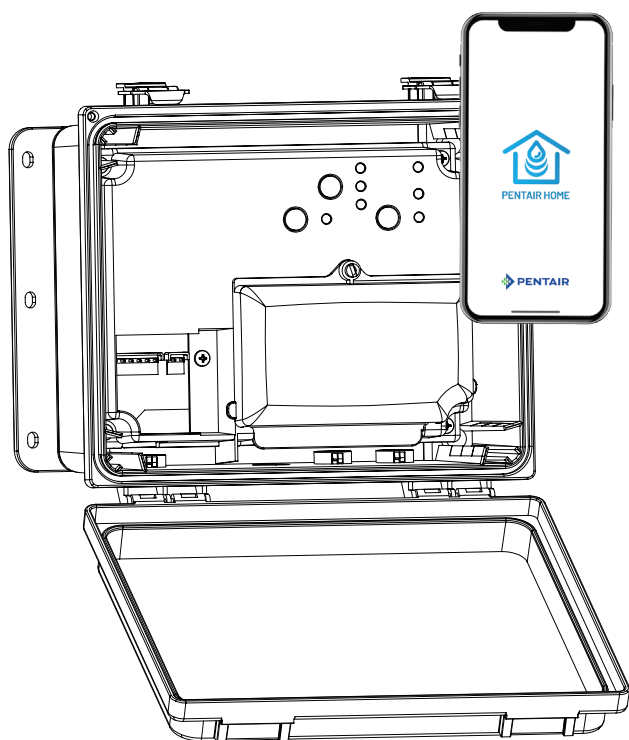




PENTAIR HOME

FOR INTELLICONNECT CONTROL SYSTEM



Download Pentair Home from
Google Play® store (Android®)
or Apple® app store (iOS®).

USER'S GUIDE

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS



IMPORTANT NOTICE

This guide provides installation and operation instructions for this pump. Consult Pentair with any questions regarding this equipment.

Attention Installer: This guide contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment after installation or left on or near the equipment.

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

READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS



This is the safety alert symbol. When you see this symbol on your system or in this manual, look for one of the following signal words and be alert to the potential for personal injury.

DANGER

Warns about hazards that can cause death, serious personal injury, or major property damage if ignored.

WARNING

Warns about hazards that may cause death, serious personal injury, or major property damage if ignored.

CAUTION

Warns about hazards that may or can cause minor personal injury or property damage if ignored.

NOTE

Indicates special instructions not related to hazards.

Carefully read and follow all safety instructions in this manual and on equipment. Keep safety labels in good condition; replace if missing or damaged.

DANGER SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS PRODUCT (UNIT) IS NOT INSTALLED AND USED CORRECTLY.

DANGER INSTALLERS, POOL OPERATORS AND POOL OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THIS PRODUCT. This Guide provides installation and operation instructions for the product. Consult Pentair with any questions regarding this product.

WARNING This product is intended for use in swimming pool applications only.

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

WARNING A pool or spa pump must be installed by a qualified pool and spa service professional in accordance with the current National Electrical Code and all applicable local codes and ordinances. Improper installation may 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.

DANGER



RISK OF ELECTRICAL SHOCK OR ELECTROCUTION!

Always disconnect power at the circuit breaker before servicing the enclosure or equipment connected to the enclosure.

Improper installation can create an electrical shock hazard that can result in death or serious injury.

This product must be installed by a licensed or certified electrician or a qualified pool professional in accordance with the current 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.

DANGER



Water temperature in excess of 100°F (37.7°C) may be hazardous to your health. Prolonged immersion in hot water may induce hypothermia. Hypothermia occurs when the internal temperature of the body reaches a level several degrees above normal body temperature of 98.6°F (37°C).

Effects of hypothermia include: (1) Unawareness of impending danger. (2) Failure to perceive heat. (3) Failure to recognize the need to leave the spa. (4) Physical inability to exit the spa. (5) Fetal damage in pregnant women. (6) Unconsciousness resulting in danger of drowning. The use of alcohol, drugs, or medication can greatly increase the risk of fatal hypothermia in hot tubs and spas.

WARNING

The use of alcohol, drugs, or medication can greatly increase the risk of fatal hypothermia in hot tubs and spas.

WARNING

Do not use this product to control an automatic pool cover. Swimmers may become entrapped underneath the cover.

WARNING

For units intended for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5 ft. (1.5 m) away, adjacent to, and within sight of, the unit.

WARNING

Except for listed spa-side remote controls, install a minimum of 5 ft. (1.5 m) from the inside wall of the pool and spa.

WARNING

The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with the current 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.

WARNING

Use only copper supply conductor's rated for 60C/75C sized based on ampacity to support all loads (refer to NEC tables).

