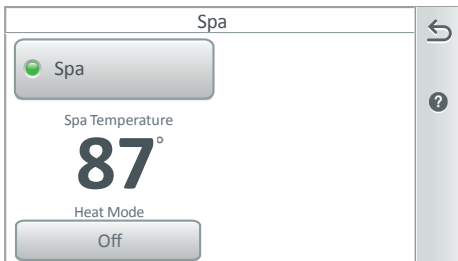


**Spa Heater Button:** Tap to access the Select Heat Mode screen. Tap the desired heat source (solar or conventional heaters). Note: Heat sources are configured from Settings > Advanced System Configuration > Installation Setup > Circuits, see page 56. Also see: Manual OP Priority: Manual ON/OFF circuit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

**Spa Manual Heat ON/OFF:** See page 59: 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 Settings > Advanced System Configuration > Installation Setup > Spa Body Configuration > Spa Settings on page 53.

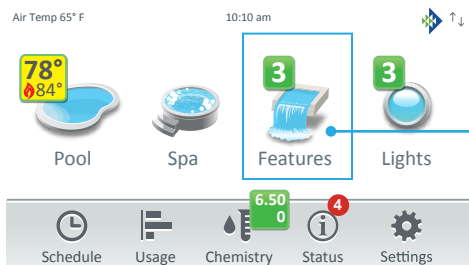
**Schedules (Heat Source and Set Temperature) See page 20:** See Schedules to schedule the pool/spa pump to turn on at a specific time to pre-heat the pool or spa water. From the Schedules Weekly or One Time Only option, select "Heat Source" and select a heat source, then set the Set Temperature settings.

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 **Settings > Advanced System Configuration > Installation Setup > Circuits > Feature Circuits** on page 57.



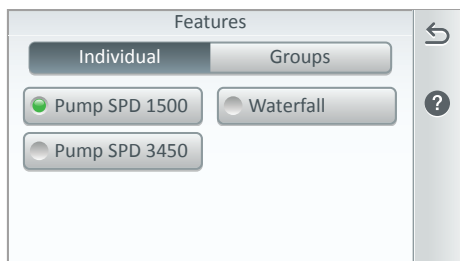
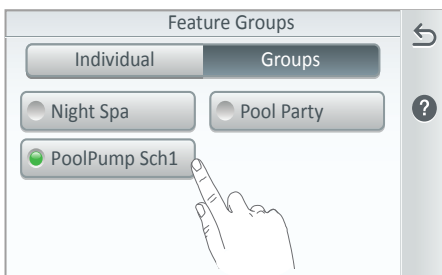
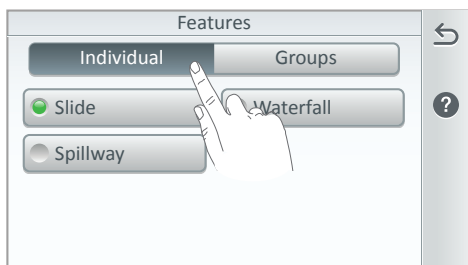
**Green Number Badge:** Displays the number of active feature circuits. Tap the Features icon on the Home screen to display the Feature circuits. To hide the Features number badge. See page 57, **Settings > Advanced System Configuration > Installation Setup > Circuits > Feature Circuits > Feature Circuit Settings (Visible in Features (Y/N) option).**

### 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.

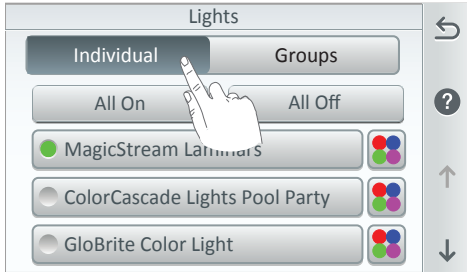
See **Installation Setup** on page 53, **For more about Light Groups** see page 49, 56. **For Feature Groups** see page 58.



## 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 **Settings > Advanced System Configuration > Installation Setup > Circuits**, 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. See page 56.



**All On/All Off Button (IntelliBrite®, ColorCascade®, GloBrite® Light (Color and White), and MagicStream® lights):** 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.

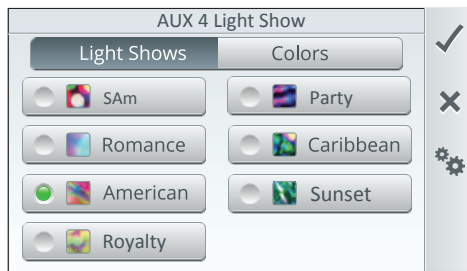
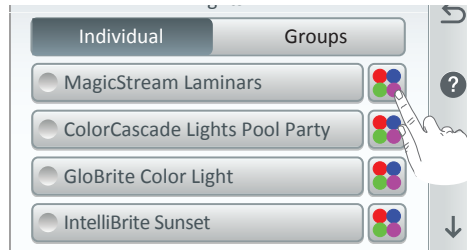
**Individual:** Displays the assigned individual AUX Light circuits. Tap the light name button to turn the light ON or OFF.

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

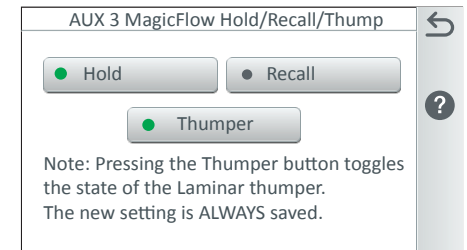
**Light Shows:** Includes IntelliBrite, ColorCascade, GloBrite Color Light, and MagicStream. Tap one of the displayed Light Shows to switch the light show on or off. **The options are:** SAM, Romance, American, Royalty, Party, Caribbean, and Sunset.

**✓ 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 (Individual Fixed Color)

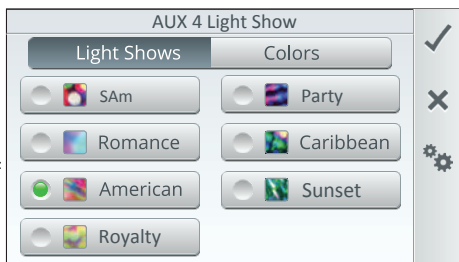
**Fixed Colors:** For IntelliBrite®, ColorCascade®, GloBrite® Color Light and MagicStream® lights:

 **Change a Fixed Color:** From the Lights screen, tap the **Four 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. **Note: GloBrite White light and Dimmer circuits only display white light.**



**Individual Lights -** Switch between fixed colors and light shows:

 **Four Color Dots Edit Button (IntelliBrite):** Tap this button to display the Colors and Light Shows screen. To display a Light Show, tap one of the Light Show buttons. The options are: SAm, Romance, American, Royalty, Party, Caribbean, and Sunset). Tap Check to return to the Lights screen.

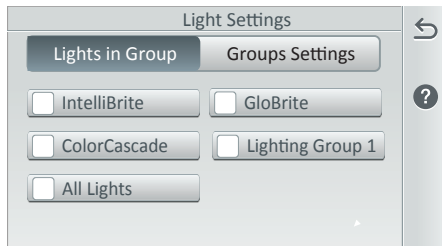
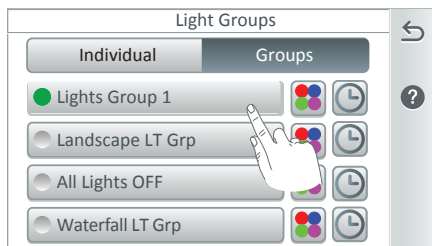


## Light Groups

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).**



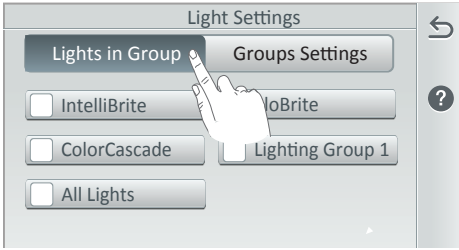
Tap the Edit Pencil icon to display the Light Settings screen. Tap **Light in Group** or **Group Settings** to change the light Fixed Color and Light Shows in a selected group of lights.



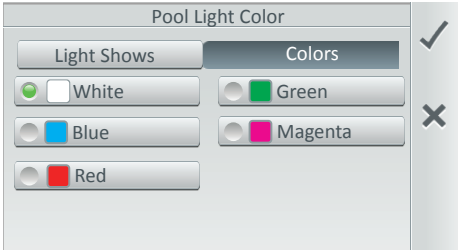
Continue to the next page.

## 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 a different color for the light (White, Blue, Red, Green or Magenta). Tap check to return to the previous screen.

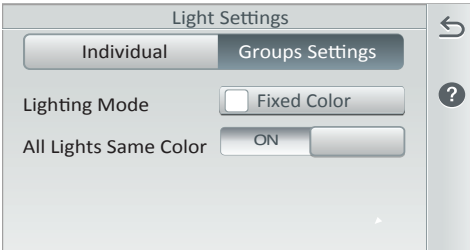


**All Lights Same Color (ON/OFF):** From the Lights Settings screen, tap the All Lights Same Color ON/OFF button.

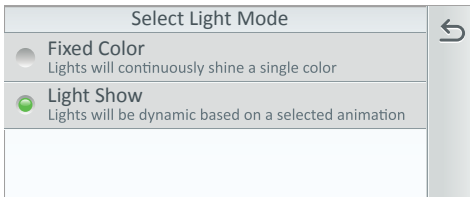
**ON:** All lights in the group are set to the same color.

**OFF:** Each individual fixed color light can display a different color.

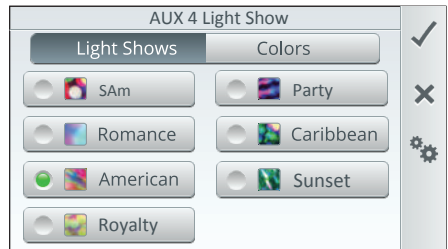
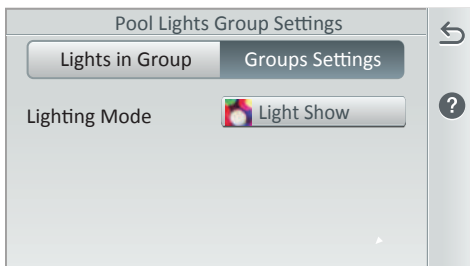
Tap **Light in Group** to view the selected Lighting Mode.



**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**. The SAM feature supports IntelliBrite®, ColorCascade®, GloBrite® Light (Color and White), and MagicStream® lights. 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.

Circuit Name	Delay	Color
Beach Light	Delay 0s	White
Back Yard Light	Delay 15s	Light Green
Pool Light	Delay 25s	Green
Pool Light 2	Delay 35s	Cyan
Spa Light	Delay 55s	Blue

**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 (8) 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: Also 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.**

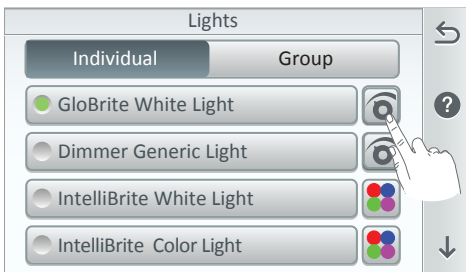
**Configure a GloBrite White Light and Dimmer Light:** Go to Settings > Advanced System Configuration > Installation Setup > Circuits, page 56 and 60. Select AUX Circuits, select the light AUX circuit, tap Circuit Function and select GloBrite White or Dimmer.

### 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.

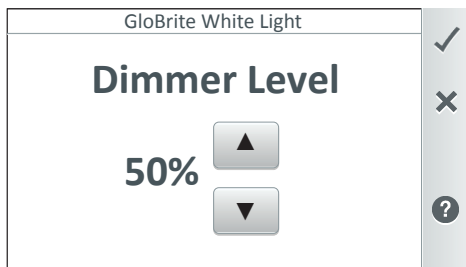
**Note: To assign a GloBrite White Light or Dimmer circuit, go to Settings > Advanced System Configuration > Installation Setup > Circuits, page 56 and 60.**

### 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.

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

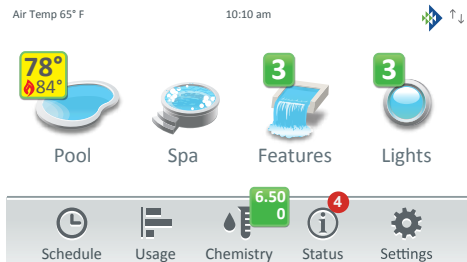
**X button:** Tap to return to the previous screen without saving changes.



# 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.

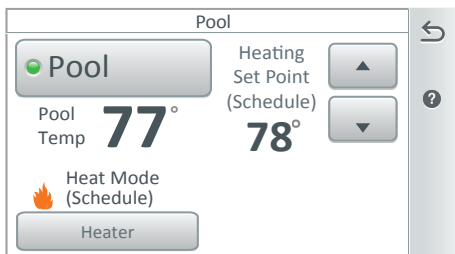


Schedules - 94 free		↶
+ Add Program		
Spa	8:00pm-10:00pm Mon Tue Wed Thu Fri	🗑️
Pool Pump <i>Manual On</i>	5:00am-10:00pm Everyday	?
Pool Lights <i>Manual On</i>	8:00pm-11:00pm Mon Tue Wed Thu Fri	
AUX 4 <i>Manual On</i>	8:00pm-11:00pm Fri Jan 12 2018	

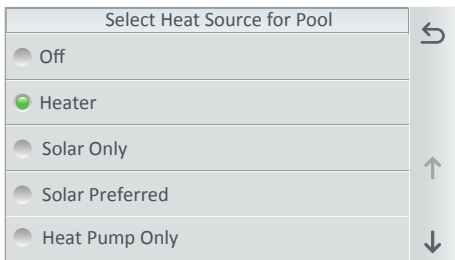
From the Schedule screen you can program On and Off times for circuits (AUX - auxiliary and Feature circuits). Circuits can be scheduled set to turn On or Off all days, weekends, weekdays, or any specific day of the week. Each 24 hour period, equipment (lights, heater, spa jets, filter pump) can be programmed 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 select as the heat source in the Schedules feature (Heat Source), When a schedule is active, you 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 will automatically schedule a circuit or a group of circuits to switch on and off at a specific start and stop time and day. Circuits can be scheduled 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.

Schedules - 94 free

Add Program

Spa	8:00pm-10:00pm Mon Tue Wed Thu Fri	
Pool Pump <i>Manual On</i>	10am-10:00pm Everyday	
Pool Lights <i>Manual On</i>	8:00pm-11:00pm Mon Tue Wed Thu Fri	

**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 (Mon-Sun), 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:** Select: 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.

Select Schedule Type

**Weekly**  
Schedule runs each week on the days you specify

**One Time Only**  
Schedule will run once on a day you specify

Select AUX Circuit

Spa  Pool Pump

AUX2  AUX3

Weekly Schedule

Everyday

Circuit: Pool

Start Time: 8:00

Stop Time: 5:00

Heat Source: Heater

Set Temperature: 77

Select Days to Run

Mon Tue Wed Thu Fri

Sat Sun

Weekdays Every Day

Weekends No Days

## Schedule - Weekly



Select Start Time

Manual Sunrise Sunset

**1:00 AM** Duration **8h 00m**

▲ ▲

▼ ▼



**Duration:** Start time duration: The equivalent 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.**

Select Stop Time

Manual Sunrise Sunset

**9:00 AM** Duration **8h 00m**

▲ ▲

▼ ▼



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

**Duration:** Stop time duration: The equivalent 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 stop time, see page 24.**

Weekly Schedule

Everyday

Circuit Pool

Start Time 8:00

Stop Time 5:00

Heat Source Heater

Set Temperature - 77 +



**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). Note: This feature does not display when using **Don't Change**.

Weekly Schedule

Everyday

Circuit Pool

Start Time 8:00

Stop Time 5:00

Heat Source 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.

Schedules - 94 free	
Add Program	
Spa <i>Manual On</i>	8:00pm-10:00pm Mon Tue Wed Thu Fri
Pool Pump <i>Manual On</i>	11am-10:00pm Everyday
Pool Lights <i>Manual On</i>	8:00pm-11:00pm Mon Tue Wed Thu Fri
AUX 4 <i>Manual On</i>	8:00pm-11:00pm Fri Jan 12 2018

**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.

Select Schedule Type
Weekly Schedule runs each week on the days you specify
<b>One Time Only</b> Schedule will run once on a day you specify

**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).

Select AUX Circuit	
<input type="radio"/> Spa	<input checked="" type="radio"/> Pool Pump
<input type="radio"/> AUX2	<input type="radio"/> AUX3
<input type="radio"/> AUX4	<input type="radio"/> AUX5
<input type="radio"/> Waterfall	<input type="radio"/> Light Group 1
<input type="radio"/> AUX 6	<input type="radio"/> AUX7

**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)



Scheduled One Time Only

Fri, Jan, 12 2018

Circuit

Start Time

Stop Time

Heat Source

Set Temperature  77

Select Start Time

**1 : 00 AM** Duration **8h 00m**

Select Stop Time

**9 : 00 AM** Duration **8h 00m**

Scheduled One Time Only

Fri, Jan, 12 2018

Circuit

Start Time

Stop Time

Heat Source

Set Temperature  77

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

**Duration:** Start time duration: The equivalent 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.

**Duration:** Stop time duration: The equivalent 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.

**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.

**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 page 9.

## 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 IntelliCenter® Control System clock can be manually set or synchronize from the Internet clock. If you select to use the Internet clock your computer clock should be 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.

### How to Use 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 the sunset, so you can enjoy the sunset in your heated spa.

**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



Select Stop Time

Manual Sunrise Sunset

Program will start Today's Sunrise

**2:55 am** **4:55 am**

Offset Program 2:00



**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.

Select Stop Time

Manual Sunrise Sunset

Program will start Today's Sunrise

**5:55 pm** **4:55 am**

Offset Program 2:00



Sunset Program Offset

Hours Minutes

**02** **00**

Before

## Vacation Mode Schedules - One Time Only (Vacation Mode see page 38)

Vacation Mode

Vacation Mode ON

Schedules GRP1 Lts/Pmp/Htr

Duration ON

Start Date Sept. 02, 2017

Stop Date Jan. 02, 2018



**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.

Vaction Mode Schedules

+ Add Program

Pool 8:00pm-5:00pm  
Weekdays: M Tu W Th F



## 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 System Outdoor, Indoor Control Panels and Wireless Remote.

Summary View		
Items	This Period	Last Period
Air Temp	H:78°/L:59°	H:74°/L:57°
Pool Water Temp	H:75°/L:58°	H:80°/L:60°
Spa Water Temp	H:104°/L:90°	H:102°/L:85°
Gas Heater Usage	25 %	36 %
Pool Pump Usage	37.5 %	25.7 %
Spa Pump Usage	32.5 %	30.4 %

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. The Time Period selection range is one day, two days, one week, one month, three months or six months.

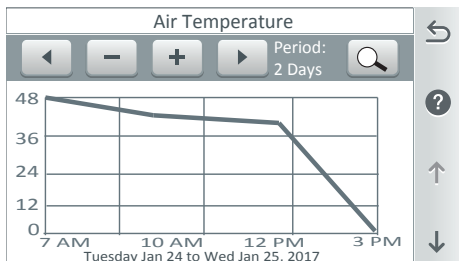
**Usage items:** You can select any of the following six items to display on the Summary View screen. The items are: Any of the following six items can be displayed on the Summary View screen: Air Temp, Pool Water Temp, Spa Water Temp, Solar Temp, Gas Heater, Heat Pump, UltraTemp (Hybrid), Pool Pump, Spa Pump, Dual Speed Pump, IntelliFlo (VS, VSF, VF), pH Data, ORP Data, pH Feed Time, ORP Feed Time. **Note: Up to 6 months of historical usage date can be stored on intelllicenter.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) and also select other system items to display. See the complete Usage Item list as shown above (Usage Items).

**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.

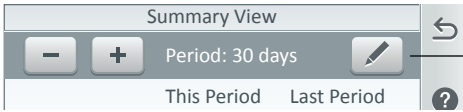
### Graph View Icon (first graph icon right side of the screen)



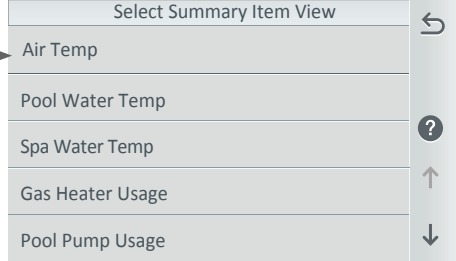
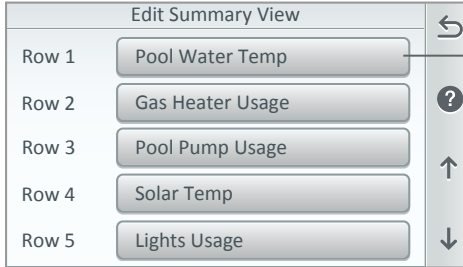
Tap the first Graph icon on the Summary View screen to access a graph view of the displayed Usage Items (1-6).

**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.

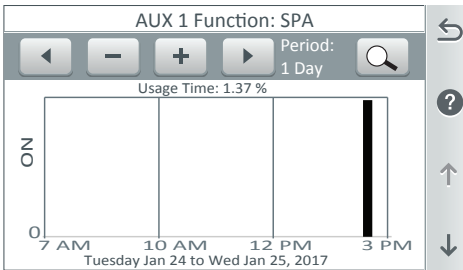


**Change the Summary Usage List Order (1-6):** To change the Summary Usage List order, tap on any Row number item name (1-6), then from the next screen select the new item to display on that Row (Edit Summary View). Tap Return to return to the previous screen to view the updated list order.

**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.

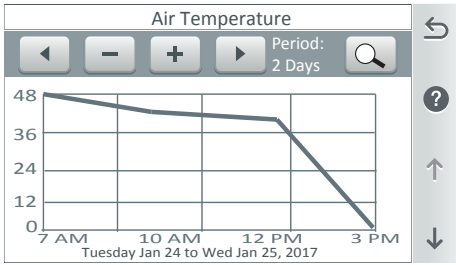
**Usage History Summary View screen:** (Tap the Graph Icon (lower right side of the screen):

**- 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 from

**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 button to scroll through the graph items.

**- 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 from

**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.

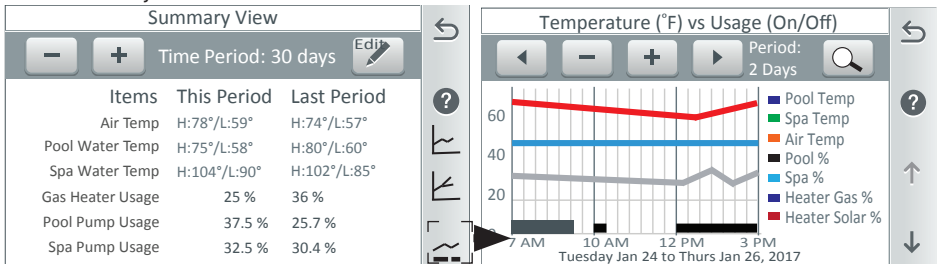
### Usage Graph Comparison Items (Heater vs Pump)

- 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 HeatPump Heater
- Spa Water Temp vs HeatPump Heater
- Pool Water Temp vs Ultra Heater
- Spa Water Temp vs Ultra 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 (IntelliChem) Chemistry Summary screen tap the Chemistry icon on the Home screen. Tap the UP arrow on the screen to display the next page (Page 2 of 2) to view the Pool Output and Spa Output chlorine percentage values. 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. **Note: To display pH and ORP readings on Home screen Chemistry Icon, see Settings > General > Chemistry Readings Badge(Set to ON). 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.**

The image displays two screenshots of the IntelliChem Chemistry Summary screen. The left screenshot shows the main summary with the following data: Pool/Spa FLOW ON, Temp 74 °F, pH 7.69 (Set: 7.50), ORP 316 mV (Set: 750 mV), and Balance -0.99 (Salt: 0 ppm). The right screenshot shows Page 2 of 2 with Pool Output at 50% and Spa Output at 35%. A warning box indicates 'Salt Low' with the message 'The salt level in the chlorinator is low'.

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

The image shows the IntelliChem 1 pH Settings screen. It features a Set Point of 7.5 and a Readout of 6.34. There are up and down arrows for adjusting the set point. A Tank Adjust indicator shows a vertical bar with segments 1 through 6. A warning box at the bottom indicates 'pH Low' with the message 'The pH has been under or at the Low Alert threshold for the configured duration.'

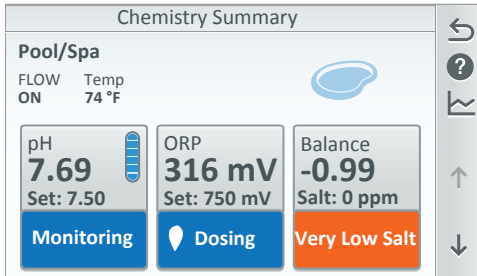
**pH Reading/Set Point/Tank:** Displays the current pH level reading. Tap the **Set Point Up/Down button** to adjust the pH set point value. The adjustable range is from 7.2 to 7.6 in increments of 0.1. The default pH set point value is 7.5.

**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.

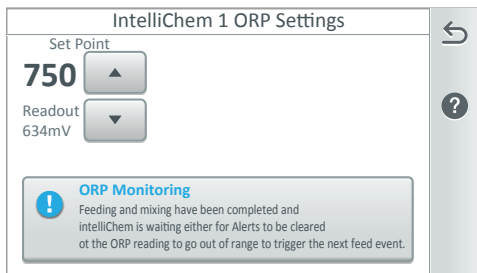
The Tank indicator (1-6 segment) is a visual representation of the amount of muriatic acid currently in the external canister. Tap the Up or Down button to match the amount of muriatic acid in the canister.

## 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.



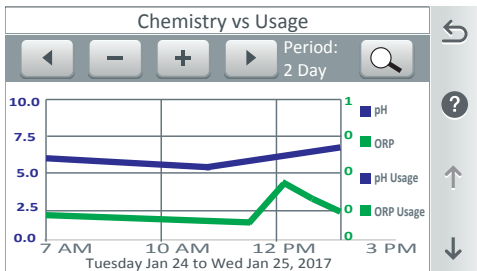
Tap **ORP** to select the ORP setting screen.



**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 IntelliChem 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. **Note:** 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 (use Muriatic acid to lower pH and Soda Ash to raise pH)

**Combined Chlorine (Chloramines):** None (super chlorinate to remove all chloramines)

**Chlorine:** 1.0 - 3.0 ppm

**Cyanuric Acid:** Less than 30 ppm

**Total Alkalinity:** 80 - 120 ppm

**Calcium Hardness:** 200 - 400 ppm

**Salt:** 3000 - 4500 ppm (ideal 3400 ppm)

**Metals:** (Copper, Iron, Manganese): None

**Nitrates:** None

**Phosphates:** Less than 125 ppb

**Total Dissolved Solids:** below 5000 ppm

## Chemistry (IntelliChlor® Salt Chlorine Generator)

IntelliCenter® supports 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 (Page 2 of 2) to view the Pool Output and Spa Output chlorine percentage values for the IntelliChlor SCG.

**Note:** To install an IntelliChlor SCG, see [Advanced System configuration > Installation Setup > Chemistry](#), on page 79. See [IntelliChlor Salt Chlorine](#)

(IntelliChlor) Chemistry Summary Page 2 of 2

Pool Output (%)	-	50	+
Spa Output (%)	-	35	+

**Salt Low**  
The salt level in the chlorinator is low

Chlorinator

Status Settings

Body 1 (%)	-	20	+
Body 2 (%)	-	40	+



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.



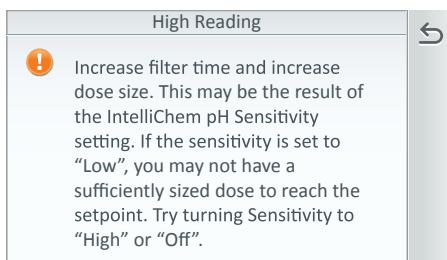
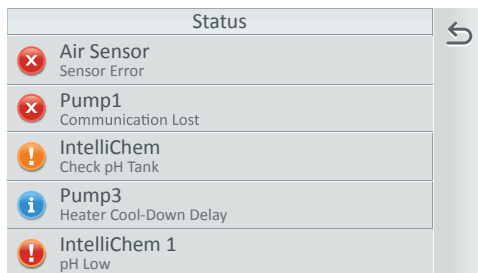
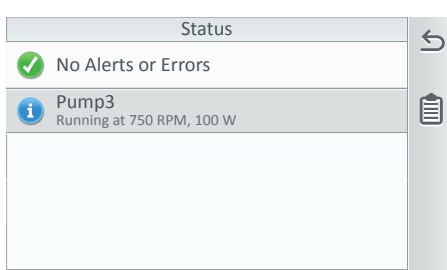
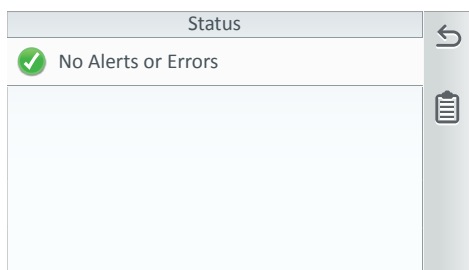
## Status



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



Pump3 Status

RPM	Watts
<b>750</b>	<b>100</b>

i **Heater Cool-Down Delay** 9 min. ago

The filter pump will turn off after the cool-down cycle is complete.



