Instruction Manual



The standard in Spa Control.



Designed, Engineered & Manufactured in the USA.



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NEO 1500 SPA CONTROL SYSTEM

SAVE THIS MANUAL

PLEASE MAKE IT AVAILABLE TO ALL OTHER SPA USERS

MARNING! Qualified Technician Required for Service and Installation

BASIC INSTALLATION AND CONFIGURATION GUIDELINES

- Use minimum 6AWG copper conductors only.
- · Readily accessible disconnecting means to be provided at time of installation.
- Permanently connected power supply.
- Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (RCD) mounted at least 5' (1.52M) from the inside walls of the spa/hot tub and in line of sight from the equipment compartment.
- CSA enclosure: Type 2
- Refer to Wiring Diagram inside the cover of the control enclosure.
- Refer to Installation and Safety Instructions provided by the spa manufacturer.

WARNING! People with infectious diseases should not use a spa or hot tub.

WARNING! To avoid injury, exercise care when entering or exiting the spa or hot tub.

WARNING! Do not use a spa or hot tub immediately following strenuous exercise.

WARNING! Prolonged immersion in a spa or hot tub may be injurious to your health.

WARNING! Maintain water chemistry in accordance with the Manufacturers instructions.

WARNING! The equipment and controls shall be located not less than 1.5 meters horizontally from the spa or hot tub.

WARNING! GFCI OR RCD PROTECTION.

The Owner should test and reset the GFCI or RCD on a regular basis to verify its function.

CAUTION! CSA COMPLIANCE

- Test the ground fault circuit interrupter before each use of the spa.
- Read the instruction manual.
- Adequate drainage must be provided if the equipment is to be installed in a pit.
- For use only within an enclosure rated CSA Enclosure 3.
- Connect only to a circuit protected by a Class A ground fault circuit interrupter or residual current device.
- To ensure continued protection against shock hazard, use only identical replacement parts when servicing.
- Install a suitably rated suction guard to match the maximum flow rate marked.

WARNING!

- Water temperature in excess of 100°F may be injurious to your health.
- Disconnect the electric power before servicing. Keep access door closed.

ATTENTION! CSA CONFORMITÉ

- Toujours verifier l'efficacite du disjoncteur differentiel avant d'utiliser le bain.
- Lire la notice technique.
- Lorsque l'appareillage est installe dans une fosse, on doit assurer un drainage adequat.
- Employer uniquement a l'interieur d'une cloture CSA Enclosure 3.
- Connecter uniquement a un circuit protege par un disjoncteur differentiel de Class A.
- Afin d'assurer une protection permanente contre le danger de shock electrique, lors de l'entretien employer seulement des pieces de rechange identiques.
- Les prises d'aspiration doivent etre equipees de grilles convenant au debit maximal indique.

ADVERTISSEMENT!

- Des temperatures de l'eau superieures a 38°C peuvent presenter un danger pour la sante.
- Deconnecter du circuit d'alimentation electrique avant l'entretien. Garder la porte fermer.

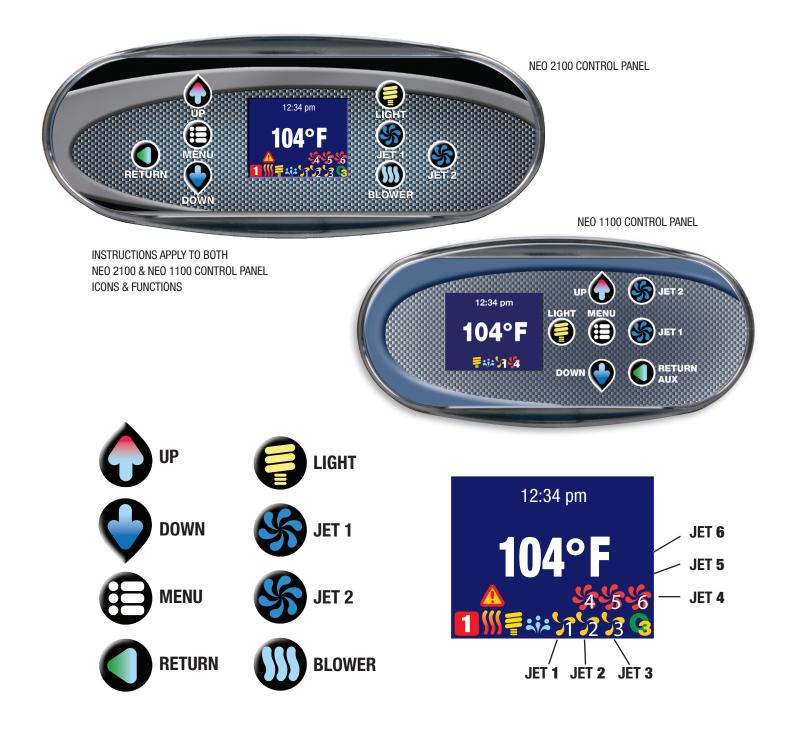
\Lambda WARNING! SHOCK HAZARD! NO USER SERVICEABLE PARTS.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