IMPORTANT SAFETY INSTRUCTIONS

CAUTION



For Installation of Electrical Controls at Equipment Pad (ON/OFF Switches, Timers and Automation Load Center)

Install all electrical controls at equipment pad, such as on/off switches, timers, and control systems, etc. to allow the operation (startup, shut-down, or servicing) of any pump or filter so the user does

not place any portion of his/her body over or near the pump strainer lid, filter lid or valve closures. This installation should allow the user enough space to stand clear of the filter and pump during system start-up, shut down or servicing of the system filter.

General Installation Information

1. All work must be performed by a licensed electrician or qualified pool professional, and must conform to all national, state, and local codes.
2. Install to provide drainage of compartment for electrical components.
3. This equipment is not provided with integral Ground Fault Circuit Interrupters (GFCI) protection. When this equipment is used to power or switch an underwater luminaire, suitable GFCI protection shall be provided in the field. Luminaire circuit conductors shall not occupy the conduit, boxes or enclosures with other circuits unless the other circuits are also GFCI protected.
4. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with in accordance with the current 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. The disconnecting means must be readily accessible to the tub occupant but installed at least 10 ft. (3.05 m) from the inside wall of the pool.

For information about the Virginia Graeme Baker Pool and Spa Safety Act, contact the Consumer Product Safety Commission at (301) 504-7908 or visit www.cpsc.gov.

NOTE: Always turn off all power to the pool pump before installing the cover or working on any suction outlet.

RF Exposure Requirements: The antenna(s) used for this device must be installed to provide a separation distance of at least 7.0 inches (20 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. L'antenne (s) utilisé pour cet appareil doit être installé pour fournir une distance de séparation d'au moins (20 cm) à partir de toutes les personnes et ne doit pas être co-localisés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

FCC Regulatory Notice - 47 CFR Part 15, Subpart C.

Instruction To User - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada (IC) Regulatory Notice – RSS210:

Instruction To User - This device complies with RSS210 of Industry Canada. (1999). Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CUSTOMER SERVICE / TECHNICAL SUPPORT

If you have questions about ordering Pentair replacement parts, and pool products, please contact:

Customer Service and Technical Support, USA
(8 A.M. to 4:30 P.M. — Eastern/Pacific Times)
Phone: (800) 831-7133
Fax: (800) 284-4151

Web site
Visit www.pentair.com for more information about our products.

Sanford, North Carolina (8 A.M. to 5 P.M. ET)
Phone: (919) 566-8000
Fax: (919) 566-8920

Moorpark, California (8 A.M. to 5:30 P.M. PT)
Phone: (805) 553-5000 (Ext. 5591)
Fax: (805) 553-5515

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INTRODUCTION TO PENTAIR HOME

IntelliConnect and the Pentair Home app offer a perfect solution for remotely monitoring and controlling your pool equipment from the comfort of home.

The following guide provides instructions on how to operate and monitor connected devices and equipment that are part of your filtration system via your smartphone or computer using the Pentair Home app.

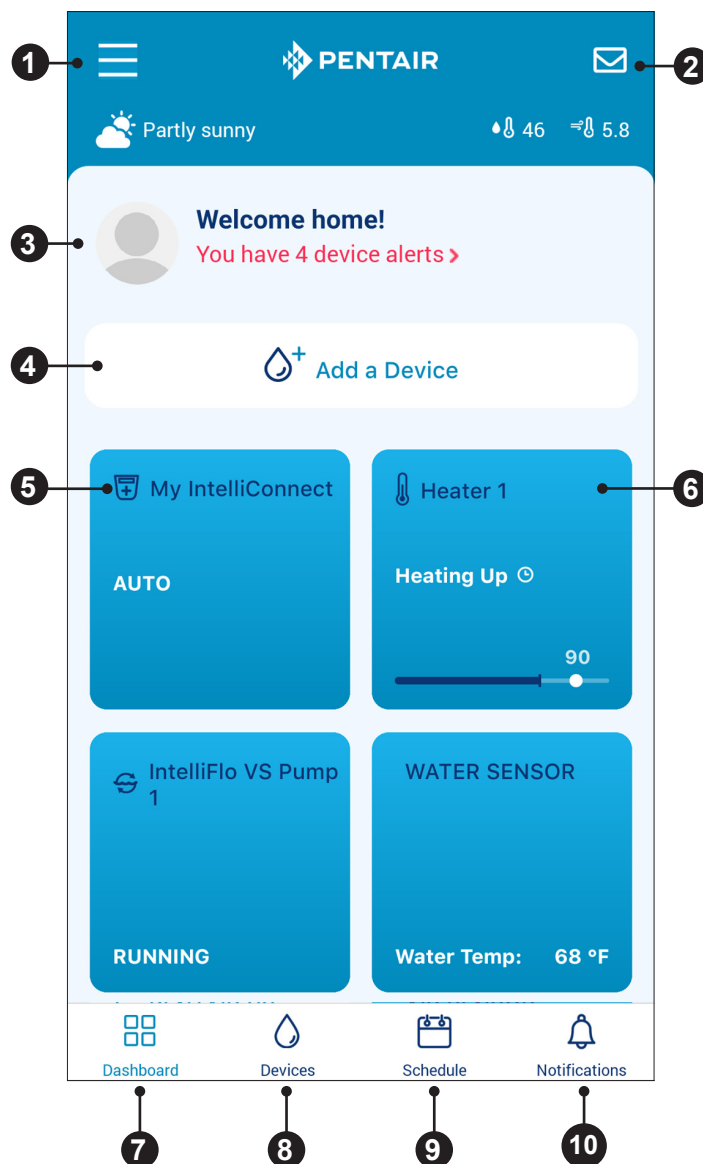
The following instructions assume that your WiFi router, IntelliConnect and the Pentair Home app have already been successfully paired. If this is not the case, refer to the pairing instructions in the *IntelliConnect Installation Guide (P/N 523338)* provided with your IntelliConnect.