### 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 X:** 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 cool-down delay. Status messages are not automatically logged unless selected from the Status Selection screen.

x **Equipment: Air Sensor**

**Error: Sensor Error**

**Events: 2**

**Instances: 05/12/2013 10:11 AM**  
**03/10/2013 09:00 PM**

## 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**

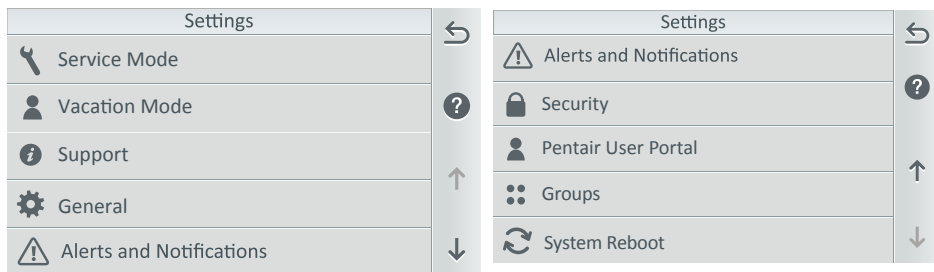
**Water Sensor Open Alarm**  
**Water Sensor Short Alarm**  
**Air Flow Fault Alarm**  
**Flame No Call For Heat Alarm**  
**Ignition Lockout Alarm**  
**Weak Flame Alarm**  
**Communication Lost**

**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® Control System. See *Settings > Advanced System Configuration > Installation Setup*, see page 52.



### Settings Summary:

**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, Email, 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® Control System. Setup system Administrator and Guest passcode. See page 45.

**Pentair User Portal:** Login or Create New Account (enter contacts email address, property name, password). The system will attempt to connect to the account email 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.

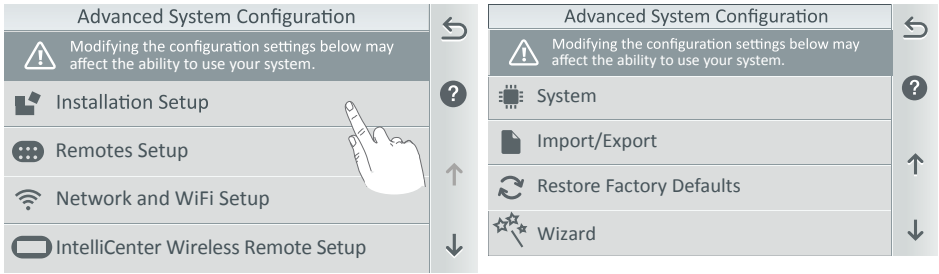
**System Reboot:** Tap System Reboot to restart the system (Outdoor, Indoor Control Panel and Wireless Remote). To cancel system reboot, tap Cancel before four seconds. See page 51.

**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.



### Advanced System Configuration Options Summary:

**Installation Setup:** Configure the IntelliCenter® Control System 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 (SSID), Adjust Wireless Transmit Power, Internet Connection, 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 (min), Spa Freeze Override (min) and Override Delays. See page 88.

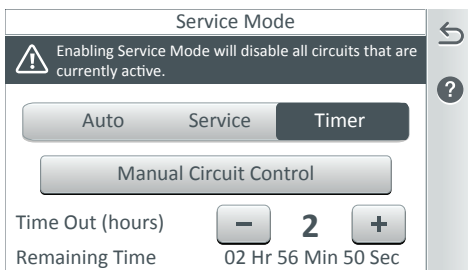
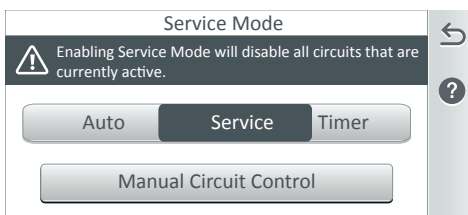
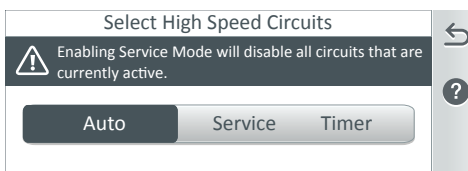
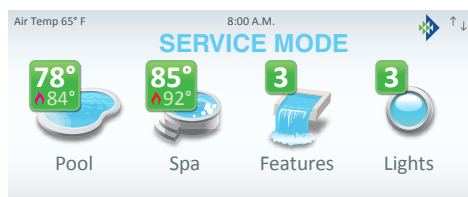
**System:** System Information, Detected Hardware, Firmware update. See page 89.

**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 non-vacation mode schedule.

Vacation Mode	
Vacation Mode	<input type="checkbox"/> ON <input type="checkbox"/>
Schedules	GRP1 Lts/Pmp/Htr
Duration	<input type="checkbox"/> ON <input type="checkbox"/>
Start Date	Sept. 02, 2017
Stop Date	Jan. 02, 2018



**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.**

Vacation Mode Schedules	
+ Add Program	
Pool	8:00pm-5:00pm Weekdays: M Tu W Th F



**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.

Vacation Start Date		
Sept	02	2017
<input type="button" value="▲"/>	<input type="button" value="▲"/>	<input type="button" value="▲"/>
<input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="button" value="▼"/>
305 days to start Vacation		



Vacation Stop Date		
Jan	02	2018
<input type="button" value="▲"/>	<input type="button" value="▲"/>	<input type="button" value="▲"/>
<input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="button" value="▼"/>
61 days to stop Vacation		



## Support

The Support screen displays customer support contact information. Enter the pool service company contact information and the pool sales contact information. Also, you can upload a scanned image of a company business card or a company logo to display with the contact information.


Support	
Pentair Customer Service	(800) 831 7133
Perfect Pools	(800) 555.5555



**Support screen:** Displays contact name and Phone Number. Tap the Contact Name to display name, phone, Email and URL information.

**Tap +** to add a contact.

**Delete a Contact:** Tap the Trash Bin, tap the contact to delete, then tap Check and Yes to delete contact.

Support	
	
Name: <b>Pentair Water Pool and Spa, Inc.</b>	
Phone: <b>(800) 831 7133</b>	
E-Mail: <b>support@poolfyi.com</b>	
URL: <b>http://www.poolfyi.com</b>	



**Support screen:** Displays contact name, phone, Email and URL information.

Contact Information	
Name	<input type="text" value="Pentair Water Pool and Spa"/>
Phone	<input type="text" value="(800) 831.7133"/>
E-Mail	<input type="text" value="support@poolfyi.com"/>
URL	<input type="text" value="http://www.poolfyi.com"/>
<input type="button" value="Import Logo"/>	



**To Add a Contact:** Tap **+** on the Support screen to Enter Contact Name. Tap **Checkmark** to save contact name or **X** to exit without saving the information.

**To edit contact information:** Tap the contact name on the Support screen. Tap Edit to access the contact information. Edit the Name, Phone, E-mail and URL information. Tap the Return to return to the Support screen.

Support	
<h1>Perfect Pools</h1>	
Name: <b>Perfect Pools Inc.</b>	
Phone: <b>(322) 223 2322</b>	
E-Mail: <b>support@ppinc.com</b>	
URL: <b>www.ppinc.com</b>	



**Import Logo:** To load an image (JPG, GIF and PNG), insert USB device into USB port on IntelliCenter® Control System Outdoor Control Panel, Indoor Control Panel, or Wireless Remote and Tap **OK**. Follow the screen instructions.

## General

Location - page 41

Date & Time - page 41

Units - page 41

Features and Lights List Order - page 41

Backlight - page 42

Temperature Sensor Calibration - page 43

Day / Night Themes - page 44

Manual Operation Priority - page 44

Manual Heat - page 44

Chemistry Readings Badge - page 44

Show Badge Colors - page 44

### Location (General)

Location	
Zip Code	Brooklyn, NY United States
Latitude	40.64°
Y Coordinate	
Longitude	-74.02°
Y Coordinate	
Time Zone	UTC-5
Eastern Time (US & Canada)	

*Note: If you do not enter a Zip Code, you have to manually enter the Longitude/Latitude coordinates for your location.*

General	
Units	English
Features and Lights Order	Most Recent
Backlight	
Touchscreen	
Temperature Sensor Calibration	

**Location:** The US Zip code, Latitude, and Longitude coordinates and Time Zone information will automatically populate via a Broadband Internet connection. You can also enter the information manually.

To enter information manually, tap the Location then Zip Code to enter your Zip code for your location. Tap Check to save. The US Zip code information will automatically populate the Latitude and Longitude coordinates and Time Zone via a Broadband Internet connection.

**Time Zone (UTC):** Use the - and + button to set your time zone if no Internet connect is available. UTC-05:00 (Brooklyn New York) is a time offset that subtracts five hours from Coordinated Universal Time (UTC). In North America, it is observed in the Eastern Time Zone during standard time, and in the Central Time Zone during the other eight months (see Daylight saving time). The western Caribbean uses it year round.

*Note: Time and date synchronization for all systems may take a few minutes.*

### Date & Time (General)

Date & Time	
Mode	Internet
Clock Mode	12h
Daylight Savings	On
Date: Jan 12, 2018, Time: 4:04 pm	

**Date & Time:** The displayed date and time on the General screen is synchronized with the Internet connection time. If needed. Tap Date & Time to manually change the IntelliCenter System Control System clocks, including the Outdoor, Indoor, and Wireless Remotes. If the PC time and date do not match the time and date displayed on the Home screen, you need to reset the PC time and date to the time and date set in the Date and Time IntelliCenter® Control System screens.



## Date & Time (Continued) (General)

Date & Time	
Mode	<input type="radio"/> Manual
Clock Mode	<input type="radio"/> 12h
Daylight Savings	<input type="radio"/> ON
Time Set	<input type="text" value="11:49p"/>
Date Set	<input type="text" value="Jan. 12, 2018"/>

**Mode: Manual:** Date and time is manually entered. **Internet:** Date and time retrieved from the Internet.

**Clock Mode:** Select either 12-hour am-pm clock, or 24-hour military time (e.g. 12:00 midnight is 24:00 hours)

**Daylight Savings:** Set to ON will adjust the time automatically for the region you are located in. **Offset (min/month):** Sets the month offset from 0 to 120 (e.g. leap years).

## Units (General)

Units	
<input checked="" type="radio"/> English U.S. Standard Units: GPM, F <sup>o</sup> , fl. oz.	
<input type="radio"/> Metric International Standard Units: l/min, $^{\circ}$ C, ml	

**Time Set:** Manually set IntelliCenter system controller time, am/pm. If the system is connected to the Internet, resetting the system date will override the Internet time.

**Date Set:** Manually set IntelliCenter system controller date. If the system is connected to the Internet, resetting the system date will override the Internet date.

**Offset (min/month):** Sets the month offset from 0 to 120 (e.g. leap years).

**Units:** Sets the system units of measure to English or Metric. Set values to display **English US Standard Units:** GPM, Fahrenheit (F) degrees, Fl, oz) or **Metric International Standard Units:** L/min, Celsius (C) degrees, ml.

## Features & Lights Order (General)

Use this feature to define the order of the circuits displayed on the Features and Lights screens. For example, the order of the named circuits can be displayed alphabetically (up and down) or left to right.

Features and Lights Lists Order	
List Order	<input type="radio"/> Alphabetically
Grid Display	<input type="radio"/> Left to Right
Reset	<input type="button" value="Clear Order Lists"/>

Select Grid Flow	
<input checked="" type="radio"/> Left to Right Sort items starting at top left to right going down	
<input type="radio"/> Top to Bottom Sort items starting at top to bottom going right	

**List Order (User Define):** Tap List Order and select the list order: Alphabetically (Default): Sort in ascending name order.

**Most Recent:** Sorted in descending from most recently used.

**Most Frequent:** Sorted in descending from most frequently used.

**Custom Order:** User defined order.

**Grid Display:** Select Left to Right (Default) or Top to Bottom.

**Set Grid Flow:** Select Left to Right or Top to Bottom.

**Reset:** Tap Clear Order Lists to reset the List order and Grid Display to default settings.

## Backlight (General)

Backlight			
Brightness Level	-	85	+
Dimness Level	-	15	+
Dim Display (m)	-	5	+
Turn Off Display (m)	-	15	+

Backlight			
Brightness Level	-	85	+
Dimness Level	-	15	+
Dim Display (m)	-	5	+
Turn Off Display (m)	-	15	+
Deep Sleep Mode	ON		
Deep Sleep Time (Hr)	-	1	+

**Back Light:** Brightness Level: Adjust the screen brightness level from 33 to 100%.

**Dimness Level:** Adjust the contrast level from 10 to 100%.

**Dim Display (min):** While in other screens, sets the time to return to the Home screen (from 0 to 240 minutes (20 hrs).

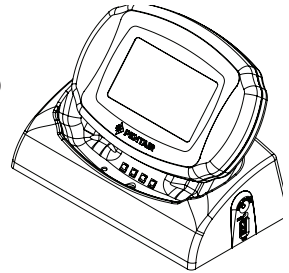
**Turn Off Display (min):** Set the time to turn off the screen from 0 to 240 minutes (20 hrs). Note: The time set to turn off the screen also affects the start time of the Deep Sleep feature, see below for more information. *Also see Day/Night Theme Selection Settings > Advanced System Configuration > General > Day/Night Theme, page 44.*

### Wireless Remote only:

**Battery Conservation Mode (Deep Sleep):** Tap Deep Sleep Mode to turn on this feature. The default setting is ON. This feature allows you to save the battery life while the Wireless Remote is in its cradle.

**Deep Sleep (Hr):** Deep Sleep time can be set from 1 to 3 hours (Default 3 hrs.). Select when you want the device to go to sleep to conserve battery life.

**Example: While device is of its cradle:** Go to Settings > General> Backlight. Tap On to turn on Deep Sleep. The default setting is (ON). The Deep Sleep time is set for three hours. The device will go in to Deep Sleep after the screen goes black which will start **after** current time set in the **Turn Off Display** feature. The device is now in save battery mode. The device is still responsive up to an hour, so you can still use the device. This will stop Deep Sleep mode, then the Backlight settings are in effect.



## General List Order

Any screen where there is a list can be displayed alphabetically or based on the system definition (default).

General List Order	
<input checked="" type="radio"/>	Alphabetically Sorted in ascending order
<input type="radio"/>	System Sorted based on System index

**General List Order: Lists order of installed equipment:** Define the general list order based on Alphabetically (sorted in ascending order or System sorted on system index).

**Select List Order:** Sort Alphabetically, Most Recent, Most Frequent or Custom Order.

## Temperature Sensor Calibration (General)

**Temperature Sensor Calibration:** List the installed IntelliCenter® Control System sensors (ambient air, pool and solar (if installed)). The current sensor temperature is displayed. Tap sensor name bar to access Sensor Calibration screen.

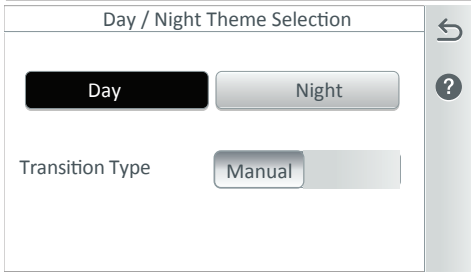
**Sensor Calibration:** Adjust the sensor temperature value. Use Up/Down arrow to Increase or decrease temperature value compared to actual reading. Tap Check mark to save setting. Tap X to exit without saving setting.

Temperature Sensor Calibration		←
Water Sensor	75° F	
Solar Sensor	89° F	?
Air Sensor	72° F	

**Temperature Sensor Calibration Procedure:** Before you start, you need an accurate all weather thermometer. Calibrate the air sensor in the shade. The Home screen displays the Pool, Spa Water Temp and Air Temp setting. Calibrate the Spa and Pool temperatures the same way as described below for Water and Air temperature sensor. Be sure the air temperature sensor is located in the shade for accurate readings. To calibrate the air, pool and spa sensors:

1. First, tap the Pool or Spa button on the Temperature Sensor Calibration screen to switch on the spa or pool filter pump.
2. Tap Pool Sensor to start the pool calibration.
3. Place the thermometer in the spa or pool. Take an accurate temperature reading. When calibrating the air sensor, place the thermometer next to the air sensor. The sensor is normally located near or under the Load Center or Power Center enclosure, not inside the enclosure. Take an accurate temperature reading in the shade.
4. On the Calibrate Sensors screen, use the Up or Down buttons to raise or lower the Air, Pool and Spa temperature to match the corresponding thermometer temperature reading.
5. Press the OK Calibration button when done.

## Day / Night Theme Selection (General)



### Day/Night Theme Selection:

Select either Day or Night screen contrast levels.

**Day:** In Day mode the LCD screen uses a white background for normal day light viewing.

**Night:** Select Night mode for low light conditions. This mode uses a black back ground with white text.

### Transition Type:

**Manual:** Allows you to manually select either Day or Night Theme modes.

**Auto:** This option will automatically transition between Day and Night screen mode based on the IntelliCenter® Control System 24 hour clock.

## Manual Operation Priority (General)

**Manual OP Priority: ON:** This feature allows for a circuit to be manually switched OFF and switched ON within a scheduled program, the circuit will continue to run for a maximum of 12 hours or whatever that circuit Egg Timer is set to (see page 56), after which the scheduled program will resume. This feature will turn off any scheduled program to allow manual pump override.

The Default setting is OFF.

## Manual Heat (General)

**Manual Heat: ON (Default OFF):** If a GAS heater is configured for the Spa, but the Heat Source is set to OFF in the Spa screen, enabling this option will result in the heater being temporarily enabled whenever the body is manually turned on.

For more information, see 9 and 12.

## Show/Hide Chemistry Readings Badges (General)

**Show Chemistry Readings Badges (ON/OFF):** Change this setting to ON or OFF to show or hide the pH and OPR readings badge (if an IntelliChem Controller is being used). The Default setting is OFF.

## Show Badge Colors (ON/OFF) (General)

**Badge Colors (ON/OFF):** Change this setting to ON or OFF to show or hide the Pool and Spa color badges (Yellow (Delays), Blue (manual enabled filter pump circuits)). The Default setting is ON. The badges are displayed on the Home screen Pool and Spa icons.

## Alerts & Warnings (Status - Settings) For complete descriptions of Alerts, Warnings, Error Codes and Error messages, see the IntelliCenter Installation Guide (P/N 522989)

Connected Gas Heater	
Circuits	2/2
Pumps	5/8
MasterTemp Heater	1/13
IntelliChlor	Configure...
IntelliChem	1 / 17

**Alerts & Warnings Shown in Status:** Displays a Badge icon on the Status Home screen icon for selected items show on this screen. *See page 33.*

**Configure...:** Tap on the **Configure...** option to display the selectable items. From the Select Shown in Status screen, tap on items or **Select ALL** items to shown on the Home screen Status icon. If Configure is displayed on

the option button, Alerts & Warnings Status Badge will not be displayed.


**Circuits (2/2):** Select 2 status conditions: Valves delay and heater cool down.

**Pumps (8/8):** Select up to 8 common pump and filter warnings and alarms.

**Connected Heater: MasterTemp and Max-E-Therm (1-13) (see page 34):** 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.

**Chemistry IntelliChlor (6/6):** Select up to six common IntelliChlor SCG warnings and alarms. **Chemistry IntelliChem(17/17):** Select up to 17 common IntelliChem Controller related warnings, errors, alarms and more.

## Security (Settings)

Security	
 Security is not Enabled. Please enable security in the Administrator Settings below.	
Administrator - Logged In	24/24 Sections

Administrator Security Settings	
Enable Security	<input checked="" type="checkbox"/> ON



### Enable Security (ON): (Only the Administrator can access this screen):

Tap Administrator then tap ON to Enable Security. Enter a Passcode for the Administrator. To log out the Administrator, tap Administrator and Yes.

Administrator Security Settings	
Log Out Administrator	Yes
Enable Security	<input checked="" type="checkbox"/> ON
Enable Guest	<input checked="" type="checkbox"/> ON
Passcode	****
Timeout (min)	- 5 +

**Log Out Administrator (Yes - No Passcode required):** Tap Log Out Administrator to log out of the system and return to the Home screen.

**Enable Administrator Security (ON/OFF):** Tap ON to Enable Administrator Security. Tap OFF to disable Administrator Security (no Administrator or Guest passcode required to access the system).

**Enable Guest: ON:** The Administrator assigns a **Guest** access to the system without a passcode. From the Security screen, tap **Guest**, then tap **Can Access** and select the system Sections that the Guest has access to.

**Passcode (\*\*\*\*):** Displays the current Administrator 4-digit passcode (4 asterisks shown to omit the assigned Passcode). Tap the Passcode button to change the Passcode.

**Timeout (min):** Tap the **plus** or **minus** button to set the screen elapse time (1-10 minutes) before a screen message is displayed for the passcode. *Note: A padlock icon displayed on the Home screen (top right) indicates there is an Administrator logged in (passcode assigned to the system).*

## Security (Settings)



Security	
	Add New User
Administrator - Logged in	24/24 Sections
Guest	8 /24 Sections
GCH Guest	2 /24 Sections
Joe NS Bloggs	24/24 Sections

**Security:** This screen shows the Administrator is logged in, and lists Guests assigned by the Administrator and their allowable system Sections. 0/24 Sections indicates no access to the system.

**Administrator Log out:** Tap Administrator to enable or disable the system security. To log out the Administrator, tap Yes.

**User List:** Tap a name to display the User Security Settings screen: Change the user name, passcode, access to sections and timeout setting.

**Add New User (Admin must be logged in):** Tap Add New User, enter the new user's name. Select up to 24 sections that the user has access to. Up to 10 users can be assigned access to the sections. Tap Check to save the name and return to the previous screen.

**Note:** Tap Guest to access the Guest Security Settings screen to allow the Guest to access 0 to 24 system settings.

**Note:** A Guest account does not require a passcode.

**Delete Guests:** Tap the Trash can icon and select the Guest(s) to delete from the Security screen.

USER Security Settings	
Name	Joe Bloggs
Can Access	10/24 Sections
Passcode	****
Timeout (min)	- 5 +

Guest User has Access to these Checked Screens		✓
Select All	Deselect All	
<input checked="" type="checkbox"/> Vacation Mode	<input checked="" type="checkbox"/> Support	✗
<input checked="" type="checkbox"/> General Settings	<input checked="" type="checkbox"/> Alerts&Notification	↑
<input checked="" type="checkbox"/> User Portal	<input checked="" type="checkbox"/> Groups	
<input checked="" type="checkbox"/> Remotes	<input checked="" type="checkbox"/> Advanced Settings	↓

**Can Access:** Tap this button and select the system sections that the guest has access to.

**Select All:** Tap Select All to select all of the system functions listed, or select individual selections. Tap Check to save selections. Tap X to exit without saving changes.

**Deselect All:** Tap Deselect to deselect all of the system functions selections in the list.

Enter New Passcode				
*	*	*	*	✗
1	2	3		
4	5	6		
7	8	9		
0				

**Passcode (\*\*\*\*):** Displays the current 4-digit Guest passcode [4 asterisks shown to omit the assigned Passcode]. Tap the Passcode button to change the Passcode. **Timeout (min):** Tap plus or minus button to set the screen elapse time (1-10 minutes) before a screen message is displayed for the passcode.

**Note:** A padlock icon displayed on the Home screen (top right) indicates there is an Administrator logged in (passcode assigned to the system).

**Note:** If the incorrect Passcode is entered multiple times, the Access Denied screen is displayed. This screen will time out for 60 seconds. After 60 seconds has elapsed, tap OK to enter the correct Passcode.

## Pentair User Portal ([www.intellicenter.com](http://www.intellicenter.com)) (Settings)



Pentair User Portal
Enable Web & Mobile Interface
Add New Account
Login to Existing Account
Update Owner Information
View Connection Information



Enable Web & Mobile Interface
Web Interface <input checked="" type="checkbox"/> ON
The default setting for Web Interface is ON. This enables the Web based and mobile interface which allows local network and Internet communications with your home network. To disable Web based and mobile interface, set to OFF.



### Web and Mobile Interface:

Tap to access the Web and Mobile Interface screen. The default setting for Web Interface is ON. This enables the Web App and Mobile Interface which allows local network and Internet communications to your home network. To disable Web based and mobile interface, set to OFF. **Note To test the Internet connection see page 85.**

**Note: For the IntelliCenter® Control System to connect to the Web requires connection of the Wireless Bridge Transceiver Antenna to the Outdoor main circuit board. For installation instructions, see the IntelliCenter Control System Installation Guide (P/N 522989).**

**Add New Account:** Enter the owner's information, Email Address, Property Name, Password. The system will attempt to connect to the owner's account Email address (via the Internet) to [www.intellicenter.com](http://www.intellicenter.com).

**Connecting to your pool using the Web App:** Go to [www.intellicenter.com](http://www.intellicenter.com) and sign in using the pool owner's user email address. Select your pool listed on the Installations screen to display the Home screen.

**Login to Existing Account ([www.intellicenter.com](http://www.intellicenter.com)):** Enter email address and password. The system will attempt to connect to the owner's account Email address via the Internet connection.

**Update Owner Information:** Edit owner information: Property Name, Name of Owner, Address, City, State, Zip Code, County, Time Zone, Phone number, Email. Location information is populated when entered in General > Location, Date & Time. **See page 40.**

**View Connection Information:** View server connection information: Last messages received, total number of server connects.

### Add a new Account

1. Tap **Enable Web & Mobile Interface**. Change the toggle to **ON** and tap the Return arrow. Tap **Add New Account**. Tap **Property Name** and enter the name of the property, and tap the Checkmark. Tap **Email** and enter the users Email address, and tap the Checkmark. Tap the Checkmark to go to the next screen.
2. The users Email address should be shown on the first button. If it is not shown, tap the button and add it as described in the steps above. Tap **Enter Password** and enter a Password, then tap the checkmark. Note: The password should have a least one uppercase letter. Tap the Re-Enter Password button and retype the password, and tap the Checkmark. Tap the Checkmark to complete the process. Once the account setup is complete, return to the home screen and wait for the Pentair logo to appear which indicates you are connected to [www.intellicenter.com](http://www.intellicenter.com) and ready to remotely connect to your IntelliCenter Control System using your User Name and Password used previously.

## Groups (Circuits) (Settings > Groups)

The Groups feature allows multiple Light circuits and AUX circuits to be grouped together and assigned to one ON/OFF button that is displayed on the Home screen Lights Groups screen. Up to 40 groups of light circuits and AUX circuits can be assigned.

To access the **Add Group (GROUPS)** page: Tap Settings > Groups or tap the 4-Dots on the AUX Circuits page.

AUX Circuits	
Spa Function: Spa	Spa
AUX 1 Function: IntelliBrite	Pool Light
AUX 2 Function: IntelliFlo	Pool Pump

Groups	
<b>+</b> Add Group	
Night Group Light Group	4 Circuits
Pool Party Circuit Group	4 Circuits

Circuit Group Settings	
Group Name	Night Group
Configure Circuits	3
Egg Timer	12hr. 0min.

Group Type
Light Group
Circuit Group

**+Add Group (Circuits):** Tap Add Group, and select either Circuits Group.

### Circuits (Group Settings):

**Group Name:** Tap the name button to access the keyboard. Enter a name for the group of circuits.

**Configure Circuits:** Tap Configure Circuits to access the available circuits. **Note:** The circuits displayed depend on the model of the Personality Card installed. Light circuits (AUX circuits) are assigned in the AUX circuits screen.

**Egg Timer:** Tap the Egg Timer button to display the Hours and Minutes button. Tap the Hours and Minutes button to select a manual time-out from 0 to 23 hrs. 59 mins. for the circuit. The Egg Time is a specified time delay (hrs/mins) for the circuit, once it is turned on manually. **Don't Stop:** Tap the Hours button until 23 hours is displayed, then tap the button again to display **Do Not Stop**. The Do Not Stop feature will continuously run the circuit until the it is manually turned off.

From the AUX Circuits (4 Dots Icon), you can also create a group of light circuits and AUX Circuits. Go to **Advanced System Configuration > Installation Setup > Circuits > AUX Circuit (page 56) and Feature Circuits (page 58)**.

Configure Group Circuits:	
Spa Function: Spa	On
AUX 1 Function: IntelliBrite	ON
AUX 2 Function: IntelliFlo	Off
AUX 3 Function: Generic	Ignore
AUX 4 Function: Generic	Off

**Configure Circuits:** Tap Configure Circuits to access the circuits in the selected group. **Tap the name of the circuit to access the settings for the circuit.**

**Note:** The circuits displayed depend on the model of the Personality Card installed. Light circuits (AUX circuits) are assigned in the AUX circuits screen.

Each Circuit within a circuit group can be configured as **ON**, **OFF** or **IGNORE**. If On, Off or Ignore is indicated in **ORANGE** for a circuit, this indicates a possible schedule time overlap could occur. In this case, the last schedule created will take effect.



## Groups (Circuits) Continued

Spa - Configure Circuit

Include Circuit

**Caution** Circuit Group 1 is conflicting with Circuit Group 2. There is a schedul time overlap. Please adjust the schedules or Select NO (Include Circuit) for this circuit.

Spa - Configure Circuit

Include Circuit

Configure Group Circuits:

Spa Function: Spa	On
AUX 1 Function: IntelliBrite	ON
AUX 2 Function: IntelliFlo	Off
AUX 3 Function: Generic	Ignore
AUX 4 Function: Generic	Off

**Note:** A group of AUX Circuits or Light Circuits can be switched ON/OFF from one button in the Features/Groups screen, and the Lights/Groups screen.