CAUTION! High voltage levels exist inside the control box and can cause injury or possibly electrocution. To prevent premature control failure do not hose down, flood or allow water to enter the control box.

WARRANTY

For product registration visit: www.waterwayplastics.com. For Warranty questions or claims please contact point of purchase.



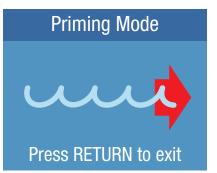
MAIN SCREEN:

The main screen displays current time, water temperature, and status of the system accessories. The screen below from bottom, left to right indicates LIGHT ON, BLOWER ON, JET 1 at low speed, and JET 2 at high speed.



PRIMING MODE:

When power is ON, the system will enter priming mode with 'Priming Mode' displayed on the panel. In this mode, all devices such as JETS, BLOWERS or LIGHTS are operable. JETS can be turned on and off to prime the pump. The System will exit Priming Mode and go to the MAIN display when the RETURN button is pushed, or after 4 minutes of inactivity.



SPA OPERATION:

Turn system accessories ON and OFF by pushing button on the right side of panel (LIGHT, JET 1, BLOWER, JET 2...) These accessories have timeout defaults from the manufacturer and will turn OFF automatically after the time has expired. Default Timeout time for LIGHT is 60 minutes; BLOWER is 15 minutes; JET at low speed is 60 minutes; and JET at high speed is 15 minutes. The User can change these default times in "DEVICE TIMEOUT" settings menu.

MENU NAVIGATING:

- MENU: use to enter Setting menu and sub-menu screens. For screens with several settable fields (example: DATE-TIME screen), use MENU to navigate between different fields within the screen.
- UP and DOWN: use to navigate between different options or changing values of a field.
- RETURN: use to confirm the setting and go back to previous screen.

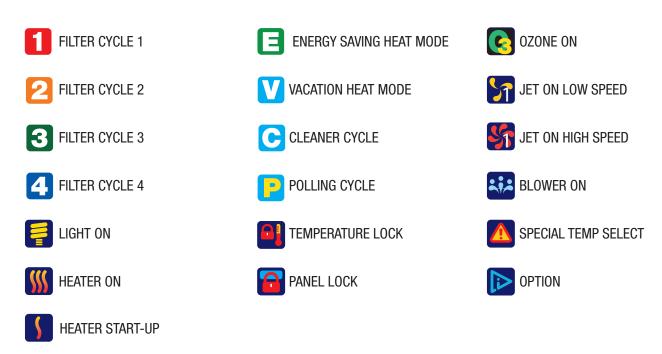
SET TEMPERATURE:

To change water Set Temperature, use UP and DOWN buttons to set the desired temperature. The screen will display "SET TEMP" with the current set temperature. After 5 seconds without change to the set temperature, the screen will go back to the MAIN screen with the current water temperature displayed. Changing the Set Temperature will turn on a pump so that the controller will be able to get an accurate water temperature and determine if the water needs to be heated. Set Temp **100°F**

HEATER:

When starting the heater, a pump turns on and the HEATER START-UP icon will appear. The Heater will turn on and HEATER icon will appear after 5 minutes

SELECTION ICONS:



PANEL TIMEOUT:

If a user is in Settings menu and no button is pushed within 15 seconds, the screen will timeout. The current screen setting will be lost and the panel will revert back to the MAIN screen. In MAIN screen, if no button is pushed within 60 minutes, all LED and LCD lights will turn off and the panel will go to sleep. Any button pushed will wake the panel, LED and LCD lights will turn back on and panel will Poll for water temperature.