Home Dashboard

From the Home Dashboard you can remotely monitor and control connected equipment. Press a specific equipment tab to display controls. From any other screen, press the Dashboard Icon [7] to return to the Home Dashboard.

After the IntelliConnect has been paired to your Pentair Home account, the IntelliConnect Dashboard can be accessed by pressing the IntelliConnect tab [5]. For an overview of the IntelliConnect Dashboard refer to *IntelliConnect Dashboard, page 3*.

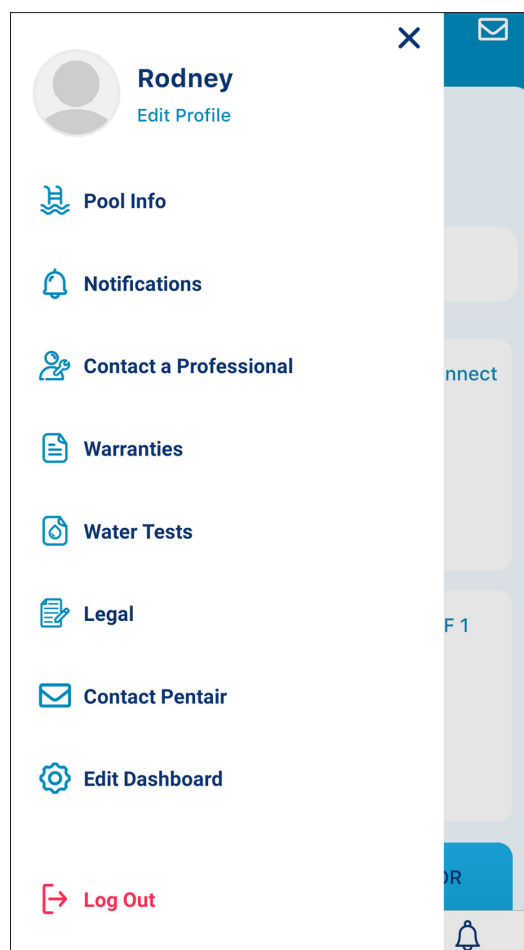
- 1- **Dashboard Settings:** Press to open the Home Dashboard Settings screen.
Refer to *Home Dashboard Settings, page 2*.
- 2- **Contact Pentair:** Press to open the Contact Pentair screen.
Send a message to Pentair general or device support, or report bugs within the app.
- 3- **System Status/Alerts:** Displays current system alerts. Press to open a list of alerts.
- 4- **Add a Device:** Press to open the Add a Device screen.
Choose a specific piece of equipment to link to your Pentair Home account.
- 5- **IntelliConnect Tab:** Displays current IntelliConnect operation mode.
Press to open the IntelliConnect Dashboard. Refer to *IntelliConnect Dashboard, page 3* for more information.
- 6- **Equipment Tabs:** Displays individual equipment status (pump, heater, salt chlorinator, etc.).
Press a specific tab to open its Equipment Settings screen.
- 7- **Dashboard Icon:** Press to return to Home Dashboard from any screen.
- 8- **Devices Icon:** Press to open the Devices screen.
View all connected devices and equipment.
Press an equipment tab to open its Settings screen.
- 9- **Schedules Icon:** Press to open the Schedules calendar.
Displays active schedules for connected equipment.
- 10- **Notifications Icon:** Press to open the Alerts screen.
Displays past and present system alerts.



Home Dashboard Settings

Home Dashboard Settings can be accessed by pressing the Dashboard Settings icon (≡) in the top-left of the Home Dashboard screen (refer to *Home Dashboard, page 1*).