## Groups (Lights) (Settings)

Use the Light Groups feature to group multiple light circuits together and assign them to one ON/OFF button on the **Home screen Features Groups screen**. Groups of circuits are displayed on the Lights screen (page 14), and Lights Groups (page 16).

To access the **Add Group (GROUPS)** page: Tap **Settings > Groups** or tap the **4-Dots on the AUX Circuits page**. **+Add Group (Lights):** Tap Add Group, and select the Lights Group and enter a name for the light group. Tap Check to save and continue to the Lights Group Settings page. Tap the group name in the Groups list.

**Note:** A group of light circuits or AUX circuits can be turned ON/OFF from one button in the Features (Circuits), Lights (circuits) screen on the Home screen. **See page 14.**

**Included Circuits: Yes/No:** Include or exclude this circuit in the selected Circuit Group.

**ON:** When the Circuit Group turns ON, the individual circuits will be set to the state in which it's configured (ON).

**OFF:** Turns the circuit OFF in the group.

**IGNORE:** The Circuit Group is included in the group regardless of the On/Off state.

**Return:** Return to the previous page.


**Example 1:** If AUX1 in the circuit group is currently running on schedule, and AUX 1 in the circuit group is set to OFF, then AUX 1 would turn OFF during the duration of the Circuit Group being active.

**Example 2:** If AUX1 in the circuit group is currently running on schedule, AUX1 in the group is set to OFF, if the amount of time the group has run is less than the total time of the schedule, then when the group is turned OFF, AUX1 will turn back ON.

**Example 3:** A possible circuit schedule time overlap could conflict if more than one Circuit Group has AUX1 set to is ON, In this case, the last schedule to go ON has priority and will take effective. The AUX circuit in conflict is indicated in ORANGE for the individual circuits in both circuits groups.

AUX Circuits	
Spa Function: Spa	Spa
AUX 1 Function: IntelliBrite	Pool Light
AUX 2 Function: IntelliFlo	Pool Pump

## Groups (Lights) (Settings) Continued

Groups	
 Add Group	
Night Group Light Group	4 Circuits
Pool Party Circuit Group	4 Circuits
Deck Lights Light Group	5 Light(s)
WaterFall Lights Light Group	5 Lights


Light Group Settings	
Group Name	All Yard Lights
Included Lights	3
Egg Timer	0hr. 0min.

**Egg Timer:** Tap the Egg Timer button to display the Hours and Minutes button. Tap the Hours and Minutes button to select a manual time-out from 0 to 23 hrs. 59 mins. for the circuit. The Egg Time is a specified time delay (hrs/mins) for the circuit, once it is turned on.



**Do Not Stop:** Tap the Hours button until 23 hours is displayed, then tap the button again to display **Do Not Stop**. The Do Not Stop feature will continuously run the circuit until it is manually turned off.

**Nested Groups:** If necessary, you can create a Group of circuits within another Group of circuits, as long as they are from the same group of Lights, or AUX Circuits.

**Delete Groups:** Tap the Trash icon; check the desired Groups to delete. Tap Yes to delete.

Light Group Settings	
Group Name	All Yard Lights
Included Lights	3
Egg Timer	0hr. 0min.
	

Select Circuit to Edit	
Beach Light	Delay 0s White
Back Yard Light	Delay 15s Light Green
Pool Light	Delay 25s Green
Pool Light 2	Delay 35s Cyan
Spa Light	Delay 55s Blue

Group Type	
Light Group	
Circuit Group	

**Included Lights:** Tap the Included Lights button to access the available light AUX circuits. The displayed light circuits depend on the model of the Personality Card installed. AUX circuits are assigned in the AUX circuits screen. **For more information, see, Advanced System Configuration > Installation Setup > Circuits > AUX Circuit - OCP 0 or Feature Circuits, see page 56.**

**Color Settings:** Tap this button to display the assigned light circuits and the current delay time and selected light color.

**Note:** The Color Swim Settings effect feature synchronizes any IntelliBrite® or Landscape color lights. The color swim effect starts from the first light, then the color change is delayed across to the adjacent lights creating a wave delay effect. For more information about light features, see Circuit Function in Advanced System configuration > Installation Setup > AUX Circuits > AUX Settings (Circuit Function). See page 56.

## Groups (Feature Circuits (Generic or Spillway) (Settings)



Select Swim Color	
<input checked="" type="radio"/> White	
<input type="radio"/> Light Green	
<input type="radio"/> Green	
<input type="radio"/> Cyan	
<input type="radio"/> Blue	

**Select Circuit to Edit:** Tap any of the the light names displayed to change the current light color and delay time (from 0 to 60 seconds). Color options are: White, Light Green Green, Cyan, Blue, Lavender, Magenta and Light Magenta. **Color Name:** The name of the light is assigned in the circuits screen. See **See page 56.**

Color Swim Settings	
Color Name	<input type="button" value="Pool Light"/>
Color	<input type="button" value="White"/>
Delays(s)	<input type="button" value="-"/> 0 <input type="button" value="+"/>

**Color:** Tap the Color button to display the Select Swim Color screen. Select a different color for the light from the list. **Delays(s):** Tap the - /+ button to set the delay for the light from 0 to 60 seconds.

**Delete Circuits:** Tap Feature Circuits, tap the Trash icon, select the circuit(s) to delete, then tap X to delete the circuit(s) and exit to the previous screen.

### Feature Circuits Overview

Up to 32 individual Feature Circuits can be configured to combine various circuits together to a single ON/OFF button to turn on or off at one time. For example, you can create a Feature Circuit to turn on the spa, spa light, fountain, and fountain light, and patio lights all from one button in the Feature screen (Home screen). Feature Circuits can be setup to control equipment which is not controlled by an AUX circuit such as pumps and lights. Use Feature Circuits to control multiple valve actuators, a dual speed pump (turn on high speed), or a spa spillway effect (in a pool spa combination, all of the pool water can be diverted to the spa then spill back into the pool). To create a Feature Circuit, first assign the Feature Circuit a name, then assign the circuit a function (Circuit Function).

**Restore Factory Defaults:** Use this feature to overwrite the system configuration with the default factory settings. Follow the screen prompts.

**Guest Security Settings:** Displays the guest user(s) that have been assigned a passcode and access to system sections (0 to 24). Tap 0 /24 Selections to access the next screen to allow the Guest to access 0 to 24 system settings.

### System Reboot (Settings)



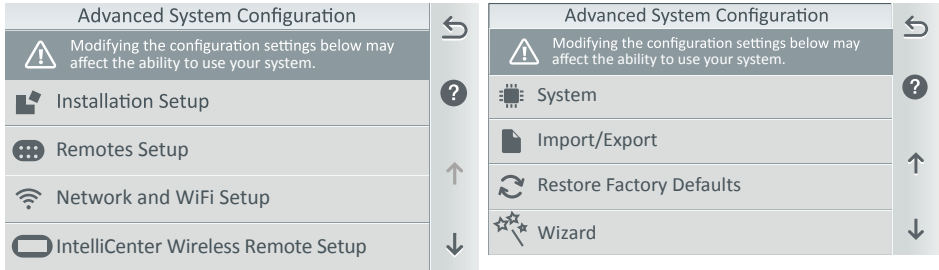
Tap the System Reboot button to reset the system (applies to Outdoor, Indoor Control Panels and Wireless Remotes. Immediately after tapping System Reboot a message screen is displayed to confirm that you wish to reset the system. If you want to stop the system reset, there is a five second delay in which you can cancel the system reset. Tap cancel to stop the system reset.

This feature has the same system reset function using the Reset Button on the Wireless Remote cradle, and on the front of the Indoor or Outdoor Control Panel. See page 35.

## Advanced System Configuration (Settings)



**Notice:** The Advanced System Configuration settings may affect the systems pool and spa operations. Before making changes be sure you have the latest system settings backed up to a memory stick, see Settings > Advanced System Configuration > System. See page 89 for details.



### Advanced System Configuration Options Summary:

**Installation Setup:** Configure the IntelliCenter® Control System system. Body Configuration (page 53). Circuits (page 56), Pumps (page 62), Heaters (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 wireless network (SSID, Ethernet). IntelliCenter Wireless Remote Setup: Configure Ethernet, Connect to a Wireless Network (SSID), Test Internet Connection and Reboot Wireless Device. See page 85.

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

**Delays:** Valve delay settings, Heater Cool Down ON/OFF, Freeze cycle time (min), Spa Freeze override (mins) settings. See page 88.

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

**Import / Export:** Import System Configuration, Export System Configuration, Export Status Logs, Export Historical Data, Export Debug Data. See page 90.

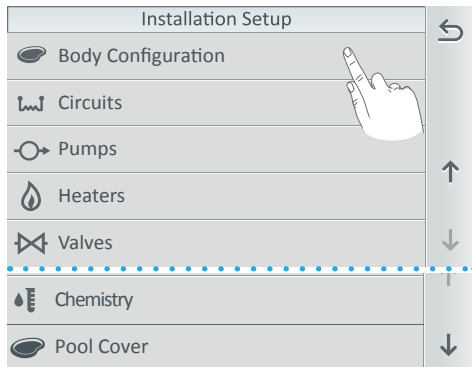
**Restore Factory Defaults:** Overwrite the current system configuration with the default factory settings. Follow the screen prompts. See page 92.

**Setup Wizard:** Configure the system using the step-by-step setup wizard assistant. See page 93.

## Advanced System Configuration (Installation Setup)



**Installation Setup:** From the Installation Setup screen you can setup pool/spa equipment for the each body of water (pool/spa).



**Circuits:** Setup the system auxiliary circuits (AUX), see page 56.

**Pumps:** Setup circuits for pumps, see page 62.

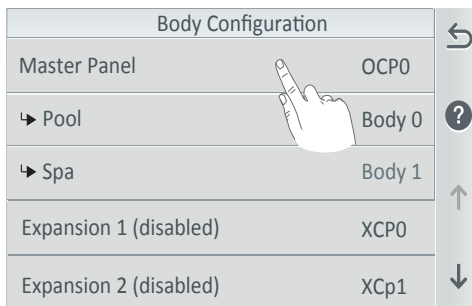
**Heaters:** Setup circuits for heaters and heat source, see page 72.

**Valves:** Setup circuits for system valves, see page 77.

**Chemistry:** Enable IntelliChem® Controller and/or IntelliChlor® SCG, see page 79.

**Pool Cover:** Setup Pool Cover circuit settings, see page 80.

**Body Configuration:** Configure the IntelliCenter® Control System Personality Cards, (Main Panel (OCP0), Expansion enclosures 1, 2, and 3), and the body of water capacity for the pool and spa.

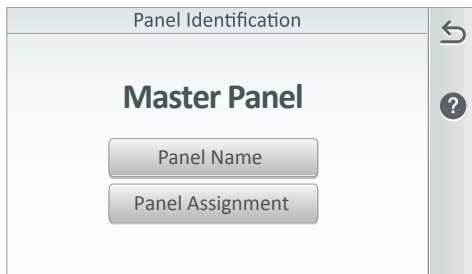


**Master Panel (Panel Identification) (OCP 0):** Tap Master Panel to display the Panel Identification screen.

**Expansion 1, 2, and 3 (see page 55):**

A maximum number of three expansion enclosures can be connected via RS-485 to the Master Panel (Main Control Board).

See page 111 for more information about IntelliCenter Control Panel system configurations.



**Panel Identification (Master Panel):**  
**Panel Name:** Tap Panel Name and enter the panel name for the main Master Panel. Tap Check to save.

**Panel Assignment:** Tap Panel Assignment to reassign circuits to another panel. Tap Check to save.

## Advanced System Configuration (Installation Setup)



### Panel Identification (Master Panel) (Continued)

**Panel Assignment**

Circuits are already assigned in one or both panels. Changing the panel assignment will also switch the circuit assignments.

Are you sure you want to change the panel assignment?

**Panel Assignment:** Tap Yes to change the panel assignment.

**Show Identifier in Other Panels:** Tap to select other installed panel to display in other panel screen. Tap Check to save.

**Change Panel Assignment**

Selecting a new panel assignment will switch assignments between panels.

- OCP0
- XCP0
- XCP1
- XCP2

**Change Panel Assignment:** To change the panel assignment, tap on the panel name. Tap Check to save and return to the previous screen.

### Pool (Body 0) - For Pool and Spa combination (shared equipment).

Body Configuration		↶
Master Panel	OCP0	
↳ Pool	Body 0	?

Select Body 0 Type for Master Panel

- Pool
- Spa

**Pool (Body 0 Settings):** From this screen you can reassign the body type/\*, name and capacity.

**Body Type:** Reassign the body type. Choose either Pool or Spa. Tap Return to return to the previous screen.

**Body Name:** Enter the body name.

**Body capacity:** Enter the capacity of the body of water from 1000 - 150,000 gallons (US gallons/liters).

### Spa (Body 1) -For Pool and Spa combination (shared equipment).

Body Configuration		↶
Master Panel	OCP0	
↳ Pool	Body 0	?
↳ Spa	Body 1	↑

Select Body 1 Type for Master Panel

- Pool
- Spa

**Spa (Body 1 Settings):** From this screen you can reassign the body type, name and capacity.

**Body Type:** Reassign the body type. Choose either Pool or Spa. Tap Return to return to the previous screen.

**Body Name:** Enter the body name.

**Body capacity:** Enter the capacity of the body of water from 1000 - 40,000 gallons (US gallons/liters).

## Installation [Body Configuration]

Body Configuration	
Master Panel	OCP0
↳ Pool	Body 0
↳ Spa	Body 1
Expansion 1 (disabled)	XCP0
Expansion 2 (disabled)	XCp1

**Expansion 1 (disabled) (XCP0):** equipment).

**Expansion 2 (disabled) (XCP0) :** For Pool and Spa combination (shared equipment).

**Expansion 3 (disabled) (XCP0) :** For Pool and Spa combination (shared equipment).

Panel Identification
<h3>Expansion 1</h3> <div style="display: flex; flex-direction: column; gap: 10px;"> <div style="border: 1px solid gray; padding: 5px; width: 100%;">Panel Name</div> <div style="border: 1px solid gray; padding: 5px; width: 100%;">Panel Assignment</div> <div style="border: 1px solid gray; padding: 5px; width: 100%;">i10x (10 Relays)</div> </div>

### Panel Identification

#### (Expansion 1, 2, and 3):

**Panel Name:** Tap Panel Name and enter the panel name for the Expansion 1 enclosure. Tap Check to save.

**Panel Assignment:** Tap Panel Assignment to Disable or Enable the Expansion Panel. Tap Check to save.

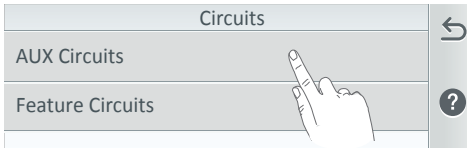
Expansion Panel Daughter Card
<input type="radio"/> i5x (default)
<input checked="" type="radio"/> i10x (requires i10x kit)

### Expansion Panel Daughter card - i10x

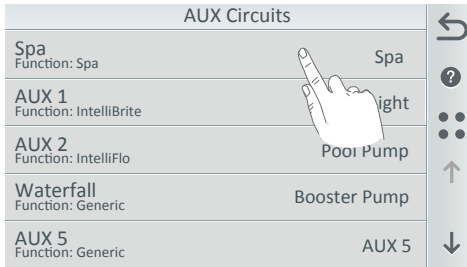
**(10 Relays):** This button displays the Daughter Card attached to the main Personality Card (if available) installed in Expansion enclosure number 1. Tap this button to enable an additional Daughter Card connected to the main Personality board (in this example i10x (10 Relays). Tap the Expansion Panel Daughter Card button to enable the card (Green light on).

*See page 111 for more information about IntelliCenter® Control Panel system configurations.*

## Circuits



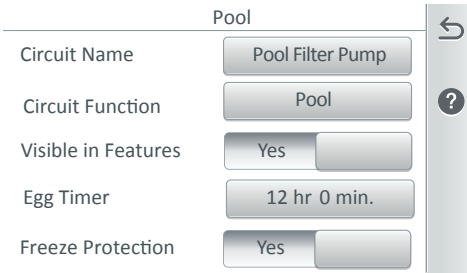
**AUX Circuits:** Tap AUX Circuits to display the available AUX circuits to assign a function.



**AUX Circuits:** Tap the AUX Circuit (Function name) to assign a function to the circuit.

**Create individual (AUX) Circuits or Group of Circuits (4 Dots Icon):** Tap this icon on right side of the screen to create Groups of circuits. **Note:** For more about Groups (in Settings), see page 48.

See page 58 for Feature Settings.



**Circuit Name:** Select one of the displayed circuit names and tap Check to save. For a complete list of Circuit Names see page 61. To customize a circuit name, tap on the keyboard icon on the right side of the screen and enter the new name.

**Circuit Function:** Assign the circuit function. For a complete list of Circuit Functions, see page 60.

**Egg Timer:** Tap the Egg Timer button to display the Hours and Minutes button. Tap the Hours and Minutes button to select a manual time-out from 0 to 23 hrs. 59 mins. for the circuit. The Egg Time is a specified time delay (hrs/mins) for the circuit, once it is turned on manually.

**Don't Stop:** Tap the Hours button until 23 hours is displayed, then tap the button again to display **Do Not Stop**. The Do Not Stop feature will continuously run the circuit until the it is manually turned off.

**Visible in Features (Lights and Generic Circuits only):** Select ON to display this circuit in the Home, Features screen, see page 8.

**Freeze Protection:** Assign freeze protection for this circuit. See page 59 for details.



## Feature Circuits

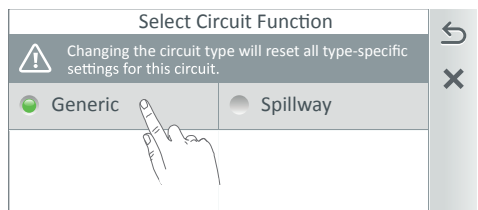
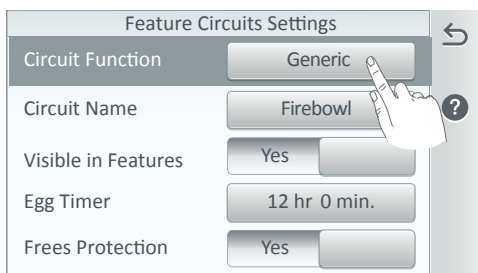
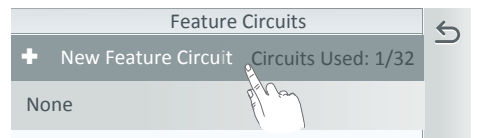
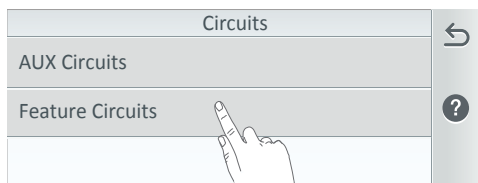


Up to 32 individual Feature Circuits can be assigned as Generic circuits or Spillway (Pool/Spa) circuits. A Feature Circuit can be assigned to activate the Spa Spillway effect, where in a pool/spa combination, pool water is diverted to the spa then spilled back into the pool. Feature Circuits can be setup to control equipment which is not controlled by an AUX circuit such as pumps and lights.

Use Feature Circuits to control multiple valve actuators, a Dual Speed pump (turn on high speed), or a spa spillway effect (in a pool spa combination, all of the pool water can be diverted to the spa then spill back into the pool).

**Home Screen Features Green Badge:** Displays the number of active feature circuits. To display circuits in the Features screen, see **Settings > Advanced System Configuration > Installation Setup > Circuits > Feature Circuits > Feature Circuit Settings (Visible in Features (Y/N) option).**

**Feature Circuits (Generic or Spillway):** From the Home screen, tap **Settings > Advanced System Configuration > Installation Setup > Circuits > Feature Circuits.** See page 56 and previous page for details.



**+ New Feature Circuit (Generic or Spillway):** Tap **New Feature Circuit** to create a new Feature Circuit (up to 32 total). Select the Feature Circuit Name, from the displayed list or tap the Keyboard icon and enter a custom name.

**Circuit Function:** Tap **Generic** and select either **Generic** or **Spillway** for the circuit function. Tap **Check** to return to the previous screen.

**Circuit Name:** Displays the assigned circuit name. To change the circuit name, tap the name button.

**Visible in Features:** Select **ON** or **OFF** to display the Feature Circuit in the Feature screen (Home screen).

**Egg Timer:** Set time duration of 0 to 12 hours.

**Don't Stop:** Tap the Hours Up button until 23 Hours displays, tap once again to display **DO NOT STOP**. Once the circuit is switched on, it will remain on until it is switched off.

**Note:** *The Egg Timer sets a specified time delay (hrs/mins) for the circuit to function once it is turned on.*

**Freeze Protection:** Assign freeze protection for the circuit. See page 59.

## Using Feature Circuits



**Create A Feature Circuit (Lights/Circuits):** From Settings > Advanced System Configuration > Installation Setup > Circuits > Feature Circuits > Add Group (Four Dots Icon) you can create a group of Lights or AUX auxiliary Circuits. These Groups of lights and auxiliary circuits are displayed in the Features > Groups screen. You can also create groups of auxiliary and light circuits in the GROUPS screen (see page 48), which will be displayed in the *Features > Groups* screen.

From the Feature Circuit screen you can create a group of circuits for Lights or Circuits (see page 56). For example, you could create a Feature Circuit assigned to one button to turn on your spa, spa light, fountain, fountain light, and patio lights. A Feature Circuit also has the capability to switch a circuit off. You could also create your own custom name, for example, SPA PARTY could be used if there was a spa fountain which should not be on when spa is on (because it could put cold water in the spa) it can be set up in the Feature Circuit to automatically switch off when Spa Party is switched on. A Feature Circuit can also be used to switch off any number of lights with one button.

**Note:** A Feature Circuit may not be assigned to light dimmers although they can turn on light dimming circuits.

**Note:** When setting up Feature Circuits, one Feature Circuit can turn on another Feature Circuit, which might result in the system turning on (or off) a circuit that you don't wish to turn on (or off).

### Feature Circuits (Create a Group of Lights or Circuits)

AUX Circuits	
Spa Function: Spa	Spa
AUX 1 Function: IntelliBrite	Pool Light
AUX 2 Function: IntelliFlo	Pool Pump

Group Type	
Light Group	
Circuit Group	

Light Group Settings	
Group Name	All Yard Lights
Included Lights	3
Egg Timer	0hr. 0min.
Color Settings	

**(4 Dots Icon):** Tap the 4 Dots icon on right side of the screen to display the Add Group screen. **Note:** For more about creating groups of circuits, see page Groups on page 48.

Select either the **Light** or **Circuit Group**. Enter a name form the group of lights or circuits.

**Select Included Circuits:** Tap Included Circuits (or Lights) and select the available AUX circuits and Features Circuits to be assigned to this group of circuits.

**Color Settings (Delays):** Adjust the AUX delay time (1-59 seconds) between lights.

**Egg Timer:** Tap the Egg Timer button to display the Hours and Minutes button. Tap the Hours and Minutes button to select a manual time-out from 0 to 23 hrs. 59 mins. for the circuit. The Egg Time is a specified time delay (hrs/mins) for the circuit, once it is turned on manually.

**Don't Stop:** Tap the Hours button until 23 hours is displayed, then tap the button again to display **Do Not Stop**. The Do Not Stop feature will continuously run the circuit until the it is manually turned off.

## Feature Circuits



**Feature Circuit:** A total of 32 Feature Circuits can be assigned to Circuit and Light circuits. A Feature Circuit is assigned special logic to the circuit. can control equipment that is not controlled by AUX circuits. Typically, AUX circuits are used for high voltage equipment like pumps and lights. Feature Circuits are used for low voltage equipment like valve actuators and pump speeds or pump speeds.

For example, an automatic pool cleaner pump, would assign the circuit function *Master Cleaner*. With this cleaner logic the cleaner pump would not run without the filter pump being on first, and, the cleaner pump would automatically shut off whenever the spa is switched on. The cleaner will go on after the five minute delay. Also, the automatic cleaner pump will turn off when the spa and/or solar is turned on. Be careful not to duplicate circuit names with these circuits. A Feature Circuit can be assigned to switch a two-speed Filter Pump from high speed to low speed.

**Note:** Individual and group circuit buttons only display on the Home Lights screen.

**Valve Actuators and Feature Circuits:** Feature Circuits can be assigned to control up to five (5) valve actuators per load center. To control a total of eight (8) actuators requires the installation of the optional Valve Modules (see page 111) which includes six (6) additional actuators outputs (C, D, E, F, G, H) per panel enclosure.

**Note:** When using solar heat, note that for shared equipment pool and spa combination, valve A is always used for solar. For dual body dual equipment, valve A is always the pool and valve B is always the spa.

**Freeze Protection:** Freeze Protection ON, switches on all circuits during, if the outdoor air temperature sensor detects the temperature is getting close to freezing (36°F). The system cycles through all circuits that have been assigned freeze protection, and runs the circuits to stop the pipes from freezing. This is especially important if there is a pool and spa combination. If freeze protection is set to both the spa and pool circuits, the filter pump switches on and the pool and spa valves alternate to keep the water moving in both the pool and spa. This process continues until the freeze condition is over.

**Note:** Freeze protection is activated when the air temperature drops to 36°F. If the spa is running a schedule or operated manually, this will override freeze protection. During freeze protection, FREEZE PROTECT ACTIVE is displayed on the Home screen.

The main pool filter circulation pump is freeze protected as long as FREEZE PROTECTION is set to ON. For all other equipment, Freeze Protect must also be specified on the individual device manager screen. Some devices default to freeze protect.

**Heater Operation During Freeze Protection:** The heater will not activate during a Freeze Protection period unless it is manually turned on.



## Circuit Functions

Generic	No special Logic. Simple On/Off control of a circuit with all the programmable capabilities.
Spillway	For pool/spa combinations where the spa is raised above the pool. This setting moves the return valve so that the filter pump pulls the water from the pool and returns it to the spa, creating a water fall effect. Automatic pool cleaners are turned off when this feature is turned on.
Master Cleaner	Works with automatic pool cleaner pumps or cleaner valve actuator. This feature will: <ul style="list-style-type: none"> <li>- Force the filter pump on five (5) minutes before the cleaner.</li> <li>- Turn the cleaner off when the spa is on.</li> <li>- Turn the cleaner off for five (5) minutes when the solar heating begins.</li> </ul>
Chem Relay	Assign a dedicated relay for the IntelliChem Controller.
Light	Allows special lighting features to work, such as ALL lights on or ALL lights off.
IntelliBrite	Activates the colors of an IntelliBrite LED light.
GloBrite	Activates a GloBrite Color Light with IntelliBrite 5G LED capabilities.
GloBrite White	Activates a GloBrite White LED light with dimmer capabilities.
MagicStream (IntelliBrite)	Activates a MagicStream laminar water feature with IntelliBrite 5G LED capabilities.
Dimmer	Light with dimmer capabilities. Dimming relay must be installed.
Color Cascade	Activates a ColorCascade water feature with IntelliBrite 5G LED capabilities.
Master Cleaner 2	Works with automatic pool cleaner pumps or cleaner valve actuator. This feature will: <ul style="list-style-type: none"> <li>- Force the filter pump on five (5) minutes before the cleaner.</li> <li>- Turn the cleaner off when the spa is on.</li> <li>- Turn the cleaner off for five (5) minutes when the solar heating begins.</li> </ul>



## Circuit Names

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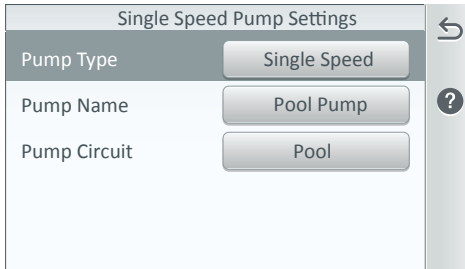
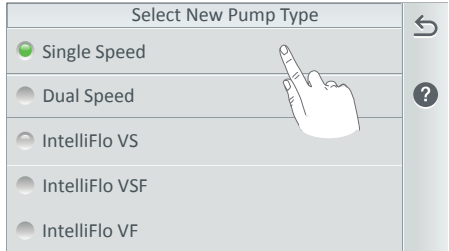
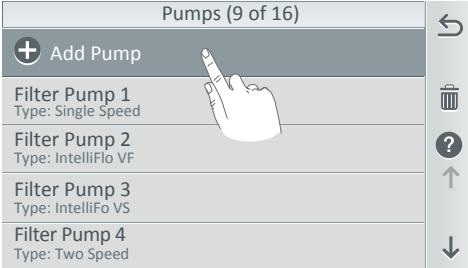
<i>None</i>	JETS HIGH	STATUE LIGHT
AIR BLOWER	JETS LOW	STREAM
AIR BLOWER 1	JETS MEDIUM	SWIM JETS
AIR BLOWER 2	LAMINAR LIGHT	ULTRAVIOLET
AUX Extra	LAMINARS	UV
BACK LIGHT	LANDSCAPE LIGHT	WATER FEATURE
BACKWASH	LIGHTS	WATER FEATURE 1
BBQ LIGHT	LOW SPEED	WATER FEATURE 2
BEACH LIGHT	LOW TEMPERATURE	WATER FEATURE 3
BOOSTER PUMP	MAGICSTREAM BUBBLER	WATER FEATURE LIGHT
BUBBLER	MIST	WATER FEATURE LIGHT 1
CABANA LIGHT	MUSIC	WATER FEATURE LIGHT 2
CAVE LIGHT	NOT USED	WATER FEATURE LIGHT 3
CAVE WATERFALL	OZONATOR	WATERFALL
CHEM. FEEDER	PATH LIGHTS	WATERFALL 1
CHLORINATOR	PATIO LIGHT	WATERFALL 2
CLEANER	PERIMETER LIGHT	WATERFALL 3
COLORCASCADE	POND LIGHT	WATERFALL LIGHT
COLORWHEEL	POOL	WHIRLPOOL
DECK JET	POOL HIGH	YARD LIGHT
DECK JETS	POOL LIGHT	
DECK LIGHT	POOL LIGHT 1	
DRIVE LIGHT	POOL LIGHT 2	
EDGE PUMP	POOL LIGHT 3	
ENTRY LIGHT	POOL LIGHTS	
FAN	POOL LOW	
FILL LINE	POOL PUMP	
FIRE BOWL	POOL SAM	
FIRE BOWLS	POOL SAM 1	
FIRE FEATURE 1	POOL SAM 2	
FIRE FEATURE 2	POOL SAM 3	
FIRE FEATURE 3	RAIN EFFECT	
FLOOR CLEANER	SECURITY LIGHT	
FOUNTAIN	SHEER DESCENT	
FOUNTAIN 1	SLIDE	
FOUNTAIN 2	SPA	
FOUNTAIN 3	SPA HIGH	
FOUNTAIN LIGHT	SPA LIGHT	
FOUNTAINS	SPA LOW	
FRONT LIGHT	SPA SAL	
GARDEN LIGHT	SPA SAM	
GAZEBO LIGHT	SPA WATERFALL	
HIGH SPEED	SPILLWAY	
HIGH TEMPERATURE	SPRINKLERS	
IN-FLOOR CLEANER		
INFINITY EDGE		
JETS		

## Pumps (Single Speed, Dual Speed, IntelliFlo® VS, VSF, VF)



### Single Speed Pump

**+ Add Pump:** To add a pump, tap + Add Pump to access the Select New Pump Type screen to setup the pump settings. Pump types are: Single Speed, Dual Speed, IntelliFlo VS, IntelliFlo VSF, and IntelliFlo VF.