ENTER SETTING SCREENS:

Press the MENU button to display a list of setup screens.

Use UP and DOWN to navigate between various setup screens.

Press MENU again to enter a particular setup screen or press RETURN to go back to MAIN screen.

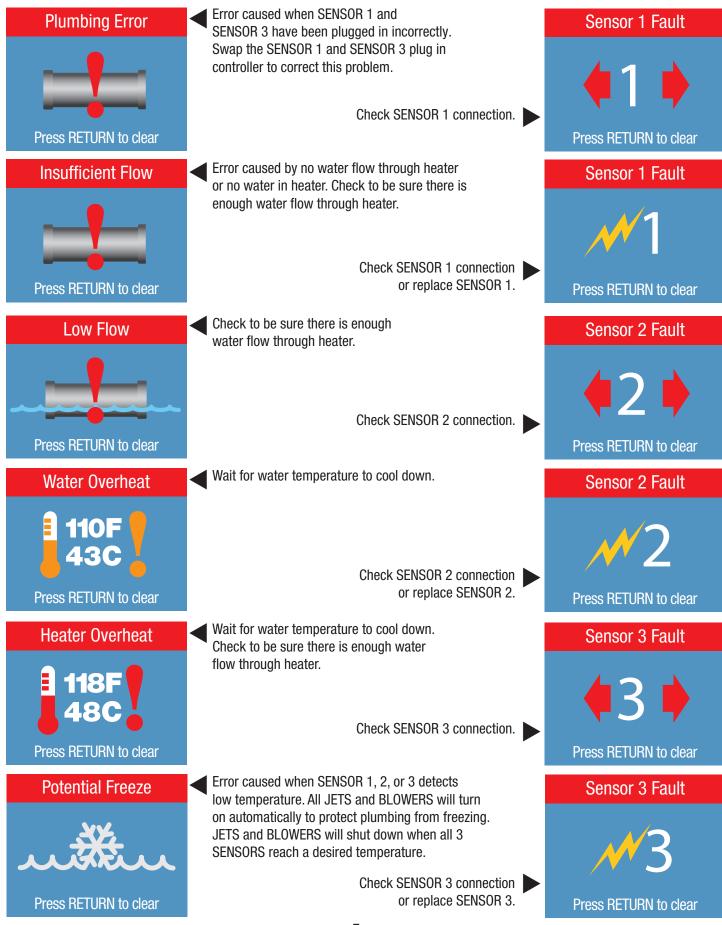
Rotate View Special Temp Heat Mode Filter Cycles Date-Time

Rotate View Special Temp Heat Mode Filter Cycles Date-Time

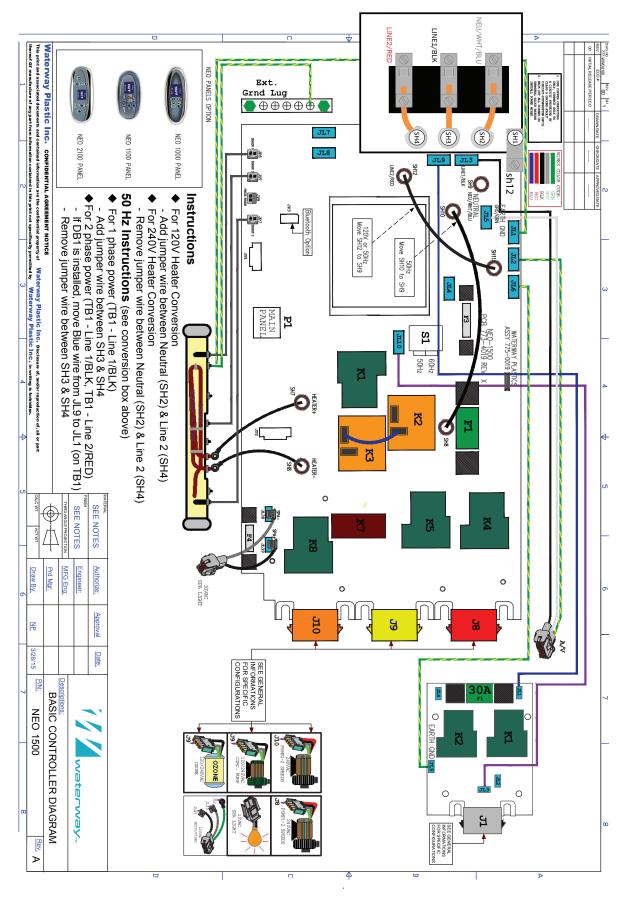
SETTINGS EXPLAINED:

- **ROTATE VIEW:** Rotate the view 180 degrees. The UP and DOWN buttons also swap when rotated. With ROTATE VIEW highlighted, press MENU to enter ROTATE VIEW setting. Use UP/DOWN to select desired setting and RETURN to confirm the setting and exit.
- SPECIAL TEMP: To temporarily heat spa to 105°F or 106°F once, and return to previous temperature setting. With SPECIAL TEMP highlighted, press MENU to enter SPECIAL TEMP setting. Use UP/DOWN to select the desired setting and RETURN to confirm the setting and exit.
- HEAT MODE: select STANDARD heating mode (polls every Energy Interval) for most users or ENERGY SAVING mode (polls every other Energy Interval) or VACATION mode (set temp set to 60°F). With mode highlighted, press MENU to enter setting. Use UP/DOWN to select the desired setting and RETURN to confirm the setting and exit.
- FILTER CYCLES: set up filter cycle START TIME, DURATION, and DATE for filtering the spa. For FILTER CYCLE 1 and 2, if DURATION is set to ZERO the system will do a purge cycle at the start time setting. With FILTER CYCLE highlighted, press MENU to enter FILTER CYCLE 1, 2, 3, or 4. Select a FILTER CYCLE and press MENU again to enter the TIME/DURATION setting screen. In this screen, press MENU to move between HOURS, MINUTES and DAYS; use UP/DOWN to change the values and RETURN to exit and confirm the setting. FILTER CYCLES 3 & 4 by default are OFF. To set them, enter START TIME, DURATION and enable ALL DAYS or a specific day for both FILTER CYCLES 3 & 4.
- DATE-TIME: set up Date and Time for the spa. With DATE-TIME highlighted, press MENU to enter the DATE-TIME setting. In this screen, pressing MENU will move and highlight various fields that can change the setting; UP/DOWN to change the values and RETURN to confirm the setting and exit.
- DEGREE F/C: displays spa temperature in Celsius or Fahrenheit. This option is only available for 60 Hz countries. Unit automatically displays Celsius for 50 Hz. With DEGREE F/C highlighted, press MENU to enter the DEGREE F/C setting. Use UP/ DOWN to select the desired setting and RETURN to confirm the setting and exit.
- **TIME DISPLAY:** displays spa time in AM/PM or 24 hour time. With TIME DISPLAY highlighted, press MENU to enter TIME DISPLAY setting. Use UP/DOWN to select the desired setting and RETURN to confirm the setting and exit.
- **DEVICES TIMEOUT:** allows changes to timeout setting for various devices. LIGHT can be set to a maximum of 4 hours; PUMP in high speed and BLOWER can be set to a maximum of 1 hour; and PUMP in low speed can be set to a maximum of 2 hours. With DEVICES TIMEOUT highlighted, press MENU to enter and select various devices setting. Use UP/DOWN to select the desired time setting and RETURN to confirm the setting and exit.
- PANEL LOCK: provides a choice to select PANEL LOCK for locking all panel buttons except MENU button; use TEMP LOCK to lock UP/DOWN button for changing set temperature; and MENU LOCK to lock MENU button (push and hold MENU button more than 15 seconds to unlock the Menu). With PANEL LOCK highlighted, press MENU to enter PANEL LOCK setting. Use UP/DOWN to select the desired setting and RETURN to confirm the setting and exit.