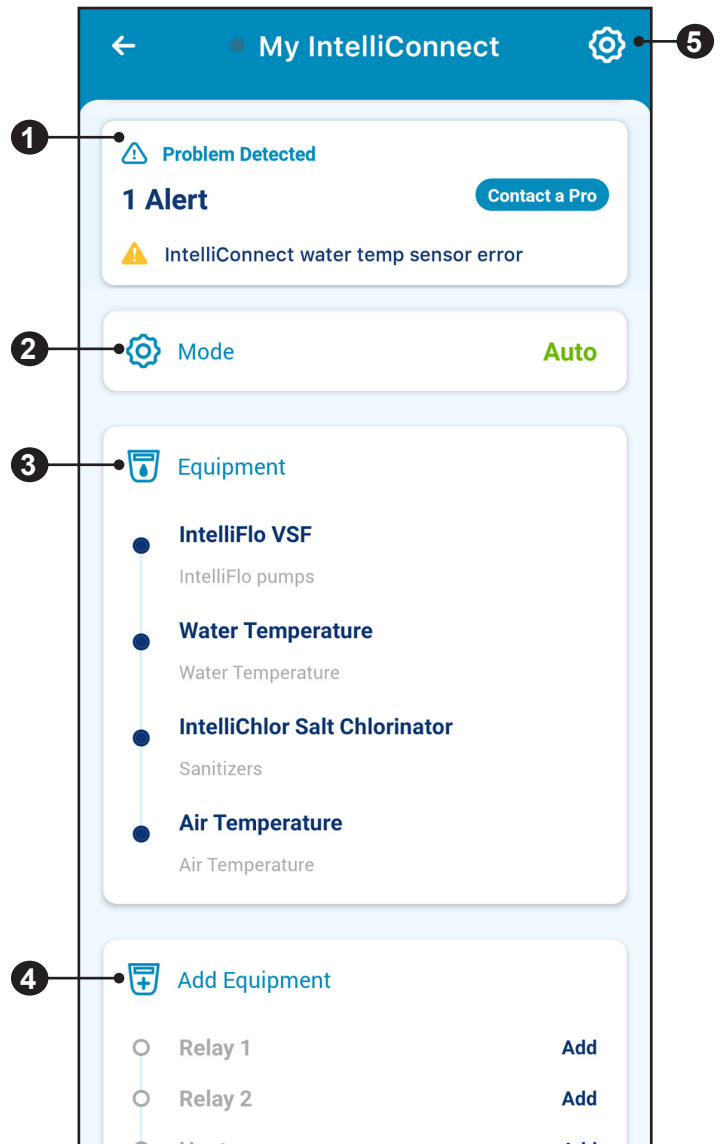
- 1– Edit Profile:** View and edit profile information.
Update your primary address, email, account password, displayed measurement units and other user information.
- 2– Pool Info:** View and edit information about the pools tied to your Pentair Home account.
Select a particular pool to view or edit information such as pool type, nickname, volume and address. A pool can also be removed from or added to your account from this screen.
- 3– Notifications:** Select a particular device or system component to control where and how its notifications are delivered.
- 4– Contact a Professional:** Contact a professional about a specific connected device or system component.
- 5– Warranties:** View a connected device or system component's product support page.
- 6– Water Tests:** Order Pentair manual water test kits.
- 7– Legal:** View the latest Pentair Privacy Notice and Terms of Service Agreement.
- 8– Contact Pentair:** Send a message to Pentair general or device support, or report bugs within the app.
- 9– Edit Dashboard:** Choose which pieces of connected equipment are displayed on the Home Dashboard and in what order.
- 10–Log Out:** Log out of the Pentair Home app. Equipment notifications and alerts will not be sent to your smart device until you sign back into Pentair Home.



IntelliConnect Dashboard

The IntelliConnect Dashboard is the home screen for your IntelliConnect Control System. From the IntelliConnect Dashboard you can; view system status and alerts, access your connected equipment screens and connect new equipment to your IntelliConnect.

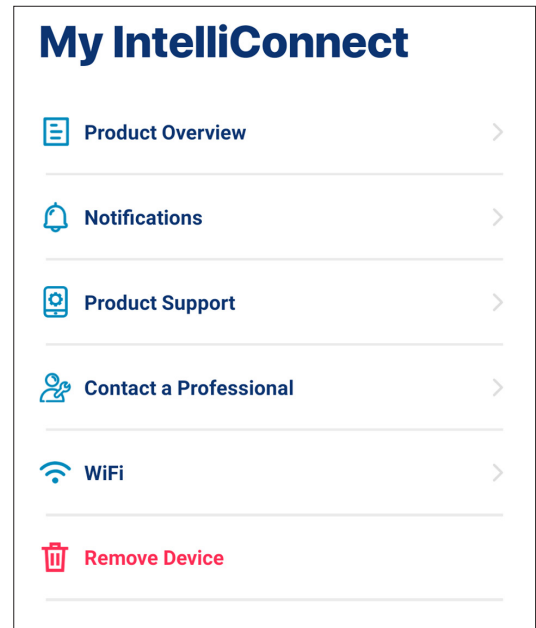
- 1- **Alerts:** Displays system alerts, errors and reminders when applicable.
- 2- **Mode Tab:** Displays current IntelliConnect operation mode.
 - **AUTO:** Remote control via app is allowed
 - **SERVICE:** Remote control via app is prevented
 - **TIMEOUT:** Remote control via app is prevented for 3 hours
- 3- **Connected Equipment:** Displays equipment currently connected to IntelliConnect. Press a specific tab to open its Settings screen. Refer to the programming sections for information on programming specific equipment.
- 4- **Add Equipment:** Displays equipment that can be added, as well as open IntelliConnect relays that can be programmed. Press ADD to the right of a piece of equipment to Add Equipment.
- 5- **IntelliConnect Settings:** Opens the IntelliConnect Settings screen. This screen displays information about your IntelliConnect, product support, notification settings and WiFi strength. Refer to *IntelliConnect/Device Settings, page 4* for more info.