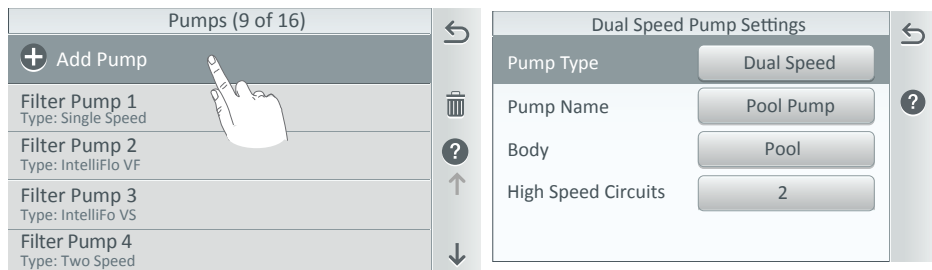
**Single Speed Pump Settings:** From the Single Speed Pump Settings screen you can change the pump type, name and assign the pump to a body of water (pool, spa, or pool/spa).  
**For information about priming the pump, see page 70.**

**Operating a Single Speed Filter Pump:** To manually turn the filter pump on or off, tap the Pool Filter Pump button on the second Pool screen (on Home screen). If the heater is on and active, and Heater Cool down feature is enabled; when you tap Pool Filter Pump button to turn off the filter, only the heater will turn off and the pool filter pump will automatically turn off after 5 minutes of heater cool down period. You can override the heater cool down period by taping the button again to turn off the filter pump.

## Pumps (Dual Speed)



**+ Add Pump:** To add a Dual Speed pump, tap + Add Pump to access the pump type screen and select Dual Speed.



**Dual Speed Pump Settings:** Pump Type, Pump Name, Body, and High/Low Speed Circuits. For information about priming the pump, see page 70.

**Pump Type:** To change the pump type, tap Pump Type button to access the pump type screen. Select the pump for the list. Tap Check to save the new pump type and return to the previous screen.

**Pump Name:** Tap the Pump Name button and enter the name of the pump. Tap Check to save the name and return to the previous screen.

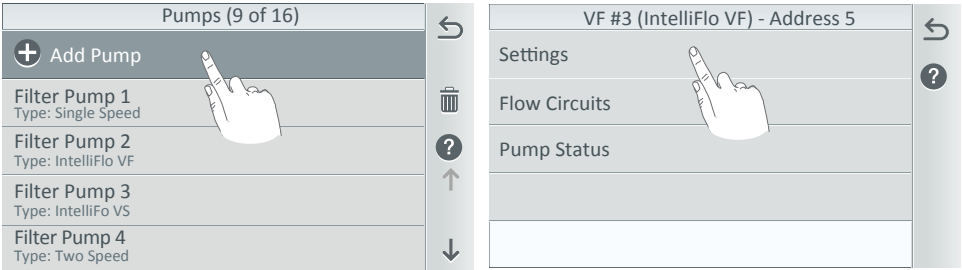
**Body:** Assign the pump to a body of water (pool, spa, or pool/spa (shared equipment)).

**High Speed Circuits:** Select a circuit for the high speed. You can choose up to eight (8) high speed circuits. Tap the High Speed Circuits button. Tap Add Circuit and select an AUX circuit to assign the high speed to. Tap Check to save the circuit and return to the previous screen.

**Operating a Dual Speed Pump:** To manually turn a dual speed filter pump on or off, tap the Pool Filter Pump button on the second Pool screen (on Home screen). When the pump is off, tap the Filter Pump button to turn on the high speed of the filter pump. Tap the button again switch to low speed operation. *Note the pump will run the high speed to prime and establish normal water flow if the pump has been off for more than 30 seconds. If the heater is on and active, and Heater Cool down feature is enabled; when you tap Pool Filter Pump button to turn off the filter, only the heater will turn off and the pool filter pump will automatically turn off after 5 minutes of heater cool down period. You can override the heater cool down period by taping the button again to turn off the filter pump.*

## Pumps (IntelliFlo® VS)

**+ Add Pump:** To add an IntelliFlo VS pump, tap + Add Pump to access the pump type screen and select IntelliFlo VS.



**IntelliFlo VS Settings:** Pump Type, Name, Address, Min. Speed (450 RPM), Max. Speed (3450 RPM), Step Size (10-250 RPM), Prime Time (0-5 min.), and Prime Speed (450-3450 RPM). **For information about priming the pump, see page 70.**

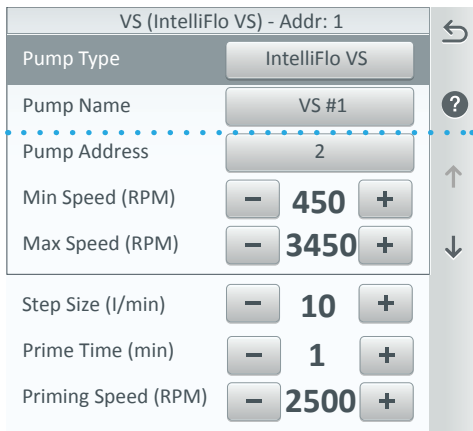
**Pump Type:** To change the pump type, tap Pump Type button to access the pump type screen. Select the pump for the list. Tap Check to save the new pump type and return to the previous screen.

**Pump Name:** Tap the Pump Name button and enter the name of the pump. Tap Check to save the name and return to the previous screen.

**Pump Address:** Assign the pump address from 1-16.

**Minimum Speed (RPM):** This is the minimum pump speed but still generating sufficient flow in the pool. The system will not run lower than 450 RPM. The lower you can establish this flow rate the better the energy savings. **Note: Other equipment may require higher pump speed to operate.**

**Maximum Speed (RPM):** This is generally the pump speed required for backwashing the pool filter. The pump will not allow a higher speed of 3450 to prevent damage to the pool system hydraulics.



**Step Size:** The pump speed step size can be set from 10-250 RPM.


**Priming Time (min):** The system priming time can be set from 0-5 minutes.

**Priming Speed (RPM):** The system priming speed can be set from 450-3450 RPM.



## Pumps (IntelliFlo® VS)



Circuits (1-8)	
 Add Circuit	
Pool	1000 RPM
Booster Pump	2500 RPM
WF Pump	1340 RPM



**Speed Circuits:** Assign the speeds to the circuits you wish to use. Tap Speed Circuits and tap Add Circuits to assign a new AUX circuit. To change the pump speed of a listed circuits, tap the AUX name to change the assigned RPM setting. Tap Return to save the setting and return to the previous screen.


Affiliated Circuit Settings	
Circuit	AUX3
Speed (RPM)	- 1000 +



### Affiliated Circuit Settings:

**Circuit:** The assign circuit to control the pump speed.

**Speed (RPM):** Assign pump speed from 450 to 3450 for the selected circuit.

Pump Status	
RPM	Watts
<b>750</b>	<b>100</b>
 <b>OK - No Problems Detected</b> Pump appears to be running normally. Click here to view possible issues not being detected.	

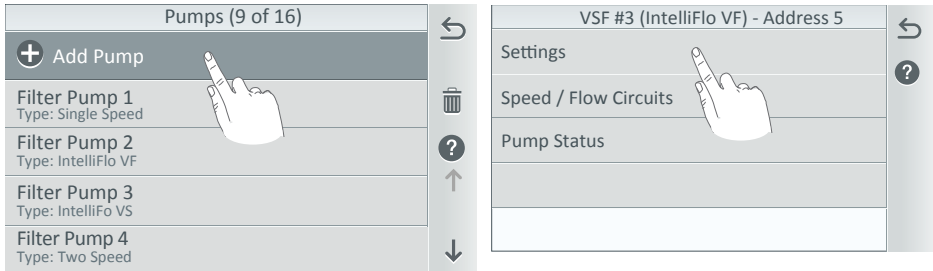


**Pump Status:** Shows the current power usage in Watts, speed, in revolutions per minute (RPM) while the pump is operating. Tap Return to return to the previous screen. Also see: Tap Status on the Home screen to display the current pump status and error condition.

## Pumps (IntelliFlo® VSF)



**+ Add Pump:** To an IntelliFlo VSF pump, tap + Add Pump to access the pump type screen and select IntelliFlo VSF.



**IntelliFlo VSF Settings:** Pump Type, Name, Address, Min. Speed (450 RPM), Max. Speed (3450 RPM), Min. Flow (GPM 20 GPM), Max. Flow (140 GPM), Step Size (10-250 RPM), and Step Size (1-10 GPM). **For information about priming the pump, see page 70.**

**Pump Type:** To change the pump type (function), tap Pump Type button to access the pump type screen. Select the pump for the list. Tap Check to save the new pump type and return to the previous screen.

**Pump Name:** Tap the Pump Name button and enter the name of the pump. Tap Check to save the name and return to the previous screen.

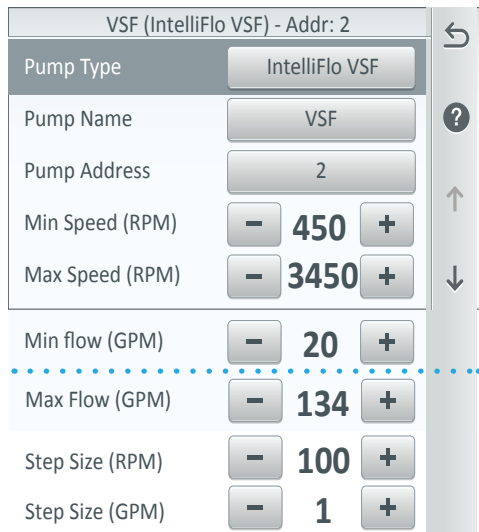
**Pump Address:** Assign the pump address from 1-16.

**Minimum Flow (GPM):** This is the minimum flow rate speed but still generating sufficient flow in the pool. The IntelliCenter® Control System will not run lower than 20 GPM. The lower you can establish this flow rate the better the energy savings.

**Maximum Flow (GPM):** This is generally the flow rate required for backwashing the pool filter. The pump will not allow a higher flow rate of 140 GPM to prevent damage to the pool system hydraulics.

**Step Size (RPM):** The pump speed step size can be set from 10-250 RPM.

**Step Size (GPM):** The pump flow rate step size can be set from 1-10 GPM.



## Pumps (IntelliFlo® VSF)



Circuits (1-8)	
	Add Circuit
Pool	1000 RPM
Booster Pump	2500 RPM
WF Pump	1340 RPM

**Speed Circuits:** Assign the speeds to the circuits you wish to use. Tap Speed Circuits and tap Add Circuits to assign a new AUX circuit. To change the pump speed, tap the AUX name to change the assigned RPM setting. Tap Return to save the setting and return to the previous screen.

Affiliated Circuit Settings	
Circuit	AUX3
Typr	GPM
Flow (GPM)	- 40 +

**Affiliated Circuit Settings:**  
**Circuit:** The assign circuit to control the pump speed.

**Flow (GPM):** Assign pump flow rate from 20-140 for the selected circuit.

**Speed (RPM):** Assign pump speed from 450 to 3450 for the selected circuit.

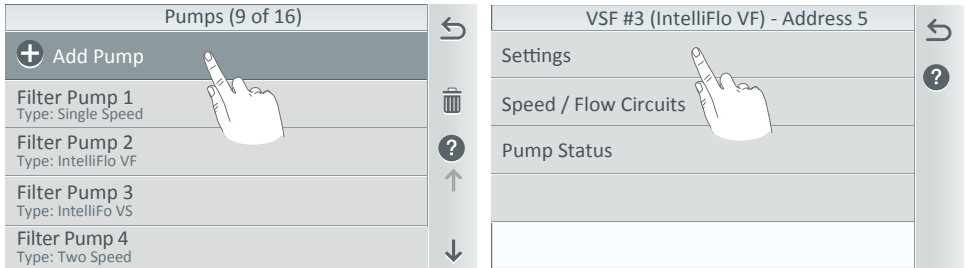
Pump Status	
GPM	Watts
<b>70</b>	<b>100</b>
1600 RPM	
<b>No Problems Detected</b> Pump appears to be running normally. Click here to view possible issues not being detected.	

**Pump Status:** Shows the current power usage in Watts, flow rate in gallons per minute (GPM) or revolutions per minute (RPM) while the pump is operating. Tap Return to return to the previous screen. Also see: Tap Status on the Home screen to display the current pump status and error condition.

## Pumps (IntelliFlo® VF)



**+ Add Pump:** To add an IntelliFlo VF pump, tap + Add Pump to access the pump type screen and select IntelliFlo VF.

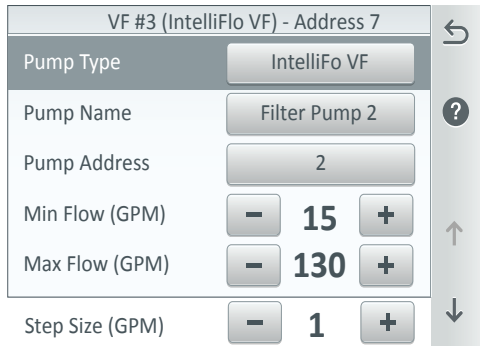


**IntelliFlo VF Settings:** Pump Type, Pump Name, Pump Address, Min. Flow (15 GPM), Max. Flow (130 GPM), and Step Size (1-10 GPM). For information about priming the pump, see page 70.

**Pump Type:** To change the pump type (function), tap Pump Type button to access the pump type screen. Select the pump for the list. Tap Check to save the new pump type and return to the previous screen.

**Pump Name:** Tap the Pump Name button and enter the name of the pump. Tap Check to save the name and return to the previous screen.

**Pump Address:** Assign the pump address from 1-16.



**Minimum Flow (GPM):** The pump's minimum flow rate can be set from 15-130. This is the minimum flow rate speed but still generating sufficient flow in the pool. The IntelliCenter® Control System will not run lower than 15 GPM. The lower you can establish this flow rate the better the energy savings.

**Maximum Flow (GPM):** The pump's maximum flow rate can be set from 15-130 GPM. This is generally the flow rate required for backwashing the pool filter. The pump will not allow a higher flow rate of 130 in order to prevent damage to the pool system.

**Step Size (GPM):** The pump flow rate step size can be set from 1-10 GPM.

## Pumps (IntelliFlo® VF)



Circuits (1-8)	
	Add Circuit
Pool	1000 RPM
Booster Pump	2500 RPM
WF Pump	1340 RPM

**Speed Circuits:** Assign the speeds to the circuits you wish to use. Tap Speed Circuits and tap Add Circuits to assign a new AUX circuit. To change the pump speed of a listed circuits, tap the AUX name to change the assigned RPM setting. Tap Return to save the setting and return to the previous screen.

Affiliated Circuit Settings	
Circuit	AUX3
Flow (GPM)	- 40 +

### Affiliated Circuit Settings:

**Circuit:** The assign circuit to control the pump speed.

**Flow (GPM):** Assign pump flow rate from 15 to 130 for the selected circuit.

Pump Status	
GPM	Watts
70	100
<b>No Problems Detected</b> Pump appears to be running normally. Click here to view possible issues not being detected.	

**Pump Status:** Shows the current power usage in Watts, and flow rate in gallons per minute (GPM) while the pump is operating. Tap Return to save the setting and return to the previous screen. Also see: Tap Status on the Home screen to display the current pump status and error condition.

## IntelliFlo® Pump Alarms and Warnings

**For complete descriptions of Pump Alerts, Warnings, Error Codes and Error messages, see the IntelliCenter Installation Guide (P/N 522989)**

### Alerts and Warnings

The IntelliFlo® Variable Speed and Flow Pump displays all alarms and warnings on the control panel display. When an alarm or warning condition exists, the corresponding light will be lit on the display.

**In the event of an alarm:** The alarm light will illuminate and all control panel buttons will be disabled until the alarm is cleared. Pressing the Reset button will clear the alarm once the fault condition has been resolved.

**In the event of a warning:** The warning light will illuminate, but the pump will continue to run. The speed, flow or pressure limit that is causing the warning must be adjusted in order to correct the warning.

### Power Out/OFF

The incoming supply voltage is less than required. The drive faults to protect itself from over current. The drive contains capacitors that keep it powered up long enough to save the current run parameters. If power is restored during this process, approximately 20 seconds, the drive will not restart until completed.

*Continue to next page.*

## IntelliFlo® Pump Alarms and Warnings (Continued)



### Priming the IntelliFlo pump:

**Note:** For more information about troubleshooting, refer to the following manuals: IntelliFlo VF (P/N 350075), IntelliFlo VSF (P/N 356652), and IntelliFlo VS (P/N 354604).

**Priming the Pump for the first time or after a service:** First release all pressure from filter, pump, and piping system. The pump will prime itself when the suction and discharge valves are opened if the water source is higher than pump. If this is not the case, unscrew and remove pump's lid cover, fill the basket and pump with water. Do not lubricate the lid cover o-ring. The o-ring contains a permanent internal lubricant.

1. Turn the pump lid clamp and lid in a counterclockwise direction until it stops and remove them.
2. Fill the pump strainer pot with water.
3. Reinstall the pump clamp and lid onto the strainer pot. The pump is now ready to prime.
4. Make sure all electrical connections are clean and tight.
5. Open the air release valve on the filter, and stand clear of the filter.
6. Switch the IntelliFlo pump on at the circuit breaker. Ensure that the green power light is on.
7. Press the Speed 1 button to select the pump speed of 750 RPM.
8. Press the Start button to start the pump. Use the Up/Down button to increase the speed as necessary to prime the pump.
9. When water comes out of the air release valve, close the valve. The system should now be circulating water back to the pool without air bubbles showing in either the hair and lint pot or at the pool return fittings.
10. Use the Up/Down button to adjust the operating speed as desired.

### Priming Failure

If the pump is not defined as primed within the "Max Priming Time" it will stop and generate a "Priming Alarm" for 10 minutes, then attempt to prime again. The "Max Priming Time" is set in the pump's priming menu. If the pump cannot prime within five attempts it will generate a permanent alarm that must be manually reset.

### Overheat

If the drive temperature gets above 54.4° C (130° F) the pump will slowly reduce speed until the over temperature condition clears.

### Thermal Mode

When active, the motor will run at the preset RPM until the drive internal temperature increases above the minimum. The pump's internal thermal protection is disabled when connected to an automation system. Thermal protection is provided by selecting Freeze Protection ON in the pump circuit option in the IntelliCenter® Control System menu (see page 62). To re-enable the internal thermal protection, the power to the drive must be cycled off then back on.

### Over Current

Indicates that the drive is overloaded or the motor has an electrical problem. The drive will restart 20 seconds after the over current condition clears.

### Over Voltage

Indicates excessive supply voltage or an external water source is causing the pump and motor to rotate thereby generating an excessive voltage on the drives internal DC buss. The drive will restart 20 seconds after the over voltage condition clears.

## IntelliFlo® Pump Alarms and Warnings (Continued)



### Internal Error

Indicates that the self-monitoring motor control software has encountered an error. Clear the alarm and restart the pump. If this alarm persists, contact Pentair Technical Service at **1-800-831-7133**.

### Speed Limit (Warning)

The pump has detected that it has met the maximum allowed speed set in the Min/Max menu. The pump will continue to run, but it will not achieve the desired speed. Pressure Limit (Warning). The pump has detected that it has met the maximum system pressure set in the Min/Max pump menu (and IntelliCenter menu, see page 62). The pump will continue to run, but it is not achieving the desired flow rate or speed because of the pressure limit. The feature is enabled by default while running a program at a constant flow rate, but must be enabled manually to monitor maximum pressure while running a constant speed program.

### Flow Limit (Warning)


The pump has detected that it has met the maximum flow rate set in the Min/Max menu. The pump will continue to run, but it is not achieving the desired speed because it is running at the maximum flow rate. The Maximum Flow can be set in the Max/Min menu. This feature must be enabled in the Min/Max menu to be active while running a speed program.

- **Freeze Protection:** When set to ON, the pump motor will run at a user defined speed. Note: The IntelliFlo pump's internal anti-freeze protection is disabled when connected to the automation control system. To re-enable the IntelliFlo pump's internal freeze protection, the power to the drive must be cycled off then back on. When active FREEZE PROTECT ACTIVE is displayed on the Home screen.
- **Blocked system:** Detects a blocked suction line. This alarm resets automatically after 30 seconds and the pump restarts.
- **System service soon:** Alerts the operator that the pump discharge pressure has reached the Clean Filter Pressure as setup in the Filter Menu. The filter status will be displayed as 100%. The green warning LED will be on until a backwash cycle is operated. The IntelliFlo pump will automatically reduce speed as necessary to not exceed the Clean Filter Pressure.

**Note:** The IntelliFlo VS pump alarm and warnings are indicated by flashing LEDs on the pump's control panel. For example, if a "Drive Temperature" warning occurs, the LED will blink two times, then Off, then blink two times. This sequence is repeated until the condition is cleared.

- **Warning condition:** If a warning condition occurs the pump will continue to run but at a reduced speed. The Green LED displays a sequence of blinks to indicate which alarm or warning has occurred.
- **Alarm condition:** If an alarm condition occurs the pump will stop running. The red LED flashes continuously to indicate the presence of an alarm. The alarm LEDs will reset when the condition clears.

## Heaters (Gas) Add a Heater

Heaters	
 Add Heater	
Gas Heater Type: Connected Heater	Heater 1 Assigned to Pool/Spa
Hybrid Type: Hybrid	Heater 2 Assigned to Pool
Solar Heater Type: Solar	Heater 3 Assigned to Pool/Spa



**Add Heater:** Tap Add Heater to add a new heater type. Up to three heaters can be assigned. **Note: Only one gas heater for each body of water. For shared equipment; one gas heater (pool/spa).**

Select New Heater
Gas
Solar
Heat Pump
UltraTemp
MasterTemp



**Select Add Heater:** Select: Gas, Solar, Heat Pump, UltraTemp, MasterTemp, Max-E-Therm and Hybrid (see page 76).

**Gas Heater Settings: Heater Type:** Displays the Heater Type selected.

**Heater Name:** Tap the heater name button to change the heater name. Enter the new name and tap Check to save the name and return to the previous screen.

**Affiliated Body:** Assign the heater to a body of water: Pool, Spa or Pool/Spa (shared equipment).

**Cool Down Delay (min):** The gas heater Cool Down Delay (min) can be set from 0 to 10 minutes (5 min. default). After the heater is turned off, this feature keeps the pump on (upto 10 mins) to circulate water through the heater to avoid corrosion.

Gas Heater	
Heater Type	Gas
Heater Name	Gas Heater
Affiliated Body	Pool/Spa
Cooldown Delay (min)	- 5 +



**Add Heaters:** IntelliCenter® Control System supports the following heater configurations: Gas Heater, Solar Heater, Heat Pump, UltraTemp, MasterTemp, Max-E-Therm, Hybrid, Gas Heater + Solar Heater (Solar Preferred), Gas Heater + Heat Pump (Solar Preferred), Gas Heater + UltraTemp/Hybrid (UltraTemp/Hybrid Preferred).

**HEATER OFF: Pool/Spa System without a Heat Source:** If the pool/spa system does not have a heat source installed, the Home screen and Pool and Spa screens will not display the Heating Set Point buttons. The Pool/Spa badge (Yellow, Blue, Green) displays the current water temperature.

Air Temp 65° F		10:10
78° Pool	85° Spa	
Schedule	Usage	Chemist


Pool
Pool
Pool Temp <b>77</b>
Heat Mode
Off

**HEATER CONNECTIONS:** Note: i5PS/i10D: Pool/Spa Heater Connections - It does not matter which body of water is connected to each heater connector. The heater on the main i5P board is for body 1 (pool or spa), and the heater on the i10D board is for body 2 (pool or spa).

**Heat Mode Off: No Heat Source Assigned.**



## Heaters (MasterTemp & Max-E-Therm)

Heaters	
 Add Heater	
Gas Heater Type: Connected Heater	Heater 1 Assigned to Pool/Spa
Hybrid Type: Hybrid	Heater 2 Assigned to Pool
Solar Heater Type: Solar	Heater 3 Assigned to Pool/Spa

**Add Heater:** Tap Add Heater. Select MasterTemp or Max-E-Therm to add a new heater type. Up to three heaters can be assigned. **Note: Only one gas heater for each body of water. For shared equipment; one gas heater (pool/spa).**

Select New Heater
Heat Pump
UltraTemp
MasterTemp
Max-E-Therm
Hybrid

### Connected MasterTemp or Max-E-Therm Heater Settings:

**Heater Type:** Displays the Heater Type selected.

**Heater Name:** Tap the heater name button to change the heater name. Enter the new name and tap Check to save the name and return to the previous screen.

**Affiliated Body:** Assign the heater to a body of water: Pool, Spa or Pool/Spa (shared equipment).

**Heater Address:** Select the heater address between 1-16.

**Cool Down Delay (min):** The gas heater Cool Down Delay (min) can be set from 0 to 10 minutes (5 min. default). After the heater is turned off, this feature keeps the pump on (upto 10 mins) to circulate water through the heater to avoid corrosion.

Connected Gas Heater	
Heater Type	Connected Gas
Heater Name	MasterTemp
Affiliated Body	Pool/Spa
Heater Address	2
Cooldown Delay (min)	- 5 +

### Alerts Notifications for Multiple Heaters Connections(MasterTemp & Max-E-Therm):

#### Connecting Multiple Heaters (RS-485 COM Port) (MasterTemp & Max-E-Therm):

MasterTemp or Max-E-Therm heaters can be wired to the IntelliCenter Control System via a RS-485 COM Port connection. Up to 16 heaters can be connected. The default address of a heater is 1. If additional heaters are connected, each heater must have its own address. The address range is 1 to 16. The address for each heater is set from the heater's front LCD panel menus.

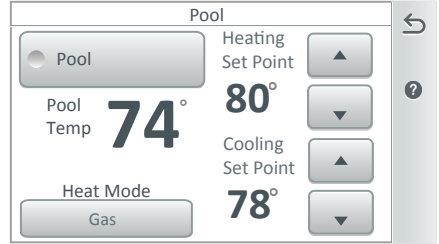
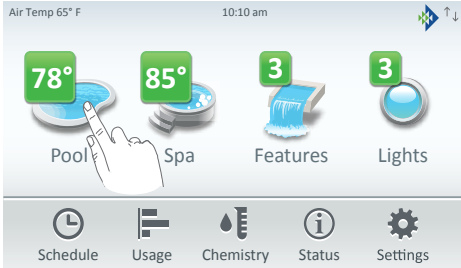
**When a heater is being controlled via the RS-485 COM Port:** The heater front panel buttons are inactive. Press a panel button to turn on the LCD display. "RS485 Control" is displayed. Heater Alarms/Errors are displayed on IntelliCenter's control panel(s) Status Home screen (see page 33). **For more information, see page 5.**

The heater's 3-wire interface Fireman's switch is used to power the heater On/Off. The 3-wire interface must be disabled. To disable the 3-wire interface, place a shunt across pins 1 and 2 of JMP1 on the heater main circuit board. Note: The heater main circuit board is factory shipped with a shunt across pins 1 and 2 of JMP1.