- NO HEAT TIME: set the time frame for not allowing the heater to turn on. With NO HEAT TIME highlighted, press MENU to enter the NO HEAT TIME setting. In this screen, pressing MENU will move and highlight various fields that can change the setting; use UP/DOWN to change the values and RETURN to confirm the setting and exit.
- SERVICE MODE: only available for Authorized Dealers and Spa Manufacturer.
- **DEMO MODE:** To demonstrate all device capabilities of the spa. With DEMO MODE highlighted, press MENU to enter MODE setting. Use UP/DOWN to select the desired setting and RETURN to confirm the setting and exit.
- **GENERAL INFORMATION:** Displays general information for the spa. With GENERAL INFORMATION highlighted, press MENU to enter the GENERAL INFORMATION menu. Use UP/DOWN to view different pages and information, press RETURN to exit the page. This screen will indicate which plug should be inserted to correct side connector.
- LANGUAGES: To select various languages for the spa display. With LANGUAGES highlighted, press MENU to enter and select a specific language. Use UP/DOWN to select the desired setting and RETURN to confirm the setting and exit.
- SERENITY MODE: Set to turn off all outputs and provide quiet while in the spa. With SERENITY MODE highlighted, press MENU to enter and select a specific time. Use UP/DOWN to select the desired time setting. Press MENU again to navigate to EXIT/START. Select the desired option and RETURN to confirm the setting and exit.
- ENERGY INTERVAL: Only available for Non-Circ systems. With ENERGY INTERVAL highlighted, press MENU to enter the ENERGY INTERVAL setting. Use UP/DOWN to select the desired minutes setting and RETURN to confirm the setting and exit.
- SILENT TIME (FUNCTIONS PAUSE): Only available for Non-Circ systems. Set the time frame for no polling during night or other desired periods. With SILENT TIME highlighted, press MENU to enter the SILENT TIME setting. In this screen, pressing MENU will move and highlight various fields that can change the setting; use UP/DOWN to change the values and RETURN to confirm the setting and exit.
- CLEANER CYCLE: Only available for Non-Circ systems. To turn on filtration after using the spa for short cleaning period. With CLEANER CYCLE highlighted, press MENU to enter and select a specific duration. Use UP/DOWN to select the desired time setting. Press Menu again to navigate to Exit/Start. Select the desired option and RETURN to confirm the setting and exit.
- **BLUETOOTH**: Only available with Bluetooth module in the system. To use the control panel and play music from mobile devices. With BLUETOOTH highlighted, press MENU to enter BLUETOOTH menu. In this screen, use UP/DOWN to select an option and MENU will execute or enter the selected option. Press RETURN to exit BLUETOOTH menu.
- **RESET WI-FI**: Only available with Wi-Fi module in the system. This is used to reset Wi-Fi module. With RESET Wi-Fi highlighted, press MENU to enter. Use UP/DOWN to select the desired setting and RETURN to confirm the setting and exit.