IntelliConnect/Device Settings

Device Settings can be accessed by pressing the Device Settings icon (⚙️) in the top-right of the IntelliConnect Dashboard (refer to *IntelliConnect Dashboard*, page 3).

- 1- **Product Overview:** View and edit general information (software versions, device nickname, installed relay devices, etc.) about your IntelliConnect.
- 2- **Notifications:** Control where and how device notifications are delivered.
- 3- **Product Support:** Opens the IntelliConnect Support page.
- 4- **Contact a Professional:** Use your address to find and a local pool professional. Search results will contain all local pool professionals.
- 5- **WiFi:** View and update the WiFi network your IntelliConnect is paired to, as well as the last recorded signal strength.
- 6- **Remove Device:** Remove a device from your Pentair Home account. Refer to *Removing Connected Equipment*, page 8.

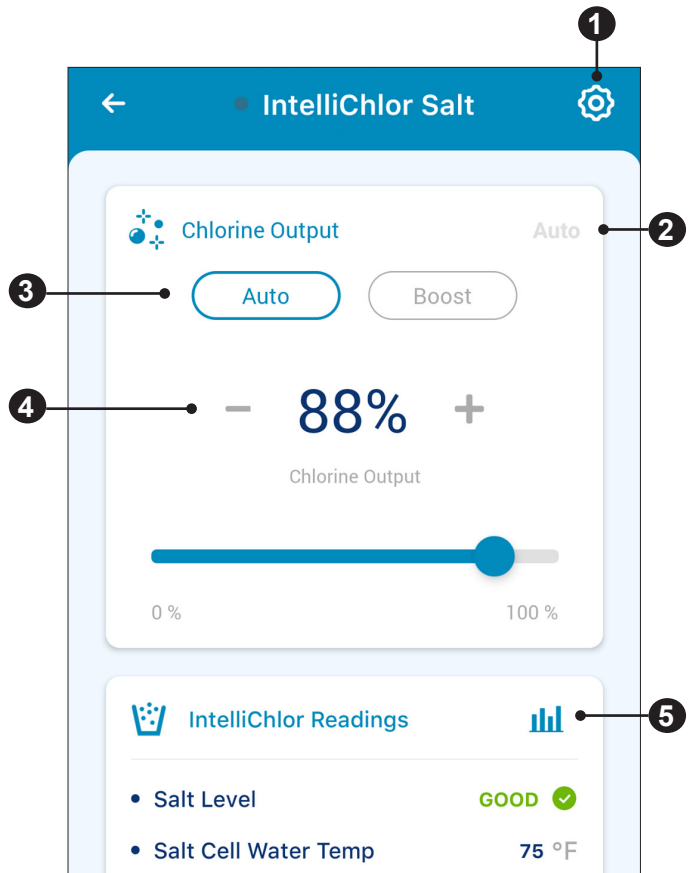


Salt Chlorine Generator Programming

An IntelliChlor or iChlor Salt Chlorine Generator can be controlled and programmed from the Salt Chlorine Generator screen.

The Pentair Home app also monitors and displays several pool water parameters, such as real-time pool salinity and water temperature.

- 1- **Generator Settings:** View general information about your Salt Chlorine Generator or edit Pump Override settings.
- 2- **Current Status:** Displays the current equipment state.
- 3- **Auto/Boost Tabs:** Press AUTO or BOOST to operate the chlorinator in Auto Mode or Boost Mode (defined above).
- 4- **Chlorine Output Percentage:** Set the percentage, based on the chlorinator's maximum output capability, that you would like the chlorinator to maintain while operating in AUTO mode. In BOOST mode this percentage will always default to 100%.
- 5- **IntelliChlor Readings:** Press the graph icon to view a history of salt level readings.
- 6- **Boost Timer (not shown):** Displays the remaining run time of a BOOST mode cycle. Press the Boost Mode Timer tab to set a duration.