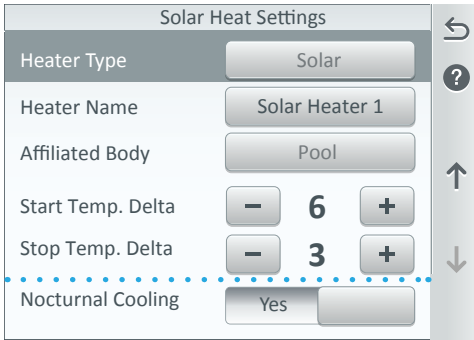
*Note: For more information about connecting multiple heaters via the RS-485 (3-wire) interface, see the IntelliCenter Installation Guide (P/N 522989), and the MasterTemp (P/N 472592) and Max-E-Therm (P/N 5794) Installation and User's Guide.*

## Solar (Nocturnal Heater Cool Down Delay)

For Solar and Heat Pumps: Use the Cooling Set Point temperature control buttons displayed on the Pool and/or Spa screen to adjust the nighttime temperature of the pool/spa water. *See page 74.*



## Heaters (Solar Heating)



**Solar Heater Settings:**  
**Heater Type:** Displays the Heater Type selected.

**Heater Name:** Tap the heater name button to change the heater name. Enter the new name and tap Check to save the name and return to the previous screen.

**Affiliated Body:** Assign the heater to a body of water: Pool, Spa or Pool/Spa.

**Start Temp. Delta:** The minimum temperature difference to start heating. The temperature range is adjustable from 3° - 9°. Factory default is 6.

**Stop Temp. Delta:** The temperature difference at which heating will stop. The temperature range is adjustable from 2° - 5°. Factory default is 3.

**Solar Nocturnal Cooling ON/OFF:** ON: Provides automatic nocturnal (nighttime) cooling during night time hours for pools that overheat in hot climates. When enabled, circulates pool water to the collector panels when the solar sensor temperature and the pool temperature is hotter than the high limit setting. This process cools the pool water over time. Circulation will stop when the solar sensor temperature is 3 degrees (default) less than the pool temperature or the pool temperature is cooler than the high limit setting. OFF: SOLAR nocturnal (nighttime) cooling disabled.

**Note: Valves A & B and Solar Heating:** For Single Body systems, Valve A is used for SOLAR if you choose the Solar Heater. For Dual Body systems, Valve B is used for SOLAR if you choose the Solar Heater.

## Heaters (Solar Heating)

**Solar Heating:** Effective solar heat depends on the solar and water temperature and the start and stop differentials. When solar is available, then the system will rotate the 3-Way Valve and turn on the solar booster pump if applicable or increase the RPM's if an IntelliFlo® Pump is present. This allows the water to flow to the solar collectors. If a pressure cleaner pump is installed, the cleaner pump will turn off for 10 minutes every time solar turns ON. The solar roof sensor must be 6° higher (based on Start/Stop Temp. Delta) than the water temperature. The pump must be ON for a few minutes for operation. When the roof sensor and the water temperature are within 3° of each other (based on Start/Stop Temp. Delta), solar heat will switch off. The solar temperature start and stop differential settings are factory at 6° and 3°. These differential settings are adjustable. Refer to your solar service professional for the optimum setting. Changing the differentials could result in the system not working properly.

**Heating:** Heating will start when the Start differential condition is met and the water temperature is below the target temp. When these conditions are satisfied heating is turned ON. Example: Water Temperature is 75°F; The target temperature is 82°F. When the roof solar collectors temperature exceeds the water temperature by 6° Start Temp Delta (81°F), the solar valve rotates. If a solar booster pump is required, this pump will turn on.

## Heaters (Heat Pump)

Heat Pump	
Heater Type	Heat Pump
Heater Name	Heat Pump
Affiliated Body	Pool/Spa



### Heat Pump Settings:

**Heater Type:** Displays the Heater Type selected.

**Heater Name:** Tap the heater name button to change the heater name. Enter the new name and tap Check to save the name and return to the previous screen.

**Affiliated Body:** Assign the heater to a body of water: Pool, Spa or Pool/Spa.

## Heaters (UltraTemp®)

UltraTemp Heater	
Heater Type	UltraTemp
Heater Name	UltraTemp
Affiliated Body	Pool/Spa
Heater Address	1
Cooling Enabled	Off



### UltraTemp Settings:

**Heater Type:** Displays the Heater Type selected.

**Heater Name:** Tap the heater name button to change the heater name. Enter the new name and tap Check to save the name and return to the previous screen.

**Affiliated Body:** Assign the heater to a body of water: Pool, Spa or Pool/Spa.

**Heater Address (1-16):** Assign the UltraTemp heat pump address.

**Cooling Enabled (UltraTemp only):** On/Off: **On:** Provides cooling for pools that overheat in hot climates. When enabled, circulates pool water through the exchanger and draws heat from the water and expels it through the fan.

**UltraTemp Heat and Cool Mode):** **Heat Mode Temp:** This is the set temperature when in Heat Mode. **Cool Mode Temp:** This is the set temperature when in Cool Mode.

## Heaters (Heat Pump & UltraTemp)



### Heaters (ETi Hybrid Heater)

Hybrid Heater	
Heater Type	Hybrid
Heater Name	Hybrid
Affiliated Body	Pool/Spa
Heater Address	1
Boost Temp	- 5 +
Eco-Time	- 1 +

#### Hybrid Heater Settings:

**Heater Type:** Displays the Heater Type selected (Hybrid).

**Heater Name (Hybrid):** Tap the heater name button to change the heater name.

**Affiliated Body:** Assign the heater to a body of water: Pool, Spa or Pool/Spa.

**Heater Address (1-16):** Assign the Hybrid heater address.

**Boost Temperature (From 5 to 10 degrees):** Only active in Hybrid Mode. Use this feature if the unit is unable to heat

incoming low temperature water to the active set point. When the difference between the actual incoming water temperature and the active set point exceeds a set amount, the gas heater will turn on to provide supplemental heat. The Boost Temp. setting is the difference between incoming water temperature and the active set point which will activate the gas heater. Both the Pool Set Point and Spa Set Point have an individual Boost Temperature setting.

**Eco-Time:** Only active in Hybrid Mode. Use this feature if the unit is unable to heat incoming water to the active set point within a specific period of time, then the gas heater will turn on to provide supplemental heat. Eco-Time is the time the heat pump will attempt to heat to the active set point before the gas heater activates to provide supplemental heat. Both the Pool Set Point and Spa Set Point have an individual Eco-Time setting.

Select Heat Mode for Pool
<input checked="" type="radio"/> MasterTemp
<input type="radio"/> Max-E-Therm
<input type="radio"/> Hybrid - Gas Only Mode
<input type="radio"/> Hybrid - Heat Pump Only Mode
<input type="radio"/> Hybrid - Hybrid Mode

**Heat Mode: Heat Pump Only:** Uses only the Heat Pump side during calls for heating.

**Hybrid - Gas Only Mode:** Use only the Gas Heater side during calls for heating.

**Hybrid - Hybrid Mode:** Uses Gas and/ or Heat Pump depending on conditions during calls for heating, and will automatically switch between the two.

**Hybrid - Dual Mode:** Heat Pump and Gas Heater will run in tandem during calls for

heating. Provides fastest possible heat ups.

## Installation [Valves]



**Valve Actuators Circuit Assignments:** The IntelliCenter® Control System can control up to four automatic valve actuators (for shared equipment). Six (6) more can be added with Valve Expansion Cards. Two of the valve outputs are dedicated to the pool/spa intake (INTAKE) and return (RETURN) valves. Valve A or Valve B actuators are for general purpose use (solar, water-feature, in-floor cleaner, etc.). *Note: For a Floor Cleaner to operate properly, the Floor Cleaner circuit must be assigned to Valve A (Shared Equipment) and to either Valve A or Valve B (Dual Equipment).*

**Note:** Valve A may not be used with any other circuit when Solar is selected as a heat source. Note: When using solar heat, note that for shared equipment pool and spa combination, Valve A is always used for solar. For dual body dual equipment, Valve A is for pool, and Valve B for spa. Installing the optional Valve Expansion Card provide an additional six (6) valve actuators (C, D, E, F G). See IntelliCenter Control System Models in Settings > Advanced System Configuration > Installation Setup > Body Configuration, see page 55.

**Also see Valve Delays:** For Valve delay and Heater Cool Down settings and Freeze Cycle Time, *see Settings > Advanced System Configuration > Delays on page 88.*

**For Pool and Spa Shared Equipment:** Return valve actuator (pool), Spa Return.

Valves	
Valve A	Standard
Valve B	Standard
Intake	Standard
Return	Standard
Valve A (XPC0)	Standard

Valve A Settings	
Valve Type	Standard
Valve Name	Valve A
Assigned Circuit	filter pump

Select Circuit	
<input type="radio"/> Spa	<input type="radio"/> AUX 1
<input type="radio"/> AUX 2	<input type="radio"/> AUX 3
<input type="radio"/> AUX 4	<input checked="" type="radio"/> Filter Pump
<input type="radio"/> AUX 5	<input type="radio"/> AUX 6

### Note: Valves A & B and Solar Heating:

For Single Body systems, Valve A is used for SOLAR if you choose SOLAR heating. For Dual Body systems, Valve B is used for SOLAR if you choose SOLAR HEATER.

**VALVE A Settings:** Standard (2-Way/3-Way). **Note:** For Single Body systems, Valve A is used for SOLAR if you choose SOLAR HEATER. Valve A is displayed if additional valve circuits are available [Depending on the Personality Card installed, *see page 111.*

**Valve Name:** Tap Valve A name to change the valve name.

**Assigned Circuit:** Assign the Pool circuit for VALVE A.

**VALVE B Settings:** Standard (2-Way/3-Way). **Note:** For Single Body systems, Valve B is used for SOLAR if you choose SOLAR HEATER. Valve B (1) is displayed if additional valve circuits are available [Depending on the Personality Card installed, *see page 111.*

**Valve Name:** Tap Valve B name to change the valve name.

**Assign Circuit:** Assign the Spa circuit for VALVE B.

## Installation [Valves]



### Valves: Intake and Return

Intake Settings	
Valve Type	Standard
Valve Name	Intake
Assigned Circuit	Rotates on Pool/Spa



#### Intake Settings:

**Valve Type:** Standard (2-Way/3-Way).

**Valve Name:** Intake (predefined function/name) cannot be changed.

**Assigned Circuit:** Assign to the intake line valve that rotates between the pool and spa to circulate water.



#### Return Settings:

Return Settings	
Valve Type	Standard
Valve Name	Return
Assigned Circuit	Rotates on Pool/Spa



**Valve Type:** Standard (2-Way/3-Way).

**Valve Name:** Return (predefined function/name) cannot be changed.

**Assigned Circuit:** Assign to the return line valve that rotates between the pool and spa to circulate water.



### Optional Expansion Valve A(XPC0) / Valve B (XPC0)

Valves	
Valve A	Standard
Valve B	Standard
Intake	Standard
Return	Standard
Valve A (XPC0)	Standard



**Additional Valve Circuits:** Optional Personality Card can provide additional valve circuits that will be displayed on the Valve screen as Valve A (XPC0) and Valve B (XPC0) depending on the system model. See page 111 for more about IntelliCenter® Control System models.



### Configuring Valve Actuators (Controlled by AUX or Feature Circuit)

The IntelliCenter® Control System can control two auxiliary valve actuators (A and B) for applications such as solar heating and water features. With the addition of the Valve Expansion Card, the system can accommodate up to six (6) additional actuators (C, D, E, F, G, H) for a total of eight (8) actuators.

Before configuring auxiliary valve actuators, first assign names to the AUX or FEATURE circuits. Auxiliary valve actuators can be controlled by any AUX circuit or Feature circuit. By using FEATURE circuits to control valve actuators, you can conserve your AUX circuits for high voltage relays for controlling pumps and lights. You can also use a FEATURE CIRCUITS to couple valve actuators with AUX circuits for specific applications.

## Chemistry [IntelliChlor® SCG and IntelliChem® Installation]

From the Chemistry screen you can configure one IntelliChlor SCGs and one IntelliChem Controller. *Also see: Home screen(\*): Tap Chemistry to access IntelliChlor and IntelliChem operation summary screens, page 8.*



Chemistry 1/8

+ Add Chemistry

IntelliChlor 1 Pool/Spa

Select Chemistry Device

IntelliChlor

IntelliChem

Select Assigned Body

Pool

IntelliChlor Overview

Settings

Chlorination Output Levels

Super Chlorination OFF

IntelliChlor Settings

Body Assignment Pool/Spa

Chlorination Output Settings

Pool Output (%) - 50 +

Spa Output (%) - 20 +

Super Chlorination

Time Remaining

- 24 hr 0 min +

Cancel Super Chlorination

IntelliChem Settings

Address 1

Body 1 Pool

Body 2 Spa

### Add IntelliChlor and/or IntelliChem:

Tap Chemistry on the Home screen. Tap Add Chemistry. Select one IntelliChlor SCG and address up to four (4) IntelliChem Controllers on the Select Chemistry Device screen.

**IntelliChlor SCG Settings:** For dual body systems, each device is assigned to pool/spa. For single body systems, select either Body 1 (pool), Body 2 (Spa).

**Chlorination Output Levels:** Set the Pool and Spa chlorine output levels. The system can only generate chlorine while the filter pump is operating. Set the percentage to produce chlorine. The Spa outputs 1/20 of the pool output when the Spa mode is switched on.

*Note: If using the Filter Pump Relay select Filter Pump Relay and Tap Next. Choose either the Pool or Spa Relay and can set the chlorination output levels and turn Super Chlorination On/Off. Tap the Back arrow to return to the previous screen and Tap Next.*

### Super Chlorination (1 to 96 hrs.) (ON):

Tap the **Start Super Chlorination** button to temporarily override the current chlorination output levels with super chlorination (100% output for the selected time, typically 24 hours).

### IntelliChem Settings:

**Address (1-4):** Select an address from 1-4 for the IntelliChem Controller. Up to four controllers can be connected to the IntelliCenter Control System.

**Body Assignment:** For dual body systems, the device is assigned to pool/spa. For single body systems, select either Body 1 (pool), Body 2 (Spa).

**(\*) Show/Hide IntelliChem Badge on Home Screen:** Go to Settings > General > Chemistry Readings Badge to show pH and ORP readings (set to ON or OFF).

## Installation (Pool and Spa Cover)



From the Installation Setup screen, Tap Pool and Spa Cover to display the Pool and Spa Cover Select screen. The system supports two pool or spa covers (Pool/Spa Cover 1 or Pool/Spa Cover 2) one cover for each body of water. From the Pool/Spa Cover settings you select which circuits to switch OFF and ON when the pool or spa cover is closed or open.

**Pool or Spa Cover Position:** "OPEN" and "COVERED" is displayed on the Home screen to indicate the current position of the cover. The cover connection is via an RS-485 COM Port on the IntelliCenter® Control System Expansion Card.

Pool Cover 1 Settings	
Cover Enabled	<input type="button" value="Disabled"/>
Cover State Normally	<input type="button" value="Open"/>
Affected Circuits	<input type="button" value="Configure..."/>
IntelliChlor Active	<input type="button" value="OFF"/>
IntelliChlor Output	<input type="button" value="-"/> <b>20</b> <input type="button" value="+"/> <input type="button" value="X"/>

Select Pool Cover	
Cover 1	<input type="button" value="X"/>
Cover 2	<input type="button" value="X"/>

### Pool Cover Settings:

**Cover Enabled:** Select either Enabled or Disabled.

**Cover State Normally:** Select either Closed or Open for the state that the pool or spa cover is usually in.

**Affected Circuits:** Select the circuits that you want to switch OFF/ON when the pool or spa cover is closed or open. Tap Check to save and return to the Settings screen.

**IntelliChlor Active (0-40):** Select ON to switch the IntelliChlor SCG circuit OFF when the pool or spa cover is closed.

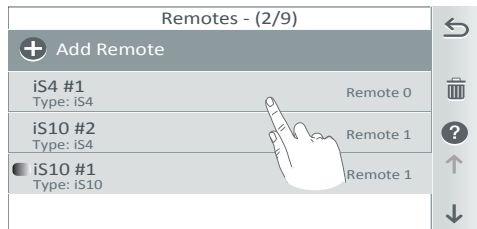
**IntelliChlor Output:** While the pool or spa cover is closed, select the IntelliChlor SCG chlorine output from 0 to 50 %.



## iS4 Remote [Advanced System Configuration]



**iS4 Spa-Side Remote:** To configure an iS4 remote, tap + Add Remote and choose iS4 from the Select New Remote screen.



**iS4 Settings:** From the iS4 Overview screen. Tap Settings to display iS4 setting options.

**Remote Type:** The Remote Type is assigned as iS4.

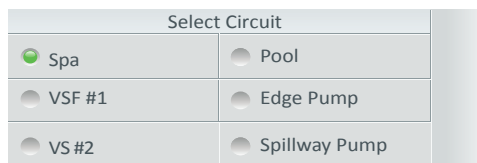
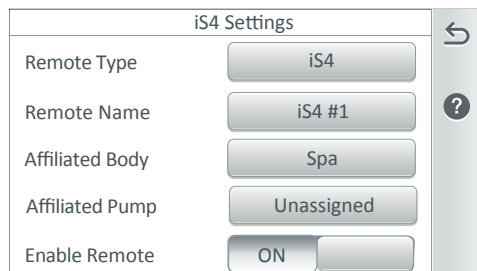
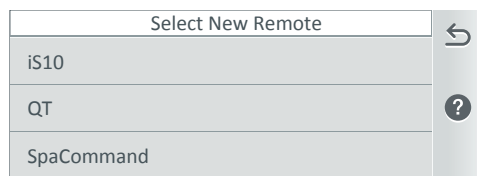
**Remote Name:** To change the name, tap the Remote Name button. Enter the new name and tap Check to save.

**Affiliated Body:** Tap the Affiliated Body of water button. Select Spa (or Pool). Tap Return to save.

**Affiliated Pump:** Tap the Affiliated Pump circuit button (Select Pump (iS4 screen)). Select the pump circuit that is assigned to the iS4 remote. Tap Check to save. *See Pump on page 62 to assign pump circuits.*

**Enable Remote:** Tap the Enable Remote ON/OFF button to turn the remote ON or OFF.

**Button Assignments (1-4):** Tap Button 1, then tap the *Unassigned* button and choose a circuit function for the selected button. Repeat this step for buttons 2-4. The available AUX circuits displayed are assigned in the Circuits option screen, *see page 56 (AUX Circuits and Feature Circuits, see, Settings > Advanced System Configuration > Installation Setup > Circuits).*



**Delete Remote:** From Remotes screen tap the Trash Can icon, select the remotes to delete and tap Check. Tap Yes to delete the selected remotes.



*Note. The iS4 remote (P/N 521885) requires a wired RS-485 connection to a COM port on main circuit board in the load center.*

## QuickTouch (QT) Remote [Advanced System Configuration]



**QuickTouch Spa-Side Remote:** To configure a QuickTouch II remote, tap + **Add Remote** and choose **QT** from the Select New Remote screen.

Select New Remote
iS10
QT
SpaCommand



**QuickTouch Settings:** From the QT Overview screen. Tap Settings to display QT settings options.



**Remote Type:** The Remote Type is assigned as QT.

**Remote Name:** To change the name, tap the Remote Name button. Enter the new name and tap Check to save.

**Affiliated Body:** Tap the Affiliated Body of water button. Select Spa (or Pool). Tap Return to save.

**Affiliated Pump:** Tap the Affiliated Pump circuit button. Select the pump circuit that is assigned to the QT remote. Tap Check to save. *See Pump on page 62 to assign pump circuits.*

QT Overview
Settings
Button Assignment



QuickTouch Settings	
Remote Type	QT
Remote Name	QT4 #1
Affiliated Body	Spa
Affiliated Pump	Unassigned
Enable Remote	ON <input type="checkbox"/>



**Enable Remote:** Tap the Enable Remote ON/OFF button to turn the remote ON or OFF.

**Button Assignments (1-4):** Tap Button 1, then tap the *Unassigned* button and choose a circuit function for the selected button. Repeat this step for buttons 2-4. The available AUX circuits displayed are assigned in the Circuits option screen, *see page 56 (AUX Circuits and Feature Circuits, see, Settings > Advanced System Configuration > Installation Setup > Circuits).*

QuickTouch Button Assignment	
	Spa



**Delete Remote:** From Remotes screen tap the Trash Can icon, select the remotes to delete and tap Check. Tap **Yes** to delete the selected remotes.

## iS10 Remote [Advanced System Configuration]



**iS10 Spa-Side Remote:** To configure a iS10 remote, tap + **Add Remote** and choose **iS10** from the Select New Remote screen.

iS10 Overview	
Settings	←
Button Assignment	?

iS10 Settings	
Remote Type	iS10
Remote Name	iS10 #1
Enable Remote	ON
Remote Channel	2
Affiliated Pump	Unassigned

Select Remote Channel (iS10)	
<input type="radio"/> 1	<input checked="" type="radio"/> 2
<input type="radio"/> 3	<input type="radio"/> 4

iS10 Button Assignment	
<div style="display: flex; justify-content: space-around;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> <span>5</span> </div> <div style="text-align: center; margin: 5px 0;">Spa</div> <div style="display: flex; justify-content: space-between; margin: 5px 0;"> <span>Address Mode</span> <input checked="" type="checkbox"/> ON         </div> <div style="display: flex; justify-content: space-around;"> <span>6</span> <span>7</span> <span>8</span> <span>9</span> <span>10</span> </div>	←
	?

**Delete Remote:** From Remotes screen tap the Trash Can icon, select the remotes to delete and tap Check. Tap **Yes** to delete the selected remotes.

*Note: The iS10 remote requires a wired RS-485 connection to a COM port on main circuit board in the load center.*

**iS10 Settings:** From the iS10 Overview screen. Tap Settings to display iS10 settings options.

**Remote Type:** The Remote Type is assigned as iS10.

**Remote Name:** To change the name, tap the Remote Name button. Enter the new name and tap Check to save.

**Enable Remote:** Tap the Enable Remote ON/OFF button to turn the remote ON or OFF.

**Remote Channel:** Tap the Remote Channel number and select a channel form 1-4. Tap this button to assign a communication address (1, 2, 3 or 4). The assigned channel is used to communicate to multiple iS10 remotes to mirror each other or to operate individually with different functions.

**Affiliated Pump:** Tap the Affiliated Pump circuit button. Select the pump circuit that is assigned to the iS10 remote. Tap Check to save. *See Pump on page 62 to assign pump circuits.*

**Body:** The remote is assigned to Spa. To reassign to a different body of water go to Advanced System Configuration > Installation Setup > Body Configuration, see page 53.

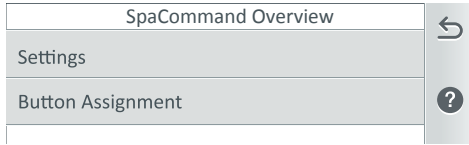
**Button Assignments (1 -10):** Tap Button 1, then tap the *Unassigned* button and choose a circuit function for the selected button. Repeat this step for buttons 2-10. The available AUX circuits displayed are assigned in the Circuits option screen, *see page 56 (AUX Circuits and Feature Circuits, see, Settings > Advanced System Configuration > Installation Setup > Circuits).*

**Address Mode ON/OFF:** Tap this button enable or disable the assigned Remote Channel (1-4).

## SpaCommand Remote [Advanced System Configuration]



**SpaCommand Spa-Side Remote:** To configure a SpaCommand remote, tap **+ Add Remote** and choose SpaCommand from the Select New Remote screen.



**SpaCommand Settings:** From the SpaCommand Overview screen. Tap Settings to display SpaCommand setting options.

**Remote Type:** The Remote Type is assigned as SpaCommand.

**Remote Name:** To change the name, tap the Remote Name button. Enter the new name and tap Check to save.

**Enable Remote:** Tap the Enable Remote ON/OFF button to turn the remote ON or OFF.

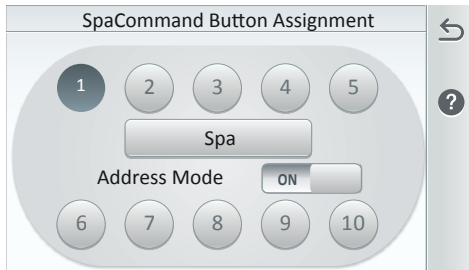
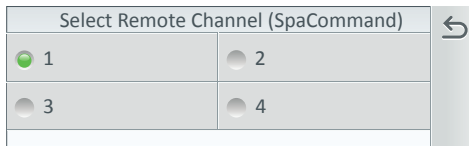
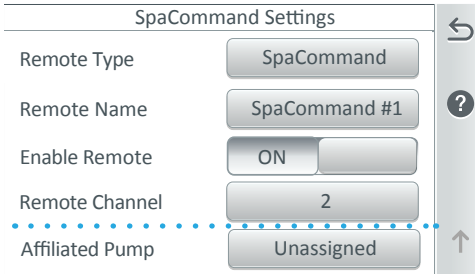
**Remote Channel:** Tap the Remote Channel number and select a channel form 1-4. Tap this button to assign a communication address (1, 2, 3 or 4). The assigned channel is used to communicate to multiple SpaCommand to mirror each other or to operate individually with different functions.

**Affiliated Pump:** Tap the Affiliated Pump circuit button. Select the pump circuit that is assigned to the SpaCommand remote. Tap Check to save. *See Pump on page 62 to assign pump circuits.*

**Body:** The remote is assigned to Spa. To reassign to a different body of water go to Advanced System Configuration > Installation Setup > Body Configuration, see page 53.

**Button Assignments (1 -10):** Tap Button 1, then tap the *Unassigned* button and choose a circuit function for the selected button. Repeat this step for buttons 2-10. The available AUX circuits displayed are assigned in the Circuits option screen, *see page 56 [AUX Circuits and Feature Circuits, see, Settings > Advanced System Configuration > Installation Setup > Circuits].*

**Address Mode ON/OFF:** Tap this button enable or disable the assigned Remote Channel (1-4).



**Delete Remote:** From Remotes screen tap the Trash Can icon, select the remotes to delete and tap Check. Tap **Yes** to delete the selected remotes.

*Note: The SpaCommand remote requires a wired RS-485 connection to a COM port on main circuit board in the load center.*

## Network and WiFi Setup [Advanced System Configuration]



*Note: Network and WiFi Setup information shown on page 85 and 86 is not required when using the Wireless 900MHz High Power Wireless Link Kit (P/N 523434). Please refer to the provided installation instructions (P/N 523445) when installing the 900 MHz Wireless antenna.*

From the Network and WiFi Setup screen you can set up Ethernet settings using DHCP (default on) or a static IP Address to connect to your network. The IntelliCenter® Control System Bridge Wireless Antenna provides a wireless 900 MHz connection to your home wireless router using an Ethernet (LAN Cat5) cable connected to the main circuit board on the Outdoor Control Panel.

*Note: See page 47 for Pentair User Portal > Enable Web & Mobile Interface (ON) to enable the PC Web App and Mobile Interfaces to allow local network and Internet communications.*

**Connect Ethernet:** Displays the current IP Address.

**Connect Wireless Network:** Discover nearby wireless networks. **Important: No spaces can be in the SSID network name. IntelliCenter will not be able to join an SSID network that has a space in its name.**

**Adjust Wireless Transmit Power:**

**Auto (Default).** Choose the wireless transmit power from 1 to 26 dBm). Use a higher dBm value to transmit the wireless signal over a longer distance. Tap the Checkmark. Once the 900 MHz antenna has rebooted it will transmit using increased the power.

**Internet Connection Test:** Test the Internet connection after the wireless home wireless connection has been setup. If connected to the Internet, the average response time is displayed.

**Configure Ethernet Settings (DHCP or static IP Address).**

**Use DHCP (ON Default):** The IP address is obtained automatically and is displayed.

**OFF:** IP address is entered by the user.

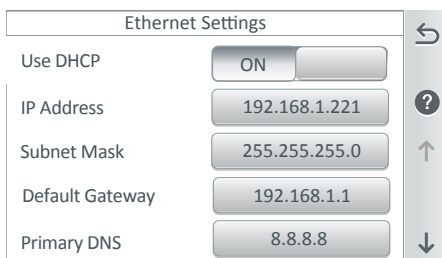
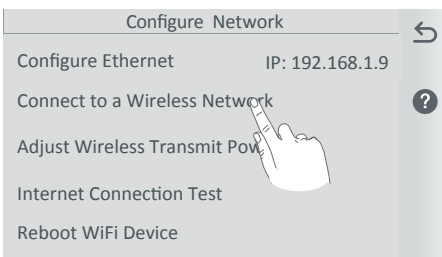
**IP address:** Your IntelliCenter IP Address (example; 192.168.1.9),

**Subnet Mask:** 255.255.255.0

**Default Gateway:** The Default Gateway is obtained automatically (DHCP) or entered by the user (Static).

**Primary DNS:** Populated (DNS). Server should be provided by your ISP.

**Secondary DNS:** Populated (DNS). Only one DNS server should be configured as primary for a zone, but you can have any number of secondary servers for redundancy. Both primary and secondary servers for a zone serve exactly the same data to clients. Because of this you could easily simulate a secondary server on a single computer with two IP addresses.



## Network and WiFi Setup [Advanced System Configuration]



Configure Network	
Configure Ethernet	IP: 192.168.1.9
Connect to a Wireless Network	?
Adjust Wireless Transmit Power	
Internet Connection Test	
Reboot WiFi Device	

**Connect Wireless Network:** Tap the Configure Wireless Network button to display the available wireless within range of the IntelliCenter® Control System wireless antenna.

**Available Networks:** Displays the available wireless networks within range of the IntelliCenter Control System wireless antenna. To connect to a wireless network, tap the name of the wireless network, the keyboard is displayed to enter a password or leave it blank. The previous screen displays the System IP.