ERROR SCREENS:

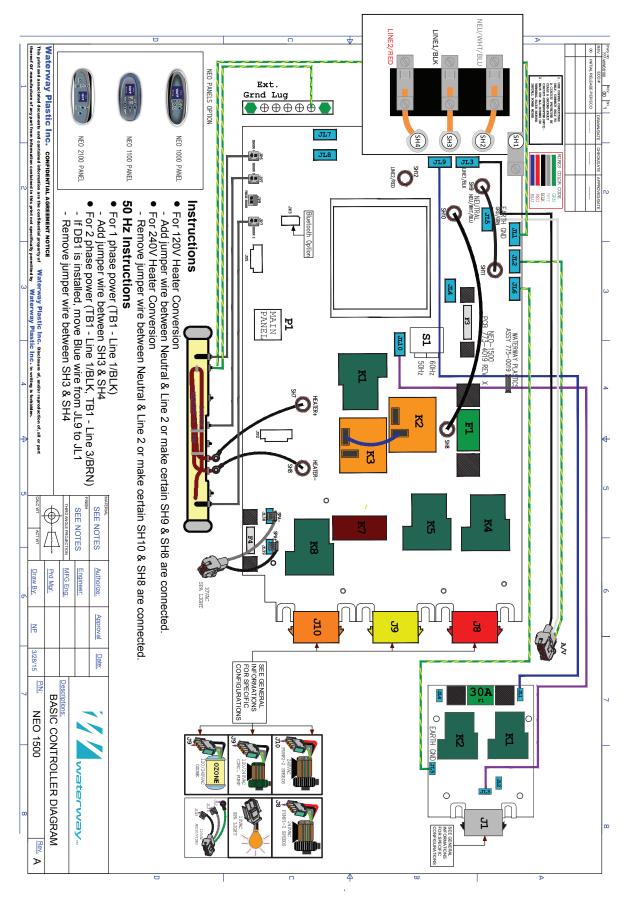


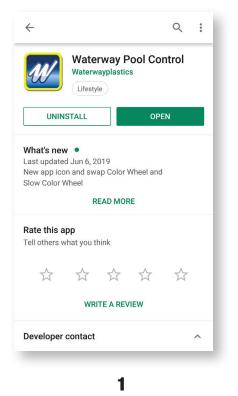
WIRING DIAGRAM: 50hz Conversion

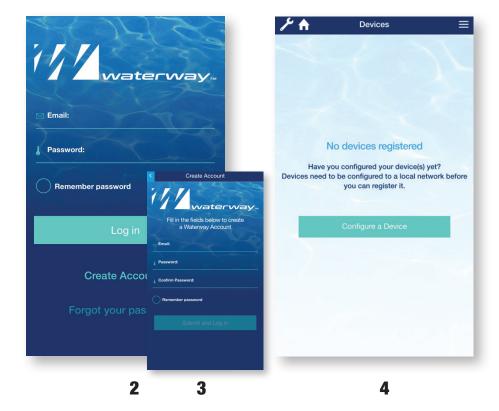


WIRING DIAGRAM:

For 120V Pump, Blower & Ozone & 120V/240V Heater

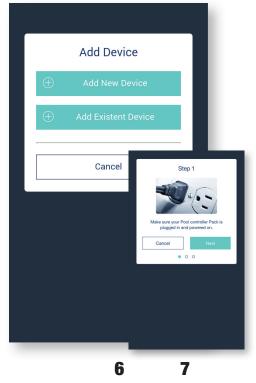












- **1.** Download and install the App from the App Store or Google Play.
- 2. Select Create Account.
- **3.** Enter your email address, password, confirm and submit.
- 4. Select Configure a Device.
- 5. Select NEO Spa Control.
- 6. Select Add New Device.
- 7. Make sure your NEO Spa Control is on and select **Next**.

🦨 🏫 Link Device to WiFi	≡
Device Name WATERW_2935 Mac Address 00:1E:C0:2B:29:35	
Select the Wi-Fi Network to connect your device	
ATT5v7T9w2	
ATT4600	
Charter2016	
NETGEAR19	
2WIRE382	
2WIRE053	
ATT372	
Enter Network Name Manually	

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- **8.** Go to your phone Settings, Wifi, and connect to the 'WaterW-xxxx' network.
- **9.** Return to the Waterway App and Select **Next**.
- **10.** Select your 2.4 Ghz home network from the list (if your network name is not listed, it can be entered manualy).
- **11.** Enter your home network password and select **Connect**.
- **12.** The device will configure and connect to your 2.4 Ghz home Wi-fi network. Name your spa and select 'OK'.
- **13.** Select the configured device to connect. i.e. MySpa.

TechSpaTony

SPA

10:50 AM

SPA SET TEMPERATURE

67°F

PANEL SETTINGS

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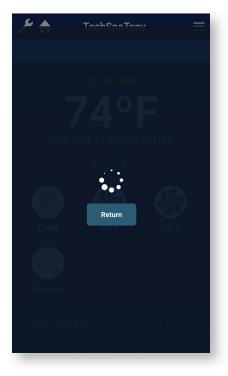
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Light

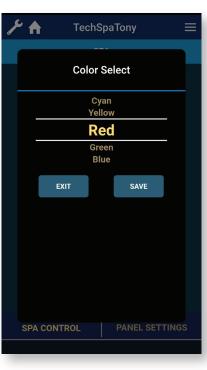
Blower

SPA CONTROL



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- **14.** The App is connecting to the device.
- **15.** The Spa Control screen is displayed.
- The Light, Jets, and Blower can be turned on and off. Select 'Spa Set Temperature' to adjust the set temp.
- **17.** Swipe up or down to adjust the temperature.

EXIT to go back or

SAVE to save the setting.