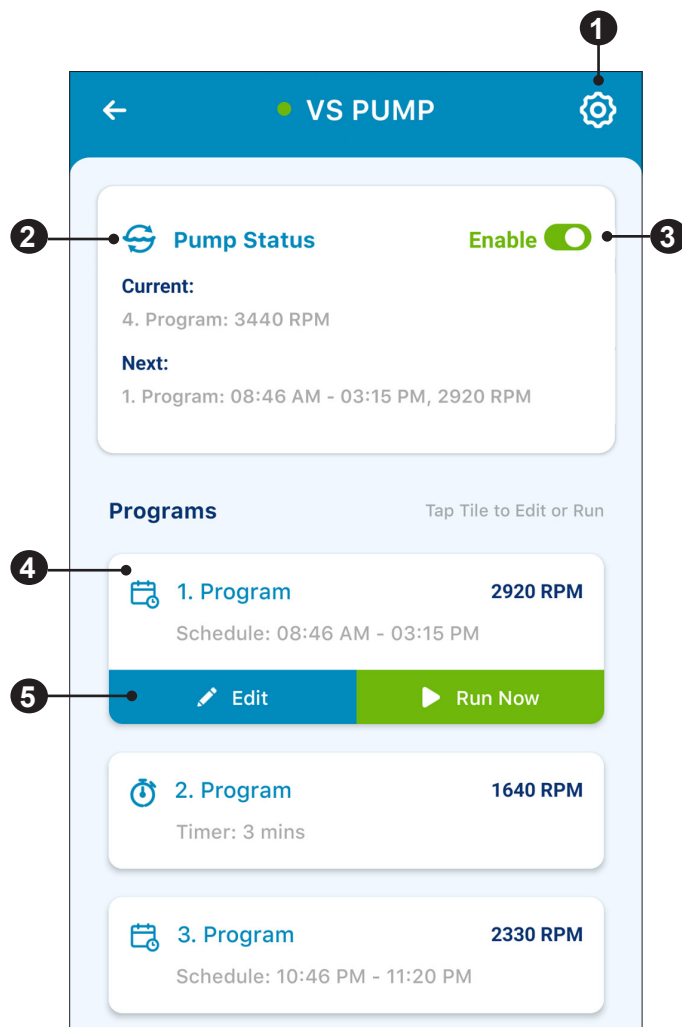
IntelliFlo Programming

Programs 1-4 of an IntelliFlo pump can be controlled and programmed from the IntelliFlo screen (**Figure 2**).

Each Program can be set in one of three modes:

- **MANUAL:** A manual program must be manually started and stopped from the IntelliFlo Screen. The program will not repeat and will run until another Schedule program is activated.
- **TIMER:** A timer program must be manually started from the IntelliFlo screen, but will automatically stop at the end of its set duration. The program will not repeat and will only run for its set duration.
- **SCHEDULE:** A schedule program will automatically start and stop based on its programmed start time and end time. The program will repeat at the same time each day.

- 1- Pump Settings:** View general information about your IntelliFlo pump or edit the Freeze Protection and Pump Override settings.
- 2- Pump Status:** Displays the current pump status.
 - **CURRENT:** The pump is not currently running a program.
 - **NEXT:** Displays the program currently running.
- 3- Enabled/Disabled Toggle:** Press to enable or disable your pump.
A DISABLED pump will not start until this toggle is switched to ENABLED or the pump ON/STOP button is pressed.
- 4- Program Tabs:** Displays a Program's programmed mode, runtimes and speed.
Press a Program Tab to display its EDIT and RUN NOW tabs.
- 5- Edit/Run Now Tabs:** Set the speed and operation mode for a chosen program.
 - **EDIT:** Press to open the Program Setup screen for a particular program.
 - **RUN NOW:** Press to manually start a set Program.



Heater Programming

Pentair heaters wired to the IntelliConnect can be controlled and programmed from the Heater screen. The connected heater can be programmed in one of three modes: Manual, Timer or Schedule.

IMPORTANT: Before programming your heater via the Pentair Home app, ensure the set point at the heater control panel is programmed to your highest desired temperature.

For example, if the heater's control panel set point is 78°F and the app's heater set point is 80°F, the heater will only heat to 78°F.

Note: The filter pump must be Enabled and running in order to heat a pool.

Heater Cooldown Periods

Five minutes before the end of a filtration cycle or timer, the heater will turn off and enter a five minute cooldown period. The heater will be in lockout mode and cannot be reactivated until the end of the cooldown period.

Note: Attempting to stop the filter pump while the heater is running will stop the heater. The pump will then enter a five minute cooldown before stopping.

1- Heater Settings: View general information about your heater or edit the Pump Override settings.

2- Mode Selection: Displays the current heater state.

- **MANUAL:** The heater must be manually started from the Heater Screen. The heater will run until the desired temperature is reached, then return to Auto mode.
- **TIMER:** The heater must be manually started from the Heater Timer screen by pressing RUN TIMER and will shut off at the end of the timer duration. The timer setting will not repeat and will only run for its set duration.
- **SCHEDULE:** The heater will attempt to maintain the programmed set point between the programmed start date/time and the end date/time. The heater will only maintain the set point when the filter pump is running.

3- On/Off Toggle: Activate or deactivate the heater.