Available Networks	
SISUKWifi WPA2-PSK	↑
NYSAWifi WPA2-PSK	↑
NTSAUKWifi WPA2-PSK	↑
StarBucks WPA2 Personal	↑
WifiMacD WPA2-PSK	↓

### Remote Access Connection Instructions

1. Tap **Connect to a Wireless Network** and wait for your home network name (SSID) to be displayed. This can take up to a minute or more to complete.
2. Select your home network and enter the password. **Important: No spaces can be in the SSID network name. IntelliCenter will not be able to join an SSID network that has a space in its name**
3. Once the antenna has rebooted, from the Configure Network, tap **Internet Connection Test** to verify the Internet connection.
4. When the Internet connection test passes, press and hold the Return arrow to return to the Home screen.
5. From the Home screen, tap **Settings > Pentair User Portal**. See page 47.
6. Tap **Enable Web & Mobile Interface**.

### WiFi Antenna Location

**Check the Signal at the Equipment Pad:** Use a mobile device or laptop to check your home network signal is available in the location of the equipment pad. If your home network name (SSID) displays in the list with a good signal strength, then mount the antenna at that location. If the signal strength is low, find an area that has a stronger signal, or install a WiFi Range Extender.

**Installing a WiFi Range Extender:** If the signal strength from the home network is too low due to the long distance to the IntelliCenter WiFi antenna, install a WiFi Range Extender and verify the connection to the home network SSID. Once the antenna with extender is installed in the optimum location, you are ready to configure the IntelliCenter Control System for remote access.

## IntelliCenter Wireless Remote Setup [Advanced System Configuration]



The IntelliCenter® Control System Wireless Remote requires optional Kit P/N 522036. This kit includes a Wireless Transceiver with antenna which connects to an RS-485 COM port on the Outdoor Control Panel circuit board located in the load center. Note: IntelliCenter Control System settings made on the Outdoor and Indoor Control Panels and the Wireless Remote are synchronized to have the same system settings on each control panel. See Wireless Connections Diagram on page 110.

IntelliCenter Wireless Remote Setup		Select Wireless Channel	
Address	<input type="text" value="12"/>	<input checked="" type="radio"/> 12	<input type="radio"/> 13
Panel #	<input type="text" value="1"/>	<input type="radio"/> 14	<input type="radio"/> 15
<input type="button" value="Update FW"/>		<input type="radio"/> 16	<input type="radio"/> 17
FW Update Mode: Off		<input type="radio"/> 18	<input type="radio"/> 19
FW Update State: N/A		<input type="radio"/> 20	<input type="radio"/> 21
FW Updata Status: N/A			
Radio Firmware Version: 0.00			

**Address:** Display the current wireless channel being used. **For most operations address 15 is the default address.** If you should need to change the address, tap the Address button to access the Select Wireless Channel screen and select a different channel from 12 through 25. The unique wireless address communicates to the wireless transceiver located at the IntelliCenter Control System load center.

**Panel #:** Tap this button to select which Wireless Panel to transmit from. Select either Wireless Panel #1 or Wireless Panel #2.

**Update FW:** Tap Update FW to update the firmware. Abort FW Update to abort the update.

**Radio Firmware Mode:** Displays the current firmware version of the wireless remote.

**Note:** The Wireless Remote signal strength and battery icon are displayed on the Home screen.

## Delays [Advanced System Configuration]

### Delay Settings

#### Valve Delay ON or OFF (Pool/Spa):

**ON:** Pool/Spa pump is off (1 minute) during the delay for pool/spa valve rotation.

**OFF:** No valve delay for Pool/Spa rotation.

#### Heater Cool Down Delay ON or OFF (Cancel Delay):

Some heaters require a cool-down cycle before being turned off. This can be accomplished with a setup procedure in the IntelliCenter® Control System which runs the filter pump an additional five (5) minutes to dissipate residual heat built up inside the heater combustion chamber. The delay feature is mainly for use by service technicians to shut the filter pump off immediately, and know the heater has not been running. **IMPORTANT: Heaters manufactured by Pentair Water Pool and Spa do not require this cool-down period and do not need the delay to be set up.**

**ON:** Activate the pump during a heater cool down.

**Pump on during heater cool-down:** Select this option if you have a heater or other equipment that requires that the filter pump stay on for ten minutes after the equipment goes off.

**OFF:** Heater cool down delay cancel: Shuts OFF the filter pump immediately.

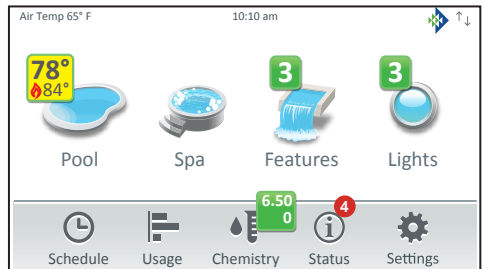
**Freeze Cycle Time (min):** Set the freeze protection time from 5 to 60 minutes to run the pump during freezing temperatures. Default time is 5 minutes. When active, "FREEZE PROTECT ACTIVE" is displayed on the Home screen.

**Spa Freeze Override Time (min):** Set the Spa pump freeze override time from 0 to 240 (mins. - 4 hours). This feature overrides the spa pump circuit that has freeze protection active. This allows you run the pump and heat the spa during freezing temperatures. For more information about using the spa during freeze conditions, see page 12.

**Override Delays:** Tap this button to override (cancel) any system delays currently in progress. A yellow badge displayed on the Home screen indicates a Valve delay is in progress.

**Delay Badge (Yellow):** A Yellow badge displayed on the Home screen Pool/Spa icon indicates a Valve rotation (delay) is in progress.

Delay Settings	
Valve Delay	<input type="checkbox"/> OFF
Heater Cool Down	<input type="checkbox"/> OFF
Frz Cycle Time (min)	- 15 +
Spa Frz Override (min)	- 30 +
Override Delays	Cancel





## System [Advanced System Configuration]

**System:** Displays the system firmware version: Version 1.010. Tap System Information to display MAC Address, Serial Number, Manufacturer Date, Firmware Version, IP Address and Release Notes.

**Release Note:** Information about the current system firmware release.

System	
System Information	Version: 1.0
Detected Hardware	
System Diagnostic Information	
Firmware Update	
Factory Diagnostics	

Detected Hardware	
OCP 0	Panel Type: OCP Personality: iSPS
OCP 0	Module: 1 not Detected
OCP 0	Module: 2 not Detected
OCP 0	Module: 3 not Detected

System Diagnostics	
Run Time:	2888 seconds
ACK (Pumps)	8/9
ACK (iChlor)	8/9
ACK (iChem)	8/9
ACK (UTemp)	8/9
ACK (others)	8/9
Slot Time	0
System Time:	Sat Nov 11 00:51:06 2017
Days Offset:	0 days
Minutes Offset:	0 minutes
Frz Status:	1

Firmware Update	
Current Firmware: v.1.0	
Use this option to update the current firmware to a newer or earlier version.	
<input type="button" value="Check for Update"/>	
<input type="button" value="Update from USB"/>	
<input type="button" value="Update from Panel"/>	

### Over-The-Air (OTA) Software Updates (From software version 1.047)

See page 107 for detail about automatic IntelliCenter Control System software updates.

System Information	
MAC Address:	00-16-76-7D-00-C3
Serial Number:	2212L-23323
Manufacturer Date:	4/3/2018
Firmware Version:	v1.010
IP Address:	192.126.1.1
OS Release:	3.14.79-te-armv71-j4
IP Address:	#9 Tue April 3 14:57:13 PDT 2018
<input type="button" value="Release Notes"/>	

**Detected Hardware:** Displays the IntelliCenter® Control System Panel Type OCP and Personality Card installed): Panel type, and model type (installed Personality Card(s), optional modules). Tap Detected Hardware, then OCP 0 information bar to display installed hardware information.

**System Diagnostic Information:** Displays the IntelliCenter Control System diagnostic information.

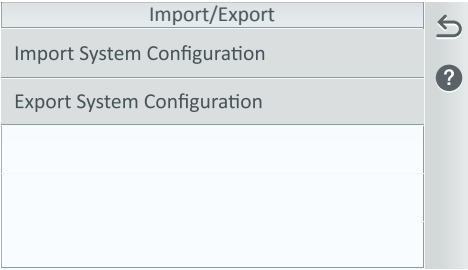
**Check for Update:** Tap this button to check for the latest IntelliCenter® Control System firmware version. Follow the screen prompts.

**Update from USB:** Tap this button to display the **Select Firmware File for Update** screen. Using the Up/Down arrows, locate the Update file (.pfw). Tap the file name to begin the update.

**Update from Panel:** Tap this button to update the update the current firmware to a newer or earlier version from a USB device installed in the Outdoor Control Panel, Indoor Control Panel, Wireless Remote. Follow the screen prompts.

## Import/Export [Advanced System Configuration]

**Import Export System Setup Configuration:** Use this feature to import or export a system configuration.



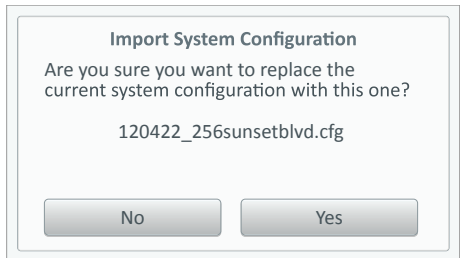
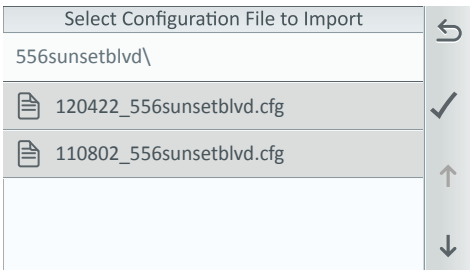
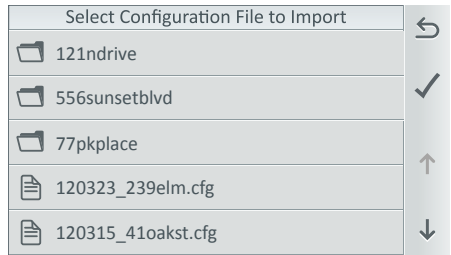
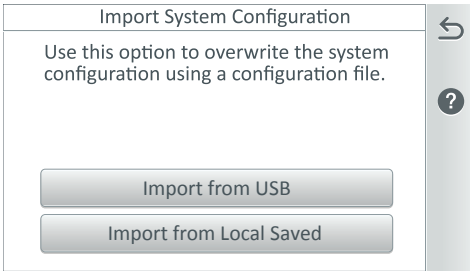
To access the Import/Export screen, tap Settings > Advanced System Configuration > Import/Export.

*Note: Once a USB device is detected, a USB icon is displayed on the upper right corner of the screen.*

**Import System Configuration:** Import from USB, or Import from Local Saved. This option will overwrite the system configuration using a configuration file. Navigate to the appropriate folder and select the Configuration file (.cfg) to import.

**Import for USB:** Insert a USB device into the USB Port on the front of the IntelliCenter® Control System Outdoor Control Panel or the Wireless Remote. Tap **Import from USB** and navigate to the system configuration file (.cfg). Follow the on screen instructions to import the system configuration files.

**Import to Local:** Tap **Import from Local** and follow the on screen instruction



## Import/Export [Advanced System Configuration]

**Export System Configuration:** Export from USB or local. Use this feature to export the system configuration file to a USB device. Select a location for the Configuration file (.cfg) and follow the screen prompts.

Export System Configuration	Select Location for Export
<p>Use this option to export the current system configuration to a USB device.</p> <p><b>Export to USB</b></p> <p><b>Save Locally</b></p> <p><b>Export Local Configuration to USB</b></p>	<p>Root</p> <p>121ndrive</p> <p>556sunsetblvd</p> <p>77pkplace</p> <p>996nlsd</p>

Select Configuration file to Export	Select Configuration file to Export
<p>121ndrive</p> <p>556sunsetblvd</p> <p>77pkplace</p> <p>120323_239elm.cfg</p> <p>120315_41oakst.cfg</p>	<p>556sunsetblvd\  120422_556sunsetblvd.cfg</p> <p>110802_556sunsetblvd.cfg</p>

**Import System Configuration**

Are you sure you want to replace the current system configuration with this one?

120422\_256sunsetblvd.cfg

## Restore Factory Defaults [Advanced System Configuration]

**Restore Factory Defaults:** Use this feature to overwrite the IntelliCenter® Control System configuration with the default factory configuration settings.

Tap Settings > Advanced System Configuration > Restore Factory Defaults.

Restore Factory Defaults / Erase History Data

Restore Factory Default Settings: Use this option to overwrite the existing system settings with the default factory settings.

Erase Historical data: Use this option to erase all existing historical data.



Tap the Restore Factory Defaults button to display the next message screen.

**Restore Factory Default Settings:** Tap this button to display the next message screen.

**YES:** Proceed to overwrite the current system configuration with the factory default settings. *Note: ALL current settings will be lost.*

**NO:** Tap No to exit this screen and return to the previous screen.

The Home screen is displayed after factory defaults are restored.

**Erase Historical Data:**

Tap this button to display the next message screen.

**YES:** Proceed to erase all historical data.

**NO:** Tap No to exit this screen and return to the previous screen.

**Restore Factory Default Settings**

All current system settings will be erased and factory system default settings will be restored.

Are you sure you want to erase the existing system settings and restore factory default settings?

**Erase Historical Data**

All existing historical data will be permanently erased.

Are you sure you want to erase all historical data?

**Restore Factory Default Settings**

Using this option will only affect this Subpanel Backlight, Times, and Theme settings. all other settings will be automatically synced from the Outdoor Control Panel.

**Expansion Panel: Restore Factory Default Settings:**

Tap this button to display the next message screen.

**YES:** Proceed to overwrite the current system configuration with the factory default settings. *Note: Only Backlight, Times and Theme settings will be erased from this panel. All other settings will be automatically synced to the Outdoor Control Panel.*

**NO:** Tap No to exit this screen and return to the previous screen.

## Setup Wizard [Advanced System Configuration]

**About the Setup Wizard:** The IntelliCenter® Control System Setup Wizard provides step-by-step screens to assist in setting up the pool/spa equipment. To complete the Setup Wizard can take about 10 minutes. If you are unsure how to configure a setting, skip that setting or tap and hold the Help button to display the MAIN MENU and select another item and continue with the setup. You can always skip a configuration and go back to the Wizard Setup later to change or edit a configuration setting. After the successful completion of the Configuration Wizard, you can edit any individual option and save the final configuration or exit without saving.

**Internet Connection and adding a new account for [www.intellicenter.com](http://www.intellicenter.com):** For the initial system setup, after you have set your zip code and location, the next screen to display is the **Pentair User Portal** screen. From there you can setup either a Wireless or Ethernet connection to connect to the Internet and add a new account or login using an existing account, which includes setting up a password, pool system's owner's name, address and contact information. This account allows access to [www.intellicenter.com](http://www.intellicenter.com) for remote access to the pool system via a smartphone or PC. **For more information about the Pentair User Portal screen, see page 85.**

### Setup Wizard Screen Navigation:

*Note: While in the Configuration Wizard, if a power outage occurs or the screen times out, the system will display the Home Screen. Any changes made in the Wizard up to that occurrence will be saved.*

1

What is your Zip code / Location	
Zip Code	Brooklyn, NY
11220	United States
Latitude	
Y Coordinate	40.65°
Longitude	
Y Coordinate	-73.94°
Time Zone	
Eastern Time (US & Canada)	UTC/GMT -5
Help/Menu	Exit Wizard
Back/Home	Next/Summary

2 3 4 5

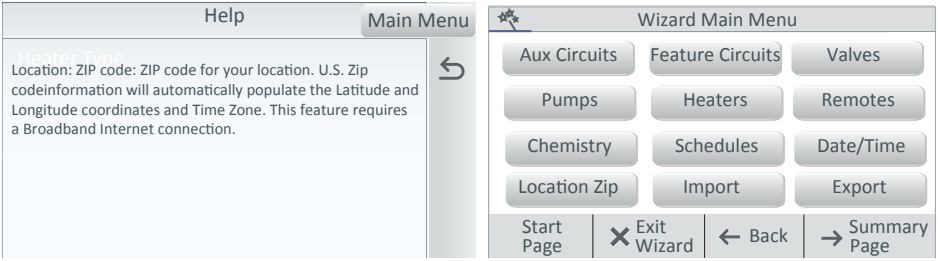
**1 Progress Bar Indicator:** The Blue Configuration Wizard progress bar indicates how many options have been completed.

**2 Help/Menu:** Help: Tap this button to display brief informative information for the current screen. Menu: Tap hold and release to display the Wizard Setup Main Menu items. From this screen you can select which item to configure during the Wizard setup.

*Continue to next page.*

## Setup Wizard [Advanced System Configuration]

### Setup Wizard Screen Navigation



**Help Screen/Main Menu Button:** From any of the Wizard Setup screens, tap Help to display the help text. Tap the Main Menu button to display the Wizard Main Menu items.

**Main Menu:** Tap the Main Menu button on the Help text screen to display the Main Menu items. Also, tap and hold and release the Help/Main Menu button on any of the Wizard Setup screens to display the Main Menu items.

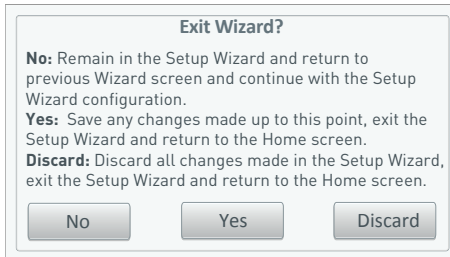
**Start Page:** Return to the first Wizard "Welcome" screen.

**Exit Wizard:** Display the Exit Wizard screen options (see description below).

**Back:** Return to the previous screen.

**Summary Page:** Go to the Summary screen.

- 3 **Exit Wizard:** Tap the Exit Wizard button while to display the following Exit Wizard dialog screen:



**No:** Remain in the Setup Wizard and return to previous Wizard screen and continue with the Setup Wizard configuration.

**Yes:** Save any changes made up to this point, exit the Setup Wizard and return to the Advanced System.

**Discard:** Discard all changes made in the Setup Wizard, exit the Setup Wizard and return to the Home screen.

- 4 **Back/Home:** Tap to return to the previous screen. Tap and hold and release to return to the Wizard Setup first "Welcome" screen.

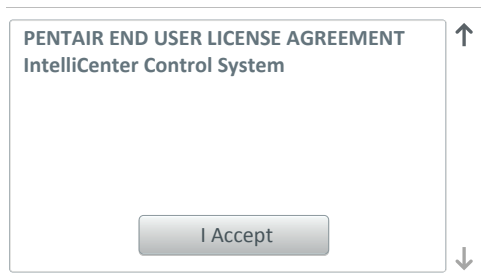
- 5 **Next/Summary:** Tap this button to proceed to the next Wizard Setup screen or item setting. Tap and hold and release to display the Summary screen (last Wizard Setup screen). Example: Before each Wizard configuration screen a YES/NO option screen is displayed. Tap YES then NEXT to enter the item configuration screen. Tap NO then NEXT to continue to the next option.

## Setup Wizard [Advanced System Configuration] Outdoor control panel only

### Initial System Power Up

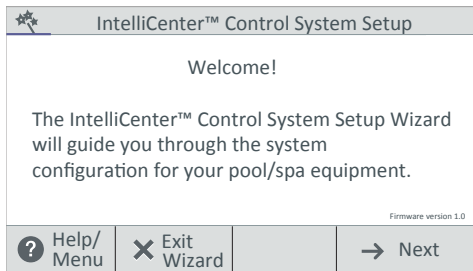
**First Time Setup:** After all required pool/spa equipment has been connected to the IntelliCenter Control System, apply power to the system at the main panel circuit breaker. Upon the initial system power up, the outdoor LCD control panel will display the PENTAIR END USER LICENSE AGREEMENT. Please read this agreement. To continue, tap the Down arrow on the right side of the screen to scroll down to the end of the agreement and tap **I Accept** to accept the agreement. The Home screen is then displayed.

**Note:** The Pentair End User License Agreement is displayed only one time after the initial system power up.



**Note:** After you tap **I AGREE** on the Pentair End User License Agreement the IntelliCenter® Control System Wizard dialog is displayed.

**Setup Wizard (First Time Setup):** To start the Setup Wizard for the first time, from the Home screen, tap **Settings > Advanced System Configuration > Wizard**. The following screen is displayed.:



### IntelliCenter Control System Setup Wizard:

The first Setup Wizard configuration screen, Displays the current system firmware version.

**Help/Menu:** Tap to display the Help text. Tap hold and release to display the Wizard MAIN MENU options.

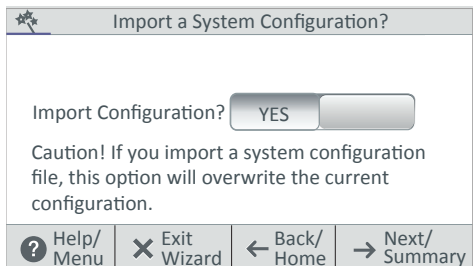
**Exit Wizard:** Tap this button to exit the Setup Wizard and return to the Home screen.

**Next:** Tap Next to continue with the Setup Wizard and display the Detected Hardware screen.

### Import System Configuration:

**Yes:** Use this option to Import a system configuration file (.CFG) from a USB device plugged into the USB Port on the front of the IntelliCenter Control System Outdoor control panel. **Note:** *This option will overwrite the current system configuration.*

**No:** Tap No then Next to continue with the Setup Wizard.



Continue to next page.

## Setup Wizard [Advanced System Configuration]

**Import for USB:** Insert a USB device into the USB Port on the IntelliCenter® Control System Outdoor or Indoor control panel. Tap **Import from USB** and navigate to the system configuration file (.CFG). Follow the on screen instructions to import the system configuration files plugged into the USB Port on the Outdoor or Indoor control panel.

**Local or Copy from Remote:** These options will overwrite the system configuration using a configuration file. Navigate to the appropriate folder and select the Configuration file (.cfg) to import. For more information, [see page 90](#).

**Over-The-Air (OTA) Software Updates** (From software version 1.047)  
See page 107 for detail about automatic IntelliCenter Control System software updates.

Detected Hardware			
Setup had detected the following hardware:			
Personality: iSPS			
Expansion Module1: None			
Expansion Module2: None			
Expansion Module3: None			
Expansion Module4: None			
Help/ Menu	Exit Wizard	Back/ Home	Next/ Summary

**Detected Hardware:** Displays the installed IntelliCenter® Control System Personality main circuit board and Expansion Cards (if applicable). [See page 111](#).

**Next:** Tap Next to continue to the **Zip Code / Location settings screen**.

**Back/Home:** Tap Back to go to the previous screen. Tap hold and release to the first Wizard screen.

**Exit Wizard:** Tap this button to exit the Setup Wizard and display the exit options (No, Yes, Discard).

What is your Zip code / Location	
Zip Code	Brooklyn, NY United States
Latitude	
Y Coordinate	40.65°
Longitude	
Y Coordinate	-73.94°
Time Zone	UTC/GMT -5
Eastern Time (US & Canada)	
Help/ Menu	Exit Wizard
Back/ Home	Next/ Summary

**Update date & Time:** Tap Yes and Next to update the system date and time.

**Clock Mode:** Select either 12 hour or 24 hour mode.

**Daylight Saving Time:** Select ON to automatically set the yearly daylight saving time for your location. Select NO to manually change the daylight savings time for your location. Converting a 12 hr. time to 24 hr. (military time) is from 1:00 PM to 11:59 PM, then add 12 hours, and from 12:00 AM (midnight) to 12:59 AM subtract 12 hours.

Would you like to set the Date & Time?	
Jan. 12, 2018 6:60 pm	
Update Date & Time	<input checked="" type="checkbox"/> YES <input type="checkbox"/>
Help/ Menu	Exit Wizard
Back/ Home	Next/ Summary

**Zip Code / Location Screen:** After the IntelliCenter® Control System has verified the login information successfully, the Location screen is displayed. Tap any setting to update the location information. [See page 40](#).  
*Continue to next page.*

*Note: If the PC time and date do not match the time and date displayed on the Home screen, you need to reset the PC time to match the date and time of the IntelliCenter Control System. See page 40 for more information.*



## Setup Wizard [Advanced System Configuration]

**Time Set:** Tap the Time Set button and set the current time for your location. Tap Check to save and return to the previous page.

**Date Set:** Tap the Date Set button and set the current date. Tap Check to save and return to the previous page.

**Offset (min/month):** Select ON to offset the current time (minutes) and month.

**Configure AUX CIRCUITS:** Setup system AUX circuits.

**Create AUX Circuit:** Tap **Yes** then **Next** to configure an AUX Circuits. Tap **No** then **Next** to continue to Configure Feature Circuits.

**Select an AUX Circuit:** Tap on an AUX Circuit name. From the next screen configure the AUX settings:

**Circuit Function:** Select the Circuit Function.

**Circuit Name:** Select a Circuit name from the pre-defined list of custom circuits names, then tap Check to save and return to the previous screen. **Note: For a complete list of Circuit Names see page 61.**

**Visible in Features: Yes/No.** Select **Yes** to display the selected circuits in the Feature screen on Home screen.

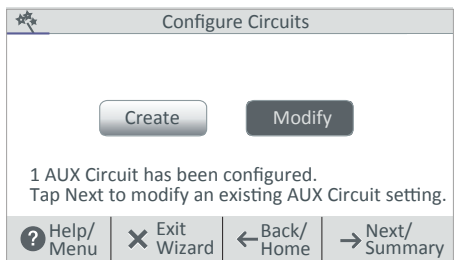
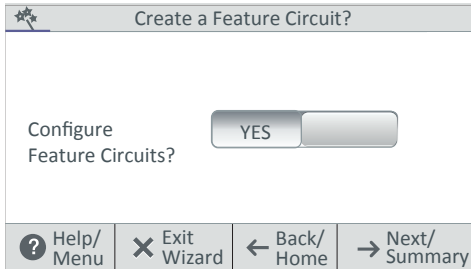
**Egg Timer:** Select ON to select a manual time-out of 0-12 hours for this circuit. The Egg Time is a specified time delay (hrs/mins) for the circuit, once it is turned on.

**Freeze Protection:** Assign freeze protection for this circuit. *See page 56 for details.*

**Create / Modify:** Tap **Next** after the first AUX Circuit has been configured. The Configure Circuits screen is displayed. Select either **Create** or **Modify** to create a new circuit or modify an existing AUX Circuit. After you have configured all of the available AUX Circuits, tap **Next** to continue to Feature Circuits.

## Setup Wizard [Advanced System Configuration]

### Configure Feature Circuit(s)?: Configure Feature circuits (a total of 32).



**Create / Modify:** Tap **Next** after the first AUX Circuit has been configured. The Configure Circuits screen is displayed. Select either **Create** or **Modify** to create a new circuit or modify an existing AUX Circuit. After you have configured all of the available AUX Circuits, tap **Next** to continue to Configure Valves.

**Create Feature Circuit:** Tap **Yes** then **Next** to configure Feature Circuits. Tap **No** then **Next** to continue to Configure Feature Circuits.

**Select a Circuit Function:** Tap on either Generic or Spillway for the circuit function. From the next screen configure the Feature Circuit settings:

**Circuit Function:** Select either **Generic** or **Spillway**. Tap **Next** to continue.

**Circuit Name and Type:** Select a Circuit name from the pre-defined list of custom circuits names, then tap Check to save and return to the previous screen. **Note: For a complete list of Circuit Names see page 61.**

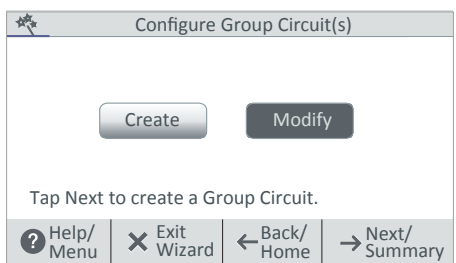
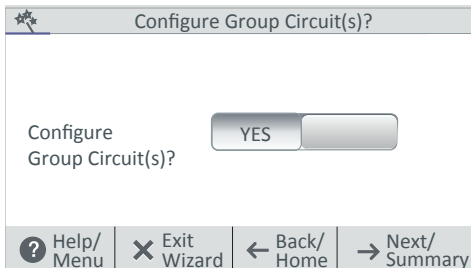
**Visible in Features: Yes/No.** Select Yes to display the selected circuits in the Feature screen on Home screen. Tap **Next** to continue.

**Egg Timer:** Select ON to select a manual time-out of 0-12 hours for this circuit. The Egg Time is a specified time delay (hrs/mins) for the circuit, once it is turned on.

**Freeze Protection:** Assign freeze protection for this circuit. See page 59 for details.

**Add Feature Circuit:** Add more Feature Circuits. Tap **Next** to continue to **Configure Group Circuit(s)?**

### Configure Group Circuit(s)? Configure Group Circuits.



**Configure Group Circuit(s)?** Select **YES** or No to continue to Configure Valve(s). The Configure Group Circuit(s) page displays. Select either **Create** or **Modify** to create a new group of circuits or modify an existing group of circuits. After you have configured circuit groups, tap **Next** to continue to Configure Valves.

*Continue to next page.*

## Setup Wizard [Advanced System Configuration]

Select Group Circuit Type

Circuit Group

Light Group

Circuit Group Settings

Group Name

Night Group

Configure Circuits

3

Egg Timer

12hr. 0min.

**Select Group Circuit Type:** Select Circuit Group. Tap **Next** to display the Group Circuit Settings page.

**Circuit Group Settings:** Tap **Group Name** and enter a name for the circuit group.

**Configure Circuits:** Tap to display the available circuits to include in this group.

Configure Group Circuits:

Spa <small>Function: Spa</small>	On
AUX 1 <small>Function: IntelliBrite</small>	ON
AUX 2 <small>Function: IntelliFlo</small>	Off
AUX 3 <small>Function: Generic</small>	Ignore
AUX 4 <small>Function: Generic</small>	Off

**Configure Circuits:** Tap the name of the circuit to include in this group.

**Configure Circuit:**  
**Include Circuit:** Select **Yes** (or No) to include this circuit in this group). The Circuit State ON/OFF/IGNORE displays.

**ON:** Turn On this circuit in this group.

**OFF:** Turn OFF this circuit in this group

**IGNORE:** Include this circuit in the group regardless of the On/Off state.

No change to the state of this circuit in this group. **Note:** If On, Off or Ignore is indicated in **ORANGE** for a circuit, this indicates a possible schedule time overlap could occur. In this case, the last schedule created will take effect.

**Tap a circuit name to change the current state.**

Tap **Next** to return to the Configure Group Circuits page. Continue to add circuits to this group as described above.

Tap **Next** to display the Circuit Group Settings page.

Tap **Next** to display the Groups page to add another group of circuits or add a LIGHTS circuits group. See next page for LIGHTS circuit groups.

Configure Circuit

Include Circuit

YES

Circuit State

On

Off

Ignore

? Help/  
Menu

✕ Exit  
Wizard

← Back/  
Home

→ Next/  
Summary

Circuit Group Settings

Group Name

Night Group

Configure Circuits

3

Egg Timer

12hr. 0min.

**Egg Timer:** Tap the Egg Timer button to display the Hours and Minutes button. Tap the Hours and Minutes button to select a manual time-out from 0 to 23 hrs. 59 mins. for the circuit. The Egg Time is a specified time delay (hrs/mins) for the circuit, once it is turned on manually. **Don't Stop:** Tap the Hours button until 23 hours is displayed, then tap the button again to display **Do Not Stop**. The Do Not Stop feature will continuously run the circuit until the it is manually turned off.

## Setup Wizard [Advanced System Configuration]

Pool Pump Overview			
Settings			
Speed Circuits			
Help/ Menu	Exit Wizard	Back/ Home	Next/ Summary
Circuit Group Settings			↶
Group Name	Night Group		
Configure Circuits	3		
Egg Timer	12hr. 0min.		
			?

**Select Group Circuit Type:** Select Light Group. Tap **Next** to display the Group Circuit Settings page.

**Light Circuit Group Settings:** Tap **Group Name** and enter a name for the lights circuit group.

**Configure Circuits:** Tap to display the available circuits to include in this group.

**Configure Circuits:** Tap the name of the circuit to include in this group.

**Configure Circuit:**

**Include Circuit:** Select **Yes** (or No not to include this circuit in this group).

Tap **Next** to twice to continue to **Configure Valve(s)**.

### VALVES

**Configure Valves:** Tap **Yes** then **Next** to configure a new valve type. Tap **No** then **Next** to continue to Configure IntelliChlor SCG. *See Valve Circuits on page 77.*

**Intake (standard), Return (standard):** To change the valve name, tap Intake or Return. Tap Valve name, enter the new valve name then tap Check to save and return to the previous screen.

**Valve A and Valve B:** If the optional Valve Module installed, Valve A and Valve B are displayed. To change the valve name, and assign a circuit to Valve A and Valve B, tap Valve A or Valve B on this screen.

**Valve Name:** To change the valve name, tap Intake or Return. Tap Valve name, enter the new valve name then tap Check to save and return to the previous screen.

**Assigned Circuit for Valve A or Valve B:** Tap *unassigned*, and select an AUX circuit for the valve. Tap Check to return to the previous screen. Tap Valve name, enter the new valve name then tap Check to save and return to the previous screen.

Configure Valve(s)		
Valve A Standard	Pool	↑
Valve B Standard	Spa	
Intake Standard	Unassigned	
Return Standard	Unassigned	↓

### PUMPS

Tap **Yes** then **Next** to configure a new pump (Tap **No** then **Next** to continue to Configure Heaters. *See Pump Settings on page 62.*

**Create:** Tap **Create** then **Next** to select a new pump type (Single Speed, Dual Speed, IntelliFlo VS, IntelliFlo VF and IntelliFlo VSF) and configure the selected pump settings.

**Modify:** Tap **Modify** then **Next** to display the list of configured pumps. Tap New Pump to add a pump. From this screen you can add or delete pumps from the list. When finished with setting up pump settings, tap **Next** to continue to the Configure Heaters screen.

## Setup Wizard [Advanced System Configuration]

### PUMPS

Select a new pump type (Single Speed, Dual Speed, IntelliFlo VS, IntelliFlo VF and IntelliFlo VSF) and configure the selected pump settings. Tap Next to continue.

**Settings: Pump Type:** Displays the pump model. **Pump Name:** Tap to select a custom name for the pump.

**Pump Address:** Select the pump address from 1-16.

**Speed Circuits:** Tap Speed Circuits to assign a new speed circuit. Tap New Speed Circuit and select an AUX Circuits.

**Circuit:** Assigned circuit name (Pool).

**Speed (RPM) or GPM:** Set speed from 450 -1350 RPM.

**IntelliFlo VF Settings:** Tap **Settings:** Pump Type (select a different type of pump), Pump Name (enter a name for the pump), Pump Address: select an address for the pump (1-16). Tap Back twice. Tap Flow Circuits.

Tap **New Flow Circuits** (to change the pump circuit). **Flow (GPM):** Tap the -/+ button to set the flow rate (15-134 GPM). Tap Next twice to add another pump or tap Next twice to configure a heater.

**IntelliFlo VS Settings:** Tap **Settings:** Pump Type (select a different type of pump), Pump Name (enter a name for the pump), Pump Address: select an address for the pump (1-16). Tap Back twice. Tap Speed Circuits.

Tap **Speed Circuits.** Tap New Speed Circuits (to change the pump circuit). **Speed (RPM):** Tap the -/+ button to set the pump speed (450-3450 RPM). Tap Next three times to configure a heater.

**IntelliFlo VSF Settings:** Tap **Settings:** Pump Type (select a different type of pump), Pump Name (enter a name for the pump), Pump Address: select an address for the pump (1-16). Tap Back twice. Tap Speed/Flow Circuits.

Tap **New Speed/Flow Circuits** (to change the pump circuit).

**Type: GPM/RPM):** Select either GPM (20-140) or RPM (450-3450). Tap the -/+ button to set the speed (RPM) or Flow Rate (GPM). Tap Next twice to add another pump or tap Next twice to configure a heater.

**Single Speed Pump Settings:** Pump Type (select a different type of pump), Pump Name, and Body (pool, spa or pool/spa). Tap Return then Next to continue and add another pump or tap No twice to configure a heater.

**Two Speed Pump Settings:** Tap Settings: Pump Type (select a different type of pump), Pump Name, Low Speed Circuit and High Speed Circuits. Select a circuit for the low speed and the high speed. You can choose up to (4) four high speed circuits.

Select New Pump Type			
<input checked="" type="radio"/> IntelliFlo VF	<input type="radio"/> IntelliFlo VS		
<input type="radio"/> IntelliFlo VSF	<input type="radio"/> Single Speed		
<input type="radio"/> Two Speed			
Help/Menu	Exit Wizard	Back/Home	Next/Summary

Pool Pump Overview	
Settings	
Speed Circuits	

Help/Menu	Exit Wizard	Back/Home	Next/Summary
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## Setup Wizard [Advanced System Configuration]

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### HEATERS

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Tap **Yes** then **Next** to configure a new heater (Tap **No** then **Next** to continue to Configure Pumps).

**Create (Maximum of three heaters (pool/spa (shared equipment), pool only and spa only):** Tap **Create** then **Next** to select a new heat source type (Gas, Solar, Heat Pump, UltraTemp MasterTemp, Max-E-Temp and Hybrid) and configure the selected heat source settings.

**Heater Name:** Enter a name for the heater.

**Affiliated Body:** Pool, Spa, or Pool and Spa.

**Optional settings:**

**Heat Pump/UltraTemp:** Set Start Temperature from 1 -12.

**Hybrid:** Heater name, select the affiliated body (Pool, Spa, or Pool/Spa, set Heater Address from 1-8, Eco-Time: (1-6). Boost Temp. (1-10 mins). See page 76.

**Modify:** Tap **Modify** then **Next** to display the list of configured heaters. Tap **New Pump** to add a heat source. From this screen you can add or delete a heat source from the list. When finished with setting up heater source settings, tap **Next** to continue to the Configure Remotes screen.

**+ Add Heater:** Tap **Add Heater** to display the available heaters. When finished configuring up the heater settings. Tap **Next** to continue to the Configure Remotes

### REMOTES (SPA-SIDE)

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**QuickTouch Remote:** See page 82 for more information.

- To setup a **QuickTouch** remote, select Yes. If there is no QuickTouch remote installed, select No and tap Next to continue.
- **Remote Name:** You can change the name of the remote and assign the remote's four buttons equipment functions to control.
- **Enable Remote ON/OFF:** To enable the remote select ON. Tap Next to continue.
- **Button Assignments:** Tap Configure. Tap Button 1, then tap the AUX circuit button for this circuit. Tap Back and repeat for buttons 2-4. When all buttons have been assigned, tap Return arrow until SpaCommand remote screen is displayed. Tap Next to continue.

**SpaCommand® Remote:** To setup a SpaCommand remote, select Yes. If there is no SpaCommand remote installed, select No and tap Next to continue.

- **Remote Name:** If needed, you can change the name of the remote.
- **Enable Remote (ON/OFF):** To enable the remote select ON. Tap Next to continue.
- **Remote Channel:** Assign a channel from 1-4. Tap Return.
- **Affected Pump:** Select pump assigned to this remote.
- **Button Assignments:** Tap Configure. Tap Button 1, then tap the AUX circuit button for this circuit. Tap Back and repeat for buttons 2-9. When all buttons have been assigned, tap the Return arrow until SpaCommand remote screen is displayed. Tap Next to continue.

## Setup Wizard [Advanced System Configuration]

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### REMOTES

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**iS10 Remote:** To setup an iS10 remote, select Yes. If there is no iS10 remote installed, select No and tap Next to continue.

- **Remote Name:** If needed, you can change the name of the remote.
- **Enable Remote (ON/OFF):** To enable the remote select ON. Tap Next to continue.
- **Remote Channel:** Assign a channel from 1-4. Tap Return.
- **Affected Pump:** Select pump assigned to this remote.
- **Button Assignments:** Tap Configure. Tap Button 1, then tap the AUX circuit button for this circuit. Tap Back and repeat for buttons 2-9. When all buttons have been assigned, tap the Return arrow until SpaCommand remote screen is displayed. Tap Next to continue.

**iS4 Remote:** See page 81 for more information.

- To setup an iS4 remote, select Yes. If there is no iS4 remote installed, select No and tap Next to continue.
- Remote Name: If needed, you can change the name of the remote.
- Enable Remote ON/OFF: To enable the remote select ON. Tap Next to continue.
- **Button Assignments:** Tap Configure. Tap Button 1, then tap the AUX circuit button for this circuit. Tap Back and repeat for buttons 2-4. When all buttons have been assigned, tap Return arrow until SpaCommand remote screen is displayed. Tap Next to continue.

### Chemical Controllers: IntelliChem® Controller and IntelliChlor® SCG

**Note:** The IntelliCenter® Control System supports one up IntelliChlor SCG (per body of water) and up to four IntelliChem Controllers.

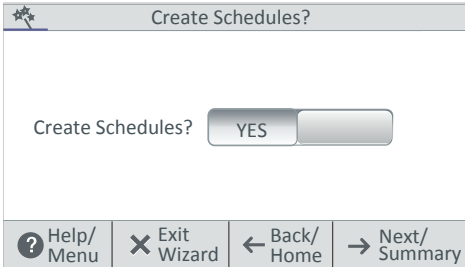
**IntelliChlor SCG:** Tap Yes then Next to configure one IntelliChlor SCG. Tap No for no IntelliChlor SCG installed. **Settings:** Body Assignment (Pool/Spa, Spa or Pool). **Body 1** is assigned Pool/Spa for shared equipment or choose pool or spa for single body systems, **Body 2** is assigned to Spa for shared equipment systems. This screen displays the body of water assigned to the device. See page 79.

**Chlorination Output Levels: Pool Output Levels:** Set the Pool chlorine output levels from 0-100% - 50% default). **Spa Output Levels:** Set the Spa chlorine output levels from 0-100% - 20% default). The system can only generate chlorine while the filter pump is operating. Set the run time percentage to produce chlorine. The higher the percentage the more chlorine is produced. Lower the percentage for less chlorine production. **Note: See page 79 for information about the IntelliChem Controller and IntelliChlor SCG.**

**IntelliChem Controller:** Tap Yes then Next to configure one IntelliChem. Tap No for no IntelliChem Controller installed. **IntelliChem Settings:** Select the Channel (1-4) for the device. **Body 1** is assigned Pool/Spa for shared equipment or choose pool or spa for single body systems, **Body 2** is assigned to Spa for shared equipment systems. This screen displays the body of water assigned to the device.

## Setup Wizard [Advanced System Configuration]

### SCHEDULES



**Schedules:** See page 20 for more information.

- If Yes then Next to configure system schedules.
- If no schedules are required at this time, tap No then Next to continue to the Setup Wizard Summary screen.

**Create / Modify:** Tap Create then Next and select a circuit to schedule. Tap Modify to change an existing schedule. Select a **Weekly** or a **One Time Only** schedule.

**Create a Weekly or Onle Time only Schedule:** Select the circuit to schedule. Tap Next.

**WEEKLY:** **Everyday (days of the week, Weekdays Every day, weekends and No days)**, selected circuit to schedule.

**Start Time: Manual, Sunrise and Sunset:** Tap the **Up/Down** arrow button to set the manual Start time. Tap **Check** to save and return to the previous screen. Tap **Next** to continue with setting up the Stop Time.

**Stop Time:** Tap the **Up/Down** arrow button to set the manual Stop time. Tap **Check** to save and return to the previous screen. Tap Next to continue with setting up the Stop Time.

Tap **Next** to continue to Weekly Schedule (**Heat Mode and Heating Temperature**): Heat Mode: Select Don't Change (use existing heater set point temp. for this schedule) or OFF (turn heater off for this schedule).

**Heating Temp:** Adjust the desired set point temperature for this schedule.

**To exit the Schedules tap Next two times to display the Setup Wizard Summary screen:** Date & Time, Zip code, Time Zone, AUX Circuits, Feature Circuits, Valves, Pumps, Heaters Remotes, IntelliChem, IntelliChlor and Schedules.

### SETUP WIZARD SUMMARY



#### Setup Wizard Summary (Edit Screen):

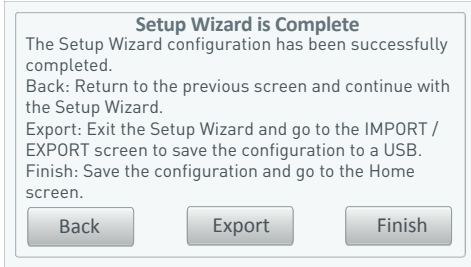
From the Setup Summary screen you can review the changes you have made to the system. If modifications are necessary, tap the item and make the changes. If everything appears to be correct, press **Next** to proceed to the Setup Wizard "Finish" screen.

*Continue to next page.*



## Setup Wizard [Advanced System Configuration]

### Setup Wizard Complete



**Back:** Return to the previous screen and continue with the Setup Wizard.

**Export:** Go to the Export System configuration screen. Tap Yes then Next, select a folder location, tap Check to save the export file. Tap OK to return to Wizard Complete screen. Tap No then Next to return to the Wizard Complete screen. Tap No IMPORT / EXPORT screen to save the configuration to a USB. See page 90.



**Export System Configuration:** Tap Export to USB flash drive to export the current system configuration.



**Export to Local:** Tap Export to Local to save the current system configuration.

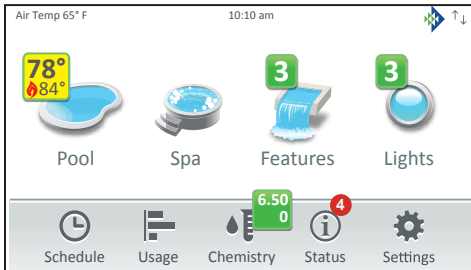
**Back:** Return to the Create Schedule screen.

### Over-The-Air (OTA) Software Updates

(From software version 1.047)

See page 107 for detail about automatic IntelliCenter Control System software updates.

**Finish:** Save the configuration and go to the Home screen. "Rebooting the System" is displayed, then the Home screen is displayed. The Setup Wizard has been successfully completed.



### Home Screen

## IntelliCenter® Control System Remote Access Instructions

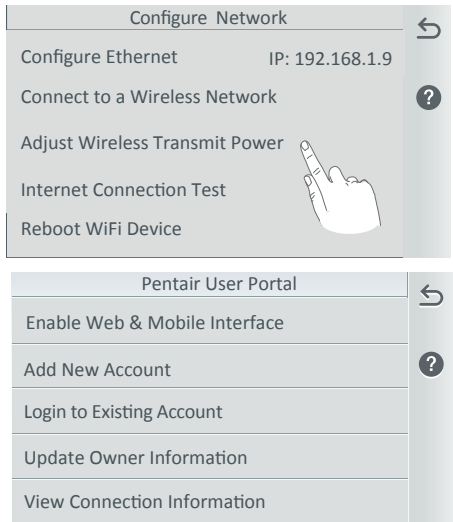
### Wireless Network Antenna Location

[see IntelliCenter Control System Wireless Connections on page 110]

- Internet Connection and adding a new account for [www.intellicenter.com](http://www.intellicenter.com):**  
 For the initial system setup, enter your zip code and location. The next screen to display is the **Pentair User Portal** screen. From there you can setup either a Wireless or Ethernet connection to connect to the Internet. Add a new account or login using an existing account, which includes setting up a password, pool system's owner's name, address and contact information. This account allows access to [www.intellicenter.com](http://www.intellicenter.com) for remote access to the pool system via a smartphone or PC. **For more information about the Pentair User Portal screen, see page 47.**

### Internet Connection Instructions

- From the Home screen, tap **Settings > Advanced System Configuration > Network and WiFi Setup**, see page 85.
- Tap **Settings > Pentair User Portal**, see page 47.
- Tap **Enable Web & Mobile Interface**.
- Change the toggle to **ON** and tap the Return arrow.
- Tap **Add New Account**.
- Tap **Property Name** and enter the name of the property, and tap the Checkmark.
- Tap **Email** and enter the users Email address, and tap the Checkmark.
- Tap the Checkmark to go to the next screen.
- The users Email address should be shown on the first button. If it is not shown, tap the button and add it as described in the steps above.
- Tap **Enter Password** and enter a Password, then tap the checkmark. Note: The password should have a least one uppercase letter.
- Tap the Re-Enter Password button and retype the password, and tap the Checkmark
- Tap the Checkmark to complete the process. Once the account setup is complete, return to the home screen and wait for the Pentair logo to appear. After the Pentair logo appears you are connected to [www.intellicenter.com](http://www.intellicenter.com) and should be able to remotely connect to your IntelliCenter Control System using your User Name and Password used previously.



## Over-The-Air (OTA) Firmware Updates

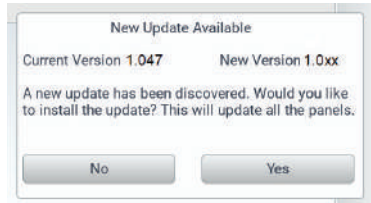
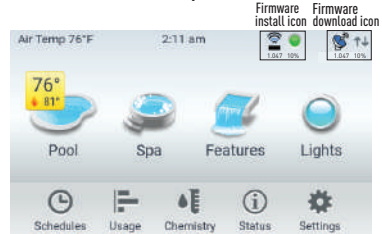
The IntelliCenter® Control System can receive firmware updates via your WiFi home wireless router. When available, firmware updates will automatically be downloaded to the Indoor and Outdoor Control Panel (OCP), Wireless Remote and Expansion panels in silent mode. Once this process has been completed, in background while the system is operating, all Sub-Panels will display a message dialog indicating a new software update is ready to install.

**Note:** For firmware versions before version 0.20, be sure to configure (enable) all system panels as described on page 110 to receive Over-The-Air (OTA) software updates.

**Home Screen (Outdoor Control Panel (OCP) master panel:** When an IntelliCenter Control System firmware update message dialog is displayed on the panels, it indicates that the firmware update has been downloaded to the system and is now ready to install. You can accept or reject the update:

- During the firmware download process to the Outdoor Control Panel (OCP) master panel, the download firmware version icon and the completion percentage is displayed (top right of OCP screen). After the download process has been completed the following dialog boxes are displayed.
- **No:** Do not accept the latest firmware update at this time. This update will not occur again and until the next time new a firmware version update is available.
- **Yes:** Accept and start the firmware update for all configured panels. **Note:** If needed, see page 110 for panel configuration instructions. **Note:** Pumps and other equipment operating on schedules will momentary reset after the firmware update is completed.

Continue to next page.



The IntelliCenter Control System app is available for Apple iOS and Android devices.

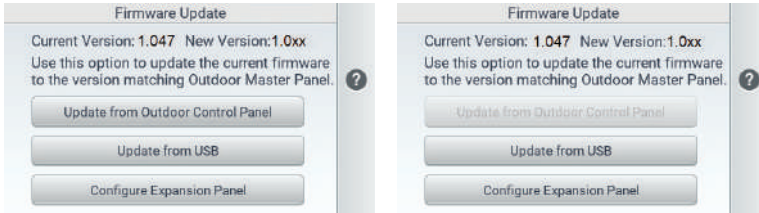
**Important Note:** Use following IntelliCenter Firmware V1.040 update instructions for a FIRST TIME SYSTEM INSTALL or after a SYSTEM FACTORY RESET. Enable all System Panels: Outdoor Control Panel (OCP), Indoor Control Panel (ICP), Expansion Panel (XCP) and Wireless Control Panel (WCP): IntelliCenter® CONTROL SYSTEM FIRMWARE V1.040 UPDATE AVAILABLE ONLINE AT:

<http://www.pentair.com/poolsoftwaredownloads>.

## Over-The-Air (OTA) Firmware Updates (Panel Mismatch)

- **Manual Firmware Update Option (USB) Update Later:** If you chose not to install the latest firmware update, you can copy it to a USB device from the outdoor panel and install it onto other panels that are mismatched and not yet updated.
- **Firmware Updates from <http://www.pentair.com/poolsoftwaredownloads>**

If you chose not to install the latest firmware update when it was available, you can download the latest version from the link shown above, then copy it to a USB device from the outdoor panel and install it onto other Expansion panels that were not updated. *Note: If needed, be sure to configure (enable) all system Sub-Panels. See “Configure Expansion Panel” below.*

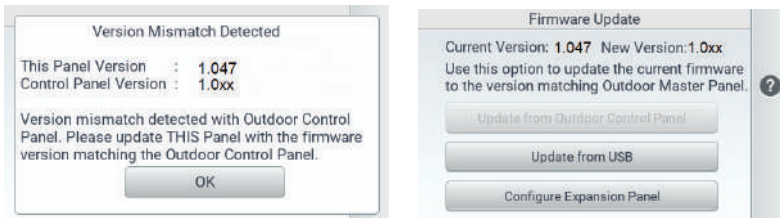


**Mis-Match Firmware detected (on Sub-Panels):** If a Firmware update was unsuccessfully installed on a sub-panel, a MIS-MATCH message is displayed (“Version Mismatch Detected”) on the panel that does not match the firmware version on the Outdoor Control Panel (OCP) master panel.

Note: If for example the wireless remote was asleep when a firmware update was attempted, the system will indicate there is a firmware mis-match between the main OCP and wireless remote.

**Firmware Update Dialog Box (manual USB option):** From this dialog box you can update the mismatched panel as follow:

- **Download the latest firmware version from:** <http://www.pentair.com/poolsoftwaredownloads>. Copy this update file to a USB device.
- Tap “Update from USB” to install the latest firmware onto the mismatched panel.
- **Configure Expansion Panel:** Use this option to configure a Sub-Panel that is not configured to accept OTA firmware updates.



## Enabling All System Panels (for software versions up to 1.047)

Using software versions up to 1.047 the IntelliCenter Control System can receive software updates via your wireless home wireless router. Software updates will automatically occur to the Indoor and outdoor control panel, wireless remote and Expansion panels in background while the system is operating. **Note: to receive over-the-air software updates, be sure to configure all the system panels as described below:**

**Enable all System Panels:** Outdoor Control Panel (OCP), (Indoor Control Panel (ICP), Expansion Panel (XCP) and Wireless Control Panel (WCP):

1. Configure the ICP on both OCP and ICP: From the Main Outdoor Control Panel Home screen, tap Settings > Advanced System Configuration > IntelliCenter Indoor Panel Setup > Indoor Panel #1 (Repeat if a second ICP (#2) is connected). Repeat this procedure again for the ICP, starting from the ICP Home Screen. Select Assign this Panel to Indoor Panel #1 (on the Indoor Panel Enable screen). If configuring a second ICP (#2), then select Assign this Panel to Indoor Panel #2.
2. Configure the WCP on both OCP and WCP: From the Main OCP Home screen, tap Settings > Advanced System Configuration > IntelliCenter Wireless Remote Setup. The IntelliCenter Wireless Remote Setup screen is displayed. Tap Enable Panel (On). Use the Wireless Channel button to select an address (default is 15). Note: Be sure to match the same Channel # for the WCP and OCP. Repeat this procedure again for the WCP, starting from the WCP Home Screen. Note: If the wireless channel number is changed, be sure to change the Wireless Repeater channel to the same channel number.
3. Configure the XCP from the OCP Home Screen (#1, #2, or #3 if system has more than 1 XCP):
  - a) tap Settings > Advanced System Configuration > Installation Setup > Body Configuration.
  - b) Select Expansion 1 (disabled) XCP1 (for XCP#1).
  - c) On the Panel Identification screen, select Enable/Disable and tap the Enable button.
  - d) Tap the Return button, then select i5x (5 Relays).
  - e) If the i10x kit is installed, select i10x on the Expansion Panel Daughter Card screen instead of i5x.
  - f) On the Expansion Panel Daughter Card screen, tap Return.
4. Configure Expansion Panels (XCP #1, #2, or #3):
  - a) Tap Settings > Advanced System Configuration > Installation Setup > Body Configuration. Repeat steps 3a to 3f above, except for 3c:
  - b) After selecting Enable/Disable select Assign this Panel to Expansion 1 (if this is XCP #1) and tap the Return button.
  - c) Repeat Steps 4a to 4b to configure XCP #2 and XCP #3
5. Once all the Panels are configured (enable), check that the system panels have the same firmware version and are fully functional.