18. If a multicolor light is installed, select Light, then choose a color and **SAVE**.

Spa Information

Page 1, Configuration 13

EXIT

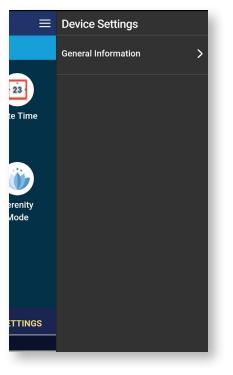
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Non-Circ System

Blower Ozone

Pump 1 - 2+ speeds Pump 2 - 2+ speeds

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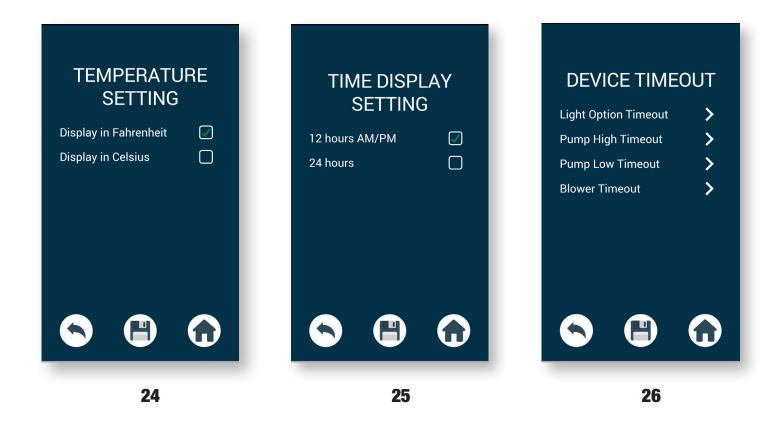
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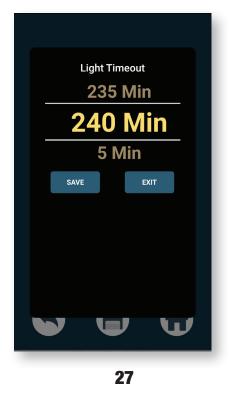
GENERAL SETTINGS	
Degree F/C	>
Time Display	>
Device Timeout	>
Water Temperature Check Time	>
6	0
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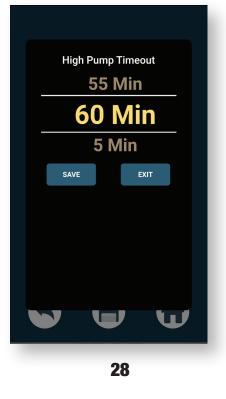
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	SPA			
General Info	General Settings	23 Date Time		
Heat Mode	Timers	Serenity Mode		
SPA CONTR		EL SETTINGS		
	• •			
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- **19.** Select = to view Device Settings.
- **20.** Select General Information to view the NEO Configuration.
- **21.** Select **Panel Settings** to display the settings for the NEO.
- **22.** Select **General Info** to display information about the NEO controller.
- 23. Select General Settings to display the options listed.



- **24.** Select **Degree F/C** to choose between Fahrenheit or Celsius.
- **25.** Select **Time Display Setting** to choose between 12 hours (AM/PM) or 24 hours.
- **26.** Select **Device Timeout** to show a list of devices that can be adjusted.
- **27. Light Timeout** can be as low as 5 minutes or as high as 240 minutes.
- **28. High Speed Timeout** can be as low as 5 minutes or as high as 60 minutes.







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TIMERS SETTINGS No Heating Timer Filter Cycle 1 Timer Filter Cycle 2 Timer Filter Cycle 3 Timer Filter Cycle 4 Timer Quiet Timer	NO HEATING TIMERTime 11 59 PM 00 00 AM 01 01 PM Duration 23 59 00 00 00 01 01 01 SMTFSMTWTFSIII	FILTER CYCLE ONE Time $ \begin{array}{c} 07 & 59 \\ 08 & 00 \\ 09 & 01 \end{array} \xrightarrow{PM}$ Duration $ \begin{array}{c} 01 & 5 \\ 02 & 0 \\ 03 & 0 \end{array} \xrightarrow{FILTER CYCLE TWO} \\ \begin{array}{c} 01 & 5 \\ 02 & 0 \\ 03 & 0 \end{array} \xrightarrow{FILTER CYCLE TWO} \\ \begin{array}{c} 03 & 0 \\ 08 & 00 \\ 09 & 01 \end{array} \xrightarrow{FILTER CYCLE TWO} \\ \begin{array}{c} 03 & 0 \\ 08 & 00 \\ 09 & 01 \end{array} \xrightarrow{IIIIE} \\ \begin{array}{c} 03 & 0 \\ 08 & 00 \\ 09 & 01 \end{array} \xrightarrow{IIIIE} \\ \begin{array}{c} 03 & 0 \\ 08 & 00 \\ 09 & 01 \end{array} \xrightarrow{IIIIE} \\ \begin{array}{c} 01 & 0 \\ 08 & 00 \\ 09 & 01 \end{array} \xrightarrow{IIIIEE} \\ \begin{array}{c} 01 & 0 \\ 08 & 00 \\ 09 & 01 \end{array} \xrightarrow{IIIIEEE} \\ \begin{array}{c} 01 & 0 \\ 08 & 00 \\ 09 & 01 \end{array} IIIIEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE$
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FILTER CYCLE THREE Time РМ 00 00 AM 00 01 01 РМ 01 Duration FILTER CYCLE FOUR 0 00 Time 0 01 00 00 AM S M T W 1 Duration 00 00 SMTWTFS \mathbf{G} 36b