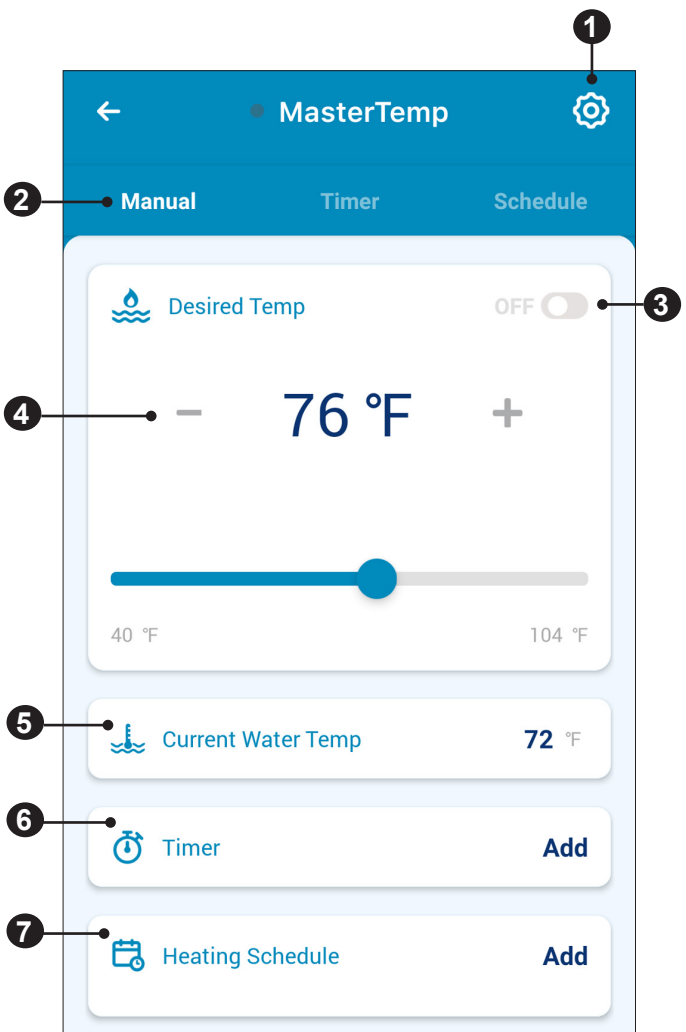
4- Desired Temperature Set Point: Set the desired water temperature.

5- Current Water Temperature: Displays the current water temperature based on water temperature sensor (sold separately) readings.

Note: Readings may be inaccurate when the filter pump is not running.

6- Timer Mode Program: Displays the remaining duration of a programmed Timer mode cycle. Press ADD to program a timer mode cycle.

7- Schedule Mode Program: Displays information about active Schedule mode cycles. Press ADD to program a heating schedule.



Air and Water Temperature Sensors

Connecting a water and/or air temperature sensor to IntelliConnect is required for control of heaters.

Accessing the Air or Temperature Sensor screens from the IntelliConnect Dashboard will display current readings, as well as historical readings.

Relay Programming

IntelliConnect includes two high voltage relays for connecting equipment. Once equipment has been wired to a high voltage relay, it can be controlled via the Pentair Home app.

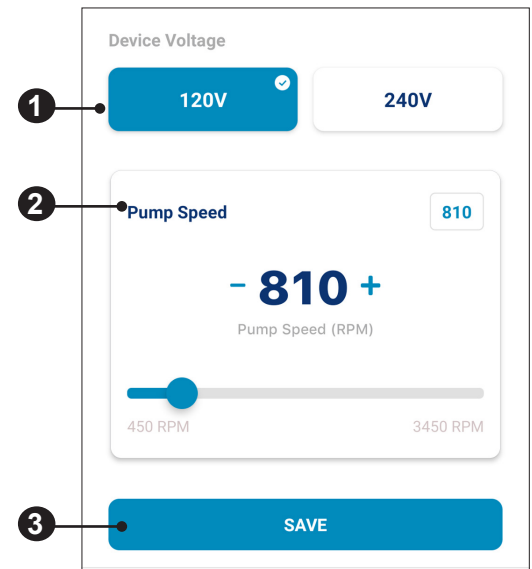
Equipment that can be wired to IntelliConnect relays include; Booster Pumps, Color and White Lights, Single Speed Pumps and other flow dependent or non-flow dependent equipment.

Adding a Booster Pump or Other Flow-Dependent Equipment

Designating a relay as a “Booster Pump” or “Other (Flow-Dependent)” will ensure the filter pump is activated two minutes before the relay is activated; ensuring flow during relay operation.

When assigning a Booster Pump or Other Flow-Dependent equipment to an IntelliConnect relay:

- 1- **Device Voltage:** Select the voltage of the equipment connected to the particular relay.
- 2- **Pump Speed:** Set the speed the filter pump will run when the relay is activated.
- 3- **Save:** Press to save edits made at the relay screen. If you leave this page without saving all edits will be lost.



Adding a Light, Single Speed Pump or Other Non-Flow-Dependent Equipment

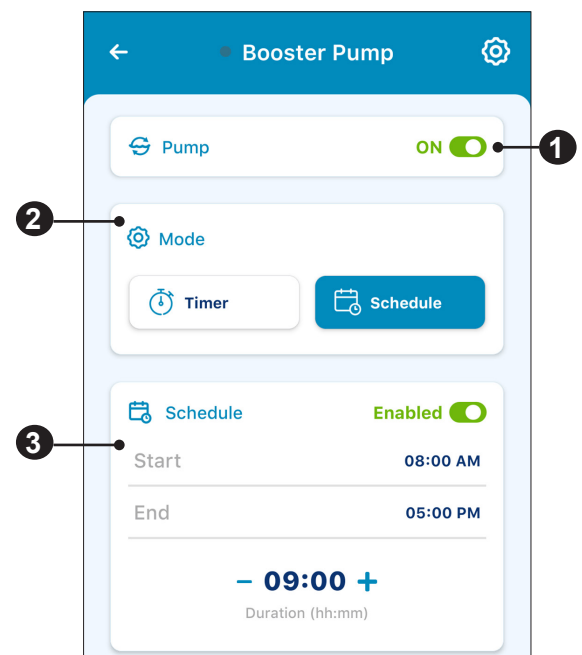
When assigning a Light, Single Speed Pump or Other Non-Flow-Dependent equipment to an IntelliConnect relay:

- 1- **Device Voltage:** Select the voltage of the equipment connected to the particular relay.
Note: When adding a color light device voltage will not be set.
- 2- **Save:** Press to save edits made at the relay screen. If you leave this page without saving all edits will be lost.

Programming a Relay Device

Each relay features a screen similar to that shown below. To add or program a relay, refer to the descriptions below.

- 1- **On/Off Toggle:** Press to enable or disable the relay.
If OFF, the relay will not start until this toggle is switched to ON.
- 2- **Mode Selection:** Choose whether you want to program the relay in Timer or Schedule mode.
 - **TIMER:** A timer program must be manually started from the Relay screen, but will automatically stop at the end of its set duration. The program will not repeat and will only run for its set duration.
 - **SCHEDULE:** A schedule program will automatically start and stop based on its programmed start time and end time. The program will repeat at the same time each day.
- 3- **Schedule/Timer:**
 - **TIMER:** If in Timer Mode, a timer setting will display. Press EDIT to program the Timer duration, or RUN NOW to manually start the relay. The program will not repeat and will only run for its set duration.
 - **SCHEDULE:** If in Schedule Mode, a schedule setting will display. Press the Start and End time to program these settings.
If the Enabled/Disabled toggle is ENABLED the program will repeat at the same time each day and for the set time of day.



Freeze Protection Mode

In areas that experience a short period of freezing temperatures, Freeze Protection Mode should be activated by sliding the Freeze Protection Mode toggle to the ON position.

Note: Freeze Protection Mode settings can be accessed from Pump Settings. Refer to *IntelliFlo Programming, page 5*.

A strong and stable wireless connection is required for properly syncing freeze protection, as IntelliConnect uses data from the internet based weather service and updates hourly.



WARNING If your wireless connection, internet or the weather service website is not working the IntelliConnect freeze protection feature will not function. Additional steps will be required to avoid property damage from freezing temperatures. Follow the instructions given in the pump and other equipment manuals to prevent freeze damage.

Freeze protection is designed to run the filter pump when air temperatures drop below the freeze protection set point for a short period of time. **Freeze Protection will not guarantee protection from damage to pool, equipment or property during extended periods of cold.**

Contact your local pool professional for additional information on pool winterization to protect property and equipment in extended cold temperatures.

Freeze Protection

Run the pump when the temperature drops below freezing

ON

Start Temperature

78



End Temperature

86



Pump Speed

- 1810 +

Pump Speed (RPM)

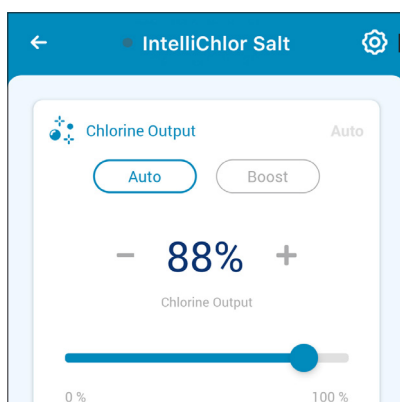


Removing Connected Equipment

Individual equipment Settings can be accessed by pressing the Settings icon in the top-right of any equipment screen.

At the bottom of the Settings screen, press REMOVE EQUIPMENT.

A dialogue box will appear asking you to verify removal of equipment from IntelliConnect. Press REMOVE to remove the equipment, or CANCEL to return to the Settings screen.



IntelliChlor Salt Chlorinator

Product Overview >

Notifications >

Product Support >

Contact a Professional >

Pump Overrides >

Remove Equipment

NOTES

NOTES

NOTES



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P/N 523325 REV. B 4/27/21