## IntelliCenter® Control System Configurations and Models

PANEL: TYPE: CAPABILITY:

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OCP0	i5P	<p>i5P Capabilities:</p> <ul style="list-style-type: none"> <li>Single body of water (Pool or Spa)</li> <li>Filter pump relay + 4 AUX relays</li> <li>Valve A &amp; B</li> <li>Heater control (Gas &amp; Electric)</li> <li>Solar relay output</li> <li>2-speed relay output</li> <li>Water, Air, Solar Sensor</li> <li>Two COM ports</li> <li>Ethernet port</li> <li>iS4 port</li> </ul>
OCP0	i5PS	<p>i5PS Capabilities:</p> <ul style="list-style-type: none"> <li>Shared equipment (Pool and Spa)</li> <li>Intake &amp; Return valves</li> <li>Same as i5P (see above for details)</li> </ul>
OCP0	i8P	<p>i8P Capabilities:</p> <ul style="list-style-type: none"> <li>Single body of water (Pool or Spa)</li> <li>Filter pump relay + 7 AUX relays</li> <li>Same as i5P (see above for details)</li> </ul>
OCP0	i8PS	<p>i8PS Capabilities:</p> <ul style="list-style-type: none"> <li>Shared equipment (Pool and Spa)</li> <li>Filter pump relay+ 7 AUX relays</li> <li>Intake &amp; Return valves</li> <li>Same as i5P (see above for details)</li> </ul>
OCP0	i10P	<p>i10P Capabilities:</p> <ul style="list-style-type: none"> <li>Single body of water (Pool or Spa)</li> <li>Filter pump relay+ 9 AUX relays</li> <li>Same as i5P (see i5P for details)</li> </ul>
OCP0	i10PS	<p>i10PS Capabilities:</p> <ul style="list-style-type: none"> <li>Shared equipment (Pool and Spa)</li> <li>Filter pump relay+ 9 AUX relays</li> <li>Intake and Return valves</li> <li>Same as i5P (see i5P for details)</li> </ul>
OCP0	i10D	<p>i10D Capabilities:</p> <ul style="list-style-type: none"> <li>Dual Bodies of water with separate</li> <li>Pumps, Filters and Heaters</li> </ul>

## IntelliCenter® Control System Configurations and Models

PANEL:	CAPABILITY:
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### 1 or 2 bodies of water:

**OCP0:** Main Circuit board - i5P capability

XCP1: Exp Motherboard - i5X or i10X

XCP2: Exp Motherboard - i5X or i10X

XCP3: Exp Motherboard - i5X or i10X

OCP1-4  
VALVEXP Valve Expansion module:  
six extra valve outputs (C, D, E, F, G & H)

OCP1-4  
A TO DXP Allows external input for system control  
Analog/Digital (eg. Pool Cover)  
Expansion  
module:



## Troubleshooting - Error Messages/Error Codes

Device Type: Heater

Device Name: Gas Heater

Alert Type: Error

Alert Message	Note
5 Alarms in an hour	Note: Indicates 5 faults have occurred in 1 hour. This fault will automatically reset in one hour or can be manually reset by pressing the ON/OFF button. Press the ON/OFF button to clear the alarm. Check Heat Pump over the next few minutes/ hours to see if alarm appears again. This alarm most likely caused the five alarms in one hour.
Brownout	Note: Check input voltage to the heat pump, supply voltage should be between 208 and 260 Volts. Or have technician inspect heat pump for bad transformer.
Communication Lost	Note: This usually indicates that the communication cable between UltraTemp and the automation system has been disrupted in some manner. Please check this wiring.
Defrost Temp Sensor Open	Note: Call technician to verify condition and connection of defrost temp sensor and/or control board.
defrost Temp Sensor Shorted	Note: Call technician to verify condition and connection of defrost temp sensor and/or control board.
High Refrigerant	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If equipped with an external bypass plumbing loop, ensure that the bypass valve is closed allowing water to flow through the heat pump. If these troubleshooting steps do not resolve the problem, call technician.
High Water Temperature	Note: Water temp is above 107°F. Call technician to verify operation of thermistor and/or control board.
Low Ambient Temperature	Note: **Automation Team: Which error code in the Heat Pump triggers this alarm?
Low Refrigerant	Note: Air and water temperatures may be too cold to operate the heat pump. Wait until temperatures warm up and see if unit operates. Also check to be sure that the area around the heat pump is not blocking air flow around the air coil of the heat pump. Check fan for proper operation. If these troubleshooting steps do not resolve the problem, call technician.
Low Water Flow	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If equipped with an external bypass plumbing loop, ensure that the bypass valve is closed allowing water to flow through the heat pump. If these troubleshooting steps do not resolve the problem, call technician.
Low Water Temperature	Note: Call technician to verify operation of thermistor and/or control board.
Pool and Spa remote inputs are both enabled	Note: Pool and Spa remote inputs are simultaneously energized. Call technician to correct wiring error.
Water Temp Sensor Open	Note: Verify connection to water temp sensor. Call technician to verify condition and connection of water temp sensor.
Water Temp Sensor Shorted	Note: Verify connection to water temp sensor. Call technician to verify condition and connection of water temp sensor.

## Troubleshooting - Error Messages/Error Codes

**Device Type:** Heater

**Device Name:** Solar Heater

**Alert Type:** Error

Alert Message	Note
5 Alarms in an hour	Note: Indicates 5 faults have occurred in 1 hour. This fault will automatically reset in one hour or can be manually reset by pressing the ON/OFF button. Press the ON/OFF button to clear the alarm. Check Heat Pump over the next few minutes/hours to see if alarm appears again. This alarm most likely caused the five alarms in one hour.
Brownout	Note: Check input voltage to the heat pump, supply voltage should be between 208 and 260 Volts. Or have technician inspect heat pump for bad transformer.
Communication Lost	Note: This usually indicates that the communication cable between UltraTemp and the automation system has been disrupted in some manner. Please check this wiring.
Defrost Temp Sensor Open	Note: Call technician to verify condition and connection of defrost temp sensor and/or control board.
defrost Temp Sensor Shorted	Note: Call technician to verify condition and connection of defrost temp sensor and/or control board.
High Refrigerant	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If equipped with an external bypass plumbing loop, ensure that the bypass valve is closed allowing water to flow through the heat pump. If these troubleshooting steps do not resolve the problem, call technician.
High Water Temperature	Note: Water temp is above 107°F. Call technician to verify operation of thermistor and/or control board.
Low Ambient Temperature	Note: **Automation Team: Which error code in the Heat Pump triggers this alarm?
Low Refrigerant	Note: Air and water temperatures may be too cold to operate the heat pump. Wait until temperatures warm up and see if unit operates. Also check to be sure that the area around the heat pump is not blocking air flow around the air coil of the heat pump. Check fan for proper operation. If these troubleshooting steps do not resolve the problem, call technician.
Low Water Flow	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If equipped with an external bypass plumbing loop, ensure that the bypass valve is closed allowing water to flow through the heat pump. If these troubleshooting steps do not resolve the problem, call technician.
Low Water Temperature	Note: Call technician to verify operation of thermistor and/or control board.
Pool and Spa remote inputs are both enabled	Note: Pool and Spa remote inputs are simultaneously energized. Call technician to correct wiring error.
Water Temp Sensor Open	Note: Verify connection to water temp sensor. Call technician to verify condition and connection of water temp sensor.
Water Temp Sensor Shorted	Note: Verify connection to water temp sensor. Call technician to verify condition and connection of water temp sensor.

## Troubleshooting - Error Messages/Error Codes

Device Type: Heater

Device Name: Hybrid

Alert Type: Error

Alert Message	Note
5 Alarms in an hour	Note: Indicates 5 faults have occurred in 1 hour. This fault will automatically reset in one hour or can be manually reset by pressing the ON/OFF button. Press the ON/OFF button to clear the alarm. Check Heat Pump over the next few minutes/hours to see if alarm appears again. This alarm most likely caused the five alarms in one hour.
Air Flow Switch	Note: Call technician to troubleshoot UltraTemp ETi Hybrid. CAUTION: High Voltage Checks. Observe extreme caution or call dealer or factory for advice before attempting to troubleshoot Electrical Box.
Automatic Gas Shut Off	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If these troubleshooting steps do not resolve the problem, call technician.
Brownout	Note: Check input voltage to the heat pump, supply voltage should be between 208 and 260 Volts. Or have technician inspect heat pump for bad transformer.
Communication Lost	Note: This usually indicates that the communication cable between UltraTemp ETi Hybrid and the automation system has been disrupted in some manner. Please check this wiring.
Condensate Filter	Note: Condensate neutralizer cartridge's effective lifetime has expired. Heater run time has met service interval for condensate neutralizer cartridge. Check pH of gas heater condensate. Replace as necessary and reset alarm/counter.
Condensate Float Switch	Note: Condensate float switch detects water in exhaust stack. Verify proper hose routing from heater base. Ensure there are no loops, kinks or elevated portions between hose exit and heater base. Correct as necessary. If checking the hose routing does not solve problem, call technician to troubleshoot.
Freeze Warning	Note: Ambient air temperature is too low for gas heater operation. Shut down and properly winterize heater. If ambient air temp is not low, call technician to troubleshoot.
High Limit Switch	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If these troubleshooting steps do not resolve the problem, call technician.
High Refrigerant	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If equipped with an external bypass plumbing loop, ensure that the bypass valve is closed allowing water to flow through the heat pump. Check fan for proper operation. If these troubleshooting steps do not resolve the problem, call technician.
High Water Temperature	Note: Water temp is above 107°F. Call technician to verify operation of thermistor and/or control board.
ICM Fault	Note: Call technician to troubleshoot UltraTemp ETi Hybrid. CAUTION: High Voltage Checks. Observe extreme caution or call dealer or factory for advice before attempting to Troubleshoot Electrical Box.
Low Ambient Temperature	Note: **Automation Team: Which error code in the UltraTemp ETi Hybrid triggers this alarm?
Low Refrigerant	Note: Air and water temperatures may be too cold to operate the heat pump. Wait until temperatures warm up and see if unit operates. Also check to be sure that the area around the heat pump is not blocking air flow around the air coil of the heat pump. Check fan for proper operation. If these these troubleshooting steps do not resolve the problem, call technician.
Low Water Flow	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If these these troubleshooting steps do not resolve the problem, call technician.
Low Water Temperature	Note: Call technician to verify operation of thermistor and/or control board.
Stack Flue High Temp	Note: Check exhaust vent for obstruction. Verify proper water flow to heater. If these these troubleshooting steps do not resolve the problem, call technician.
Stack Flue Open/Short	Note: Call technician to verify condition and connection of stack flue sensor and/or control board.
Stack Flue Runaway	Note: **Automation Team: Which error code in the Heat Pump triggers this alarm?

## Troubleshooting - Error Messages/Error Codes

**Device Type: Heater**

**Device Name: Hybrid**

**Alert Type: Error**

Alert Message	Note
Low Refrigerant	Note: Air and water temperatures may be too cold to operate the heat pump. Wait until temperatures warm up and see if unit operates. Also check to be sure that the area around the heat pump is not blocking air flow around the air coil of the heat pump. Check fan for proper operation. If these troubleshooting steps do not resolve the problem, call technician.
Low Water Flow	Note: Check to be sure that water circulation pump is on. If pump is on, verify flow rate is adequate. If these troubleshooting steps do not resolve the problem, call technician.
Low Water Temperature	Note: Call technician to verify operation of thermistor and/or control board.
Stack Flue High Temp	Note: Check exhaust vent for obstruction. Verify proper water flow to heater. If these troubleshooting steps do not resolve the problem, call technician.
Stack Flue Open/Short	Note: Call technician to verify condition and connection of stack flue sensor and/or control board.
Stack Flue Runaway	Note: **Automation Team: Which error code in the Heat Pump triggers this alarm?
Suction Temperature Sensor Open/Short	Note: Call technician to verify operation of defrost temp sensor and/or control board.
Thermal Fuse	Note: Thermal fuse is open. Call technician to troubleshoot.
Water Temperature Sensor Open/Short	Note: Call technician to verify operation of thermistor and/or control board.

Alert Message	Note
Brownout	Note: [Description Alert] Brownout
High Refrigerant Level	Note: [Description Alert] High Refrigerant Level
Low Refrigerant Level	Note: [Description Alert] Low Refrigerant Level
Five Alarms in an hour	Note: [Description Alert] Five Alarms in an hour
Low Ambient Temperature	Note: [Description Alert] Low Ambient Temperature
High Water Temperature	Note: [Description Alert] High Water Temperature
Low Water Temperature	Note: [Description Alert] Low Water Temperature
Low Water Flow	Note: [Description Alert] Low Water Flow
Pool and Spa remote inputs are both enabled	Note: [Description Alert] Pool and Spa remote inputs are both enabled
Water Temperature Sensor Open	Note: [Description Alert] Water Temperature Sensor Open
Water Temperature Sensor shorted	Note: [Description Alert] Water Temperature Sensor shorted
Defrost Temperature Sensor Open	Note: [Description Alert] Defrost Temperature Sensor Open
Defrost Temperature Sensor shorted	Note: [Description Alert] Defrost Temperature Sensor shorted
Communication Lost	Note: [Description Alert] Communication Lost

## Troubleshooting - Error Messages/Error Codes

**Device Type: Heater**

**Device Name: Max-E-Therm**

**Alert Type: Error**

<b>Alert Message</b>	<b>Note</b>
Water Pressure Switch	Note: [Insufficient water flow rate. Please increase the water flow. Inspect the pump basket to remove debris. Eliminate other obstructions for water to flow] Water Pressure Switch
High Limit Switch	Note: [Water outlet has exceed 135°F. Verify water flow rate is above minimum. Service pump and filter to restore proper flow. Verify water inlet temperature is below 104°F. Verify internal bypass valve, thermal governor and heat exchanger for blockage] High Limit Switch
Air Flow Switch	Note: [Insufficient blower air flow. Verify blower operation]. Check for any blockage in the blower intake, heat exchanger, and exhaust. Air Flow Switch
Auto Gas Shutoff Switch	Note: [Water outlet has exceed 135°F. Verify water flow rate is above minimum. Service pump and filter to restore proper flow. Verify water inlet temperature is below 104°F. Verify internal bypass valve, thermal governor and heat exchanger for blockage] Auto Gas Shutoff Switch
Ignition Control Error	Note: [Contact your pool professional] Ignition Control Error
Stack Flu Sensor Error Alarm	Note: [Excessive stack flue temperature. Contact your pool professional] Stack Flu Sensor Error Alarm
Stack Flu Sensor Open Alarm	Note: [Contact pool professional to verify condition and connection of flue gas sensor] Stack Flu Sensor Open Alarm
Stack Flu Sensor Short Alarm	Note: [Contact pool professional to verify condition and connection of flue gas sensor] Stack Flu Sensor Short Alarm
Water Sensor Open Alarm	Note: [Contact pool professional to verify condition and connection of water sensor ] Water Sensor Open Alarm
Water Sensor Short Alarm	Note: [Contact pool professional to verify condition and connection of water sensor] Water Sensor Short Alarm
Air Flow Fault Alarm	Note: [[Insufficient blower air flow. Verify blower operation. Check for any blockage in the blower intake, heat exchanger, and exhaust. Contact pool professional to verify condition and connection of air flow switch] Air Flow Fault Alarm
Flame No Call For Heat Alarm	Note: [Contact your pool professional] Flame No Call For Heat Alarm
Ignition Lockout Alarm	Note: [Contact your pool professional] Ignition Lockout Alarm
Weak Flame Alarm	Note: [Flame strength is low. Contact pool professional] Weak Flame Alarm
Communication Lost	Note: [Description Alert] Communication Lost

## Troubleshooting - Error Messages/Error Codes

Device Type: Heater

Device Name: MasterTemp

Alert Type: Error

Alert Message	Note
Water Pressure Switch	Note: [Insufficient water flow rate. Please increase the water flow. Inspect the pump basket to remove debris. Eliminate other obstructions for water to flow] Water Pressure Switch
High Limit Switch	Note: [Water outlet has exceed 135°F. Verify water flow rate is above minimum]. Service pump and filter to restore proper flow. Verify water inlet temperature is below 104°F. Verify internal bypass valve, thermal governor and heat exchanger for blockage] High Limit Switch
Air Flow Switch	Note: [Insufficient blower air flow. Verify blower operation. Check for any blockage in the blower intake, heat exchanger, and exhaust] Air Flow Switch
Auto Gas Shutoff Switch	Note: [Water outlet has exceed 135°F. Verify water flow rate is above minimum. Service pump and filter to restore proper flow. Verify water inlet temperature is below 104°F. Verify internal bypass valve, thermal governor and heat exchanger for blockage] Auto Gas Shutoff Switch
Ignition Control Error	Note: [Contact your pool professional] Ignition Control Error
Stack Flu Sensor Error Alarm	Note: [Excessive stack flue temperature. Contact your pool professional] Stack Flu Sensor Error Alarm
Stack Flu Sensor Open Alarm	Note: [Contact pool professional to verify condition and connection of flue gas sensor] Stack Flu Sensor Open Alarm
Stack Flu Sensor Short Alarm	Note: [Contact pool professional to verify condition and connection of flue gas sensor] Stack Flu Sensor Short Alarm
Water Sensor Open Alarm	Note: [Contact pool professional to verify condition and connection of water sensor ] Water Sensor Open Alarm
Water Sensor Short Alarm	Note: [Contact pool professional to verify condition and connection of water sensor] Water Sensor Short Alarm
Air Flow Fault Alarm	Note: [[Insufficient blower air flow. Verify blower operation. Check for any blockage in the blower intake, heat exchanger, and exhaust. Contact pool professional to verify condition and connection of air flow switch] Air Flow Fault Alarm
Flame No Call For Heat Alarm	Note: [Contact your pool professional] Flame No Call For Heat Alarm
Ignition Lockout Alarm	Note: [Contact your pool professional] Ignition Lockout Alarm
Weak Flame Alarm	Note: [Flame strength is low. Contact pool professional] Weak Flame Alarm
Communication Lost	Note: [Description Alert] Communication Lost

## Troubleshooting - Error Messages/Error Codes

Device Type: ICHEM

Device Name: IntelliChem Alert Type: Error

Alert Message	Note
Auto Calibration Failed	Auto Calibration Failed
Check ORP Container	Note: IntelliChem has indicated that your ORP chemical tank is running low. It may be time to refill it.
Check pH Container	Note: IntelliChem has indicated that your pH chemical tank is running low. It may be time to refill it.
Communication Lost	Note: IntelliChem has lost communication with the outdoor control panel. Please check that the filter pump relay is active and that the communication cable is wired properly.
Invalid Settings	Invalid Settings
ORP Feed Limit	Note: IntelliChem has several safe guards built into it to prevent too much chlorine from being dispensed into your pool. One of them is a daily maximum feed limit (usually in ounces). If IntelliChem reaches this limit, it will stop allowing chlorine from being dispensed. You may need to increase IntelliChem's daily ORP feed limit to prevent this alarm.
Peripheral Com Error	Peripheral Com Error
pH Feed Limit	Note: IntelliChem has several safe guards built into it to prevent too much muriatic acid from being dispensed into your pool. One of them is a daily maximum feed limit (usually in ounces). If IntelliChem reaches this limit, it will stop allowing muriatic acid or CO2 from being dispensed. You may need to increase IntelliChem's daily pH feed limit to prevent this alarm.
pH Lockout	Note: This means that IntelliChem is not able to keep your pH level at a low enough level (usually below 7.8) to not have a suppressive effect on your ORP level. To prevent IntelliChem from adding too much chlorine to your pool, IntelliChem has stopped adding chlorine until your pH level is decreased. This usually happens when your pH tank has run out of muriatic acid or your CO2 tank is empty.
Alert Message	Note
pH Low	Note: IntelliChem pH reading is below 7.2 (typical good range is 7.2 to 7.6). It's rare for pools to stay below the 7.2 pH level. You may need to add a pH up chemical to your pool if the level doesn't rise over time. Please consult your pool professional for a recommended action.
No Flow	Note: The IntelliChem flow switch has indicated there is no flow to the flow cell where the pH and ORP probes are located. This can be caused by a dirty/clogged pool filter or IntelliChem prefilter or too slow of a pump speed.
ORP High	Note: IntelliChem ORP reading is above 750. If your pool consistently measures above 750 ORP and a manual chlorine reading is above 3ppm, you should decrease your ORP set point to get your chlorine PPM into the desired 1-3 ppm range.
ORP Low	Note: IntelliChem will alert when the ORP level is below 650. If your pool consistently measures below 650 and a chlorine PPM reading is below 1 ppm, you may consider increasing your ORP set point to get your chlorine PPM into the recommended 1-3 ppm range. Also note that ORP probes take at least an hour before the reading stabilizes. It is perfectly normal to start the day at a very low 400-600 ORP reading. Similarly, the probe will read on the high side in the late afternoon and evening hours after the sun stops hitting the pool.
pH High	Note: IntelliChem will alert when the pH is above the 7.6 pH level (typical good range is 7.2 to 7.6). This could be temporary as IntelliChem signals your muriatic acid or CO2 feeder to add more to your pool to lower the pH level. If the pH level doesn't lower, this usually means that your acid or CO2 tank may be empty. Otherwise, you may need to increase IntelliChem's dose amount, lower the mixing time, or change the sensitivity to High.

## Troubleshooting - Error Messages/Error Codes

**Device Type: ICHEM**

**Device Name: IntelliChlor**

**Alert Type: Error**

Alert Message	Note
Clean & Inspect Cell	Note: IntelliChlor has indicated that it senses buildup on its chlorine generating cell blades which is hampering its ability to make chlorine. This is a normal occurrence that happens over time. This calcium buildup can be eliminated by turning off your filter pump, removing your salt cell from the plumbing, and spraying a garden hose on the jet setting to remove the excess calcium buildup inside the cell. You can also do an acid wash per the instructions in the IntelliChlor manual.
Cold Water Cutoff	Note: IntelliChlor won't produced chlorine in water temperatures below 52F degrees. When the water is this cold, you should manually add chlorine to your pool, if needed.
Communication Lost	Note: This usually indicates that the 4-wire communication cable between IntelliChlor and IntelliChem has been disrupted in some manner. Please check this wiring.
Very Low Salt	Note: IntelliChlor's salt level reading is below 2650. IntelliChlor's optimum salt level is 3,450 ppm, so salt needs to be added to your pool to raise the PPM to the IntelliChlor target. One 40 lb bag of salt will raise your salt ppm by approximately 500 in a 10,000 gallon pool and by 200 in a 25,000 gallon pool. Tip: Salt and stabilizer only decrease from splash out or dilution. So if your salt level is low, your stabilizer level is probably low also
Low Salt	Note: IntelliChlor's salt level reading is below 2850. IntelliChlor's optimum salt level is 3,450 ppm, so salt needs to be added to your pool to raise the PPM to the IntelliChlor target. One 40 lb bag of salt will raise your salt ppm by approximately 500 in a 10,000 gallon pool and by 200 in a 25,000 gallon pool. Tip: Salt and stabilizer only decrease from splash out or dilution. So if your salt level is low, your stabilizer level is probably low also.

**Device Type: PUMP**

**Device Name: VF**

**Alert Type: Error**

Alert Message	Note
Communication Lost	Note: This indicates that IntelliCenter is not able to communicate with IntelliFlo via the 50 foot pump communication cable. Please check the pump cable's green and yellow wires are inserted correctly in one of the IntelliCenter COM ports. Also make sure the cable is securely attached into the side of the IntelliFlo pump.
Drive Over Temperature	Note: The IntelliFlo pump has sensed that it is getting too hot. Please make sure that the back of the pump is clear of debris and dirt. In very hot climates like Arizona, it may help to shield the pump from direct sunlight.
Over Current	Note: IntelliFlo has sensed that it is receiving too much current. It is recommended that you contact your pool professional and/or electrician.
Over Voltage	Note: IntelliFlo has sensed that it is receiving too much voltage. It is recommended that you contact your pool professional and/or electrician.
Power Outage	Note: IntelliFlo has sensed that a power outage occurred.
Priming Alarm	Note: The IntelliFlo pump is having trouble priming. Ensure that the water level of the pool is high enough to fill the skimmer basket. Also check to make sure your skimmer baskets and pump basket are not clogged with leaves or debris. Make sure to bleed air out of the top of your filter as the pump is priming or when running. Always exercise caution when your are working in close proximity to working pool pumps and filters that are under pressure.
Drive Temperature	Note: The IntelliFlo pump has sensed that it is getting too hot. Please make sure that the back of the pump is clear of debris and dirt. In very hot climates like Arizona, it may help to shield the pump from direct sunlight.



## Troubleshooting - Error Messages/Error Codes

Device Type: PUMP

Device Name: VS Alert Type: Error

Alert Message	Note
Over Current	Note: IntelliFlo has sensed that it is receiving too much current. It is recommended that you contact your pool professional and/or electrician.
Over Voltage	Note: IntelliFlo has sensed that it is receiving too much voltage. It is recommended that you contact your pool professional and/or electrician.
Power Outage	Note: IntelliFlo has sensed that a power outage occurred.
Priming Alarm	Note: The IntelliFlo pump is having trouble priming. Ensure that the water level of the pool is high enough to fill the skimmer basket. Also check to make sure your skimmer baskets and pump basket are not clogged with leaves or debris. Make sure to bleed air out of the top of your filter as the pump is priming or when running. Always exercise caution when you are working in close proximity to working pool pumps and filters that are under pressure.

Drive Temperature	Note: The IntelliFlo pump has sensed that it is getting too hot. Please make sure that the back of the pump is clear of debris and dirt. In very hot climates like Arizona, it may help to shield the pump from direct sunlight.
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Over Current	Note: IntelliFlo has sensed that it is receiving too much current. It is recommended that you contact your pool professional and/or electrician.
Over Voltage	Note: IntelliFlo has sensed that it is receiving too much voltage. It is recommended that you contact your pool professional and/or electrician.
Power Outage	Note: IntelliFlo has sensed that a power outage occurred.
Priming Alarm	Note: The IntelliFlo pump is having trouble priming. Ensure that the water level of the pool is high enough to fill the skimmer basket. Also check to make sure your skimmer baskets and pump basket are not clogged with leaves or debris. Make sure to bleed air out of the top of your filter as the pump is priming or when running. Always exercise caution when you are working in close proximity to working pool pumps and filters that are under pressure.

Drive Temperature	Note: The IntelliFlo pump has sensed that it is getting too hot. Please make sure that the back of the pump is clear of debris and dirt. In very hot climates like Arizona, it may help to shield the pump from direct sunlight.
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## Glossary

**802.11:** Refers to a family of specifications developed by the IEEE for Wireless LAN technology. 802.11 specifies an over-the-air interface between a wireless client and a base station or between two wireless clients and provides 1 or 2 Mbps transmission in the 2.4 GHz band using either frequency hopping spread spectrum (FHSS) or direct sequence spread spectrum (DSSS).

**802.11b:** An extension to 802.11 that applies to Wireless LANs (WLAN) and provides 11 Mbps transmission (with a fallback to 5.5, 2 and 1 Mbps) in the 2.4 GHz band. 802.11b uses only DSSS. Throughput data rate is 5+ Mbps in the 2.4 GHz band.

**802.11g:** An extension to 802.11 that applies to Wireless LANs (WLAN) and provides 54 Mbps transmission (with a fallback to 1, 2, 5.5, 6, 9, 11, 12, 24, 36, and 48 Mbps) in the 2.4 GHz band. 802.11g uses Orthogonal Frequency Division Multiplexing (OFDM). Throughput data rate is 11+ Mbps in the 2.4 GHz band.

**900 MHz:** A bridge system that can provide wireless speeds up to 150 megabits/second through wall and dense foliage. A non line of sight links up to 18 miles.

**Access Point:** An Access Point (AP) is stand-alone wireless hub that allows any computer that has a wireless network adapter to communicate with another computer and to connect to the Internet.

**Client computer:** The computer that gets its Internet connection by sharing either the host computer's connection or the Access Point's connection.

**Expansion Kit:** A kit that includes additional auxiliaries to an existing Personality Kit. Requires a Load Center for each Expansion Kit.

**Feature Circuits:** Programmable circuits that can control non-high voltage circuits, and valve actuators.

**Freeze Protection:** A circuit with freeze protection circulates water to protect pipes from freezing, if the outdoor air temperature sensor detects the temperature is getting close to freezing (below 36° F). When active "Freeze Protect Active" displays on the Home screen.

**Gigahertz (GHz):** A unit of frequency equal to 1,000,000,000 cycles per second.

**High Voltage Compartment:** Large lower right compartment of Load Center for all high voltage wiring including circuit breakers, relays, and GFCI.

**Host computer:** The computer that is directly connected to the Internet using a modem or network adapter.

**Hybrid Heater: UltraTemp ETi Hybrid Pool Heater by Pentair:** Combines a pool heat pump and an ultra-high-efficiency, gas-fired heater in the same unit. Eco-friendly pool heater that delivers superior energy savings.

**Indoor Control Panel:** The IntelliCenter® Control System color touch LCD screen is wired to the Personality board in the Power/Load Center. The control panel can be wall mounted inside a house. **Note: A maximum of two Indoor Control Panels can be connected to the IntelliCenter Personality board.**

**iS4:** Four function Spa-Side remote. Can be spa wall or deck mounted.

**iS10/SpaCommand:** Up to ten function spa-side remote with temperature changing capability. Can be spa wall or deck mounted.

## Glossary (continued)

**Internet Protocol (IP) address:** The address of a computer that is attached to a network. Part of the address designates which network the computer is on, and the other part represents the host identification.

**LAN:** A Local Area Network (LAN) is a high-speed, low-error data network covering a relatively small geographic area.

**Load Center:** Metal enclosure with power relays, transformer, and circuit breakers. The Load Center is installed before to Personality Kit installation. Used for distributing power for controlling IntelliTouch® Control Systems. Also known as the “sub-panel.”

**Low Voltage Compartment:** Top compartment of Load Center for all low voltage wiring.

**Low Voltage Raceway:** Vertical space in the left side of Power/Load Center for low voltage cabling.

**Megabits-per-second ( Mbps):** Transmission speed of 1,000,000 bits per second.

**Megahertz (MHz):** A unit of frequency equal to 1,000,000 cycles per second.

**Wireless Controller:** Wireless controller for IntelliCenter® Control Systems with all the functionality of the Indoor Control Panel.

**Outdoor Control Panel:** LCD color touch control panel with flexible hinge is installed in upper portion of Power/Load Center and connected to the main circuit board (iS5).

**Over-The-Air (OTA):** The IntelliCenter Control System can receive software updates via your home wireless router. Software updates will automatically occur to Indoor and outdoor control panel, wireless remote and Expansion panels in background while the system is operating.

**Personality Board:** The circuit board mounted on top of the Outdoor Control Panel motherboard. The Personality board defines the system capabilities.

**Personality Kit:** Set of parts to define the capability of a system; may include: Outdoor Control Panel, temperature sensors, actuators, and additional relays.

**Power Center:** Same as Load Center with the exception of the circuit breaker base.

**Relay Circuits:** The circuits that control the relays on the Personality Board. Connectors on top edge of the circuit board.

**RF:** Radio Frequency.

**Screw Terminal Connector:** Removable connector that may attach to circuit board with multiple sockets (anywhere from 2 to 12) to receive wires from controllers and sensors; wires held by screw terminals; multiple wires of a small enough gauge (usually 22 AWG) may be coupled to a single socket of a terminal connector.

**Transceiver:** Circuit board with attached 900 MGz antenna that can send and receive radio frequency (wireless) transmissions.

**Wi-Fi:** Wireless Fidelity is meant to be used generically when referring of any type of 802.11 network, whether 802.11b, 802.11g, 802.11a. Wi-Fi is a seal of approval from the Wireless Ethernet Compatibility Alliance (WECA).

**WLAN:** Wireless Local Area Network is a type of local-area network that uses high-frequency radio waves rather than wires to communicate between nodes.

## NOTES

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