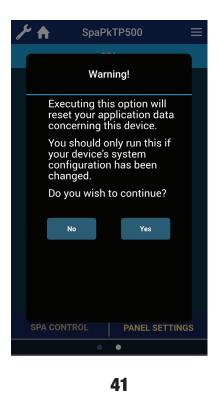
- **34.** Select **Timers Settings** to display a list of timers that can be adjusted.
- **35.** Select No Heating Timer to set the times that the NEO will not heat the spa.
- **36.** Each filter cycle can be customized. By default; Filter Cycle 1 = 8:00 am, 2 hrs and Filter Cycle 2 = 8:00 pm, 2 hrs.
- **37.** Select **Quiet Timer** to set the times that the NEO will not run pumps.

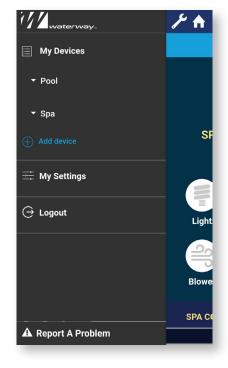


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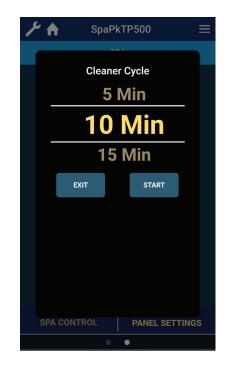
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	SPA		
Cleaner Cycle	Update System		
SPA CONTR	OL PANEL SETTINGS		
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- **38.** Select **Serenity Mode** to temporarily stop pumps from running.
- **39.** Swiping to the right displays **Cleaner Cycle** and **Update System.**
- **40.** Select **Cleaner Cycle** to set the number of minutes for the cycle to run. **START** will start the cycle.
- **41.** Select **Update System** to update the App if the Configuration has been changed on the NEO.
- **42.** The **WRENCH** icon displays account settings for the App.

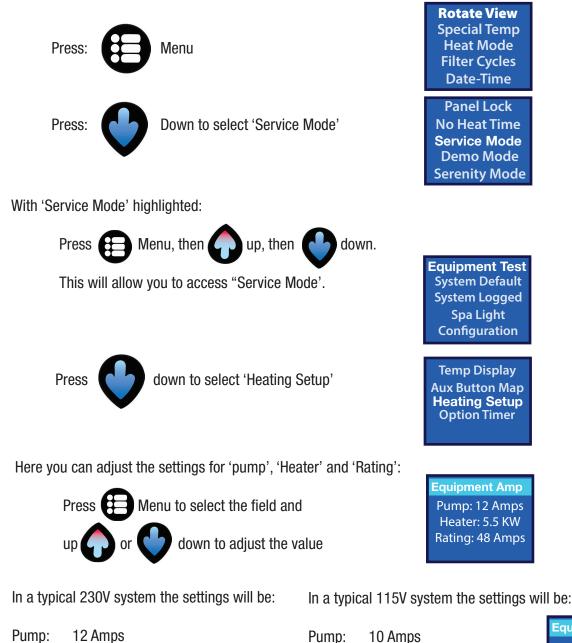
Waterway.

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Change 'Heating Setup' On NEO Spa Controllers

In order to adjust the 'heating setup' in Neo Spa Controllers, 'Service Mode' must be accessed.

To access 'Service Mode':



Equipment Amp Pump: 10 Amps Heater: 1.0 KW Rating: 15 Amps



1.0 KW

15 Amps

Heater:

Rating:

5.5 KW

48 Amps

Heater:

Rating: