



VS Omni®

Consumer How-To Guide



CTSG-VSO100a

Copyright 2018 Hayward Industries Inc.

Safety Precautions



High Voltage Electrocution Hazard

Hazardous voltage can shock, burn, cause serious injury and or death. To reduce the risk of electrocution and or electric shock hazards:

- Only qualified technicians should remove service and install equipment
- Replace damaged wiring immediately
- Ensure applicable equipment is properly grounded and bonded

Table of Contents

VS Omni® Overview	Pg. 4
Smart Relay Interface	Pg. 5
How To:	Pg. 6-20
Download	7
Upgrade Firmware	8-9
Back-Up Config.	10
Connect to Wi-Fi	11-12
Enter/Exit Service Mode	13-15
Create a Theme	16-19
Create a Schedule	20

VS Omni: Overview

- The Hayward VS Omni is a pump based automation solution that is ideal for both retrofit as well as new pool installations.
- The VS Omni features an internal WiFi chip, capable of connecting to a home network broadcasting 2.4ghz Wi-Fi signals.
- The VS Omni features a touch screen display that provides easy navigation in virtually any lighting condition.
- Each VS Omni unit supports up to 2 smart relays, up to 2 VSPs, 1 valve, 1 heater, and 3 sensors.
- Its USB port supports the ability to upgrade the system firmware as well as backup and restore configuration files.



VS Omni: Smart Relay

Front



Label	Function
Remote	Green = communicating with wiring hub Red = not communicating with wiring hub
Relay	Green = Relay is ON (Load power) RED = Relay is OFF (No Load power)
ON/OFF	Provides manual override only when the wiring hub comm is down / unassigned



VS Omni®

How To:



How To: Download Firmware

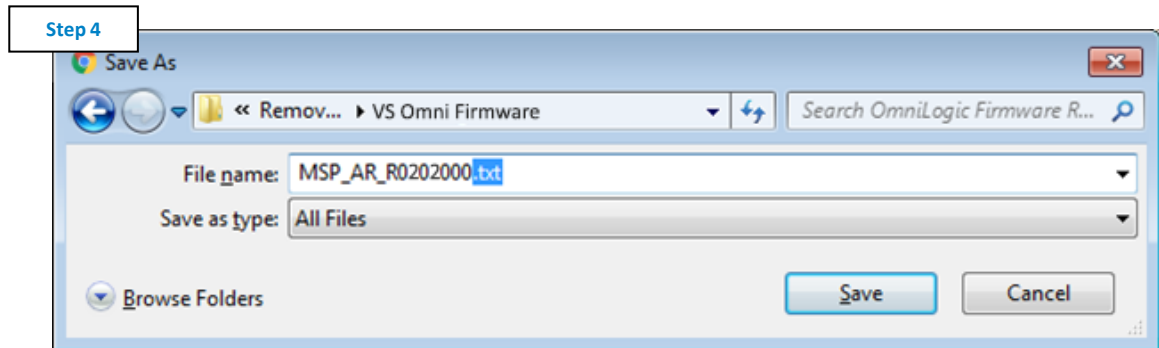
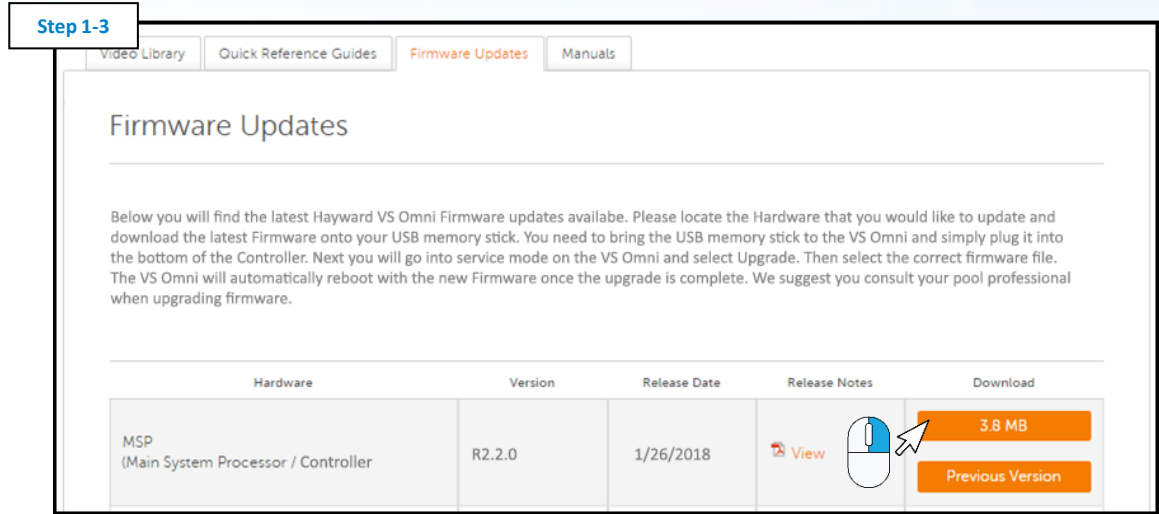
To download the latest firmware to a USB drive go to www.hayward.com
Support Center > Automation > VS Omni > Support

Step 1: Right click on the link of the file you wish to download.

Step 2: Within the options menu select "Save link as..."
(**Note:** USB drive must already be connected to your computer).

Step 3: From the "Save As" window navigate to the desired USB drive.
(**Note:** please make sure to select the root directory of the USB drive).

Step 4: Before saving, change the "Save as type" to "All Files" AND remove the ".txt" file extension that automatically appears. Then click on "Save" button.
(**Note:** failing to remove the .txt file extension will result in an unreadable firmware upgrade file).

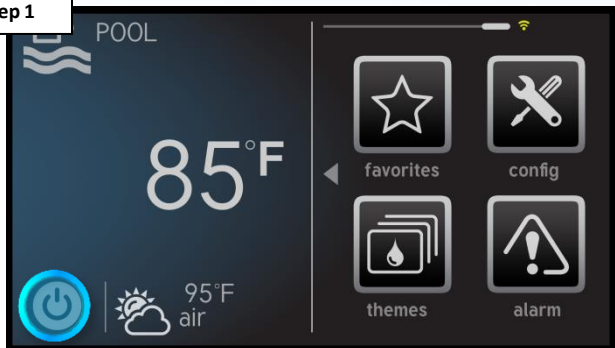


This process was accomplished through [Google's Chrome Browser](http://www.google.com).

How To: Upgrade Firmware

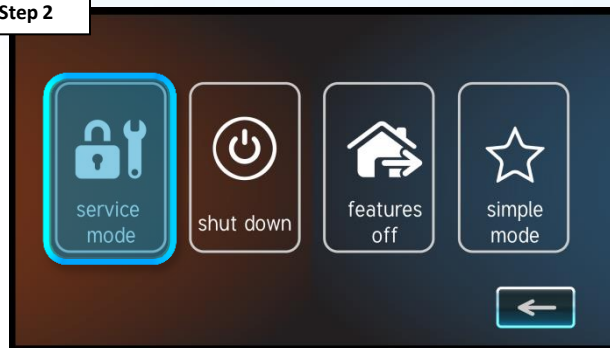
Insert USB drive into the bottom of the controller & follow the steps provided below:

Step 1



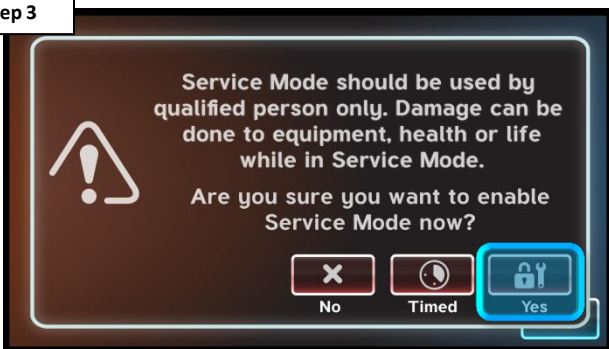
Press the power button.

Step 2



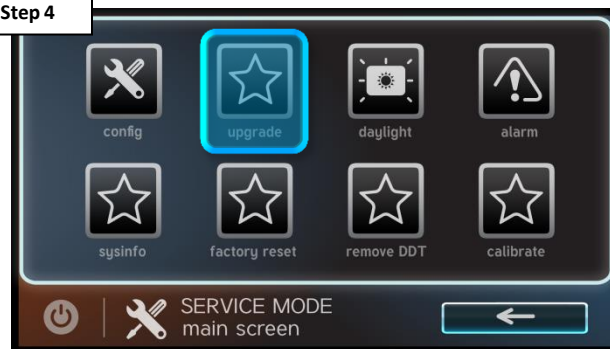
Select "service mode".

Step 3



Select either "Yes" or "Timed" to continue.

Step 4

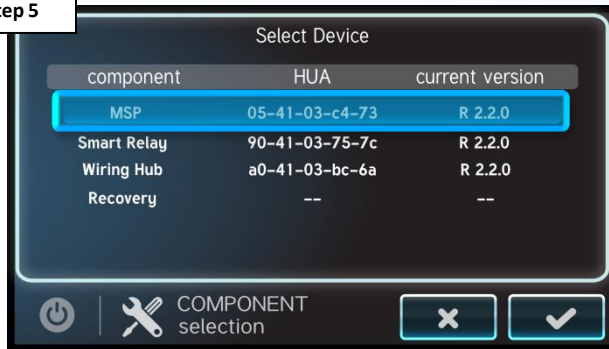


Tap the "upgrade" icon.

How To: Upgrade Firmware (cont.)

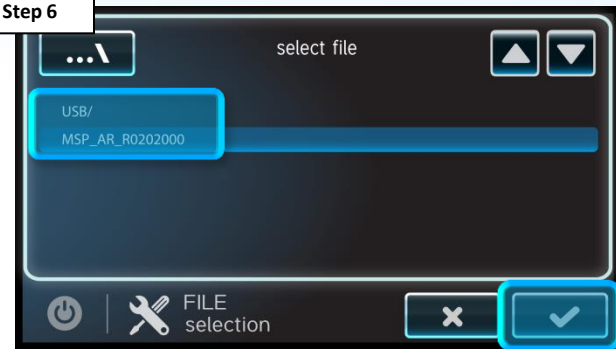
NOTE: Make sure all devices are up to the latest firmware revision.

Step 5



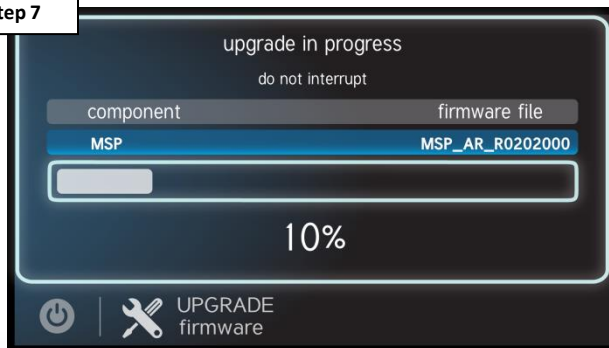
Select the "MSP" to upgrade the controller.

Step 6



Select USB, latest file, and then check mark.

Step 7



Once the upgrade has started **DO NOT** power off while in process.

Step 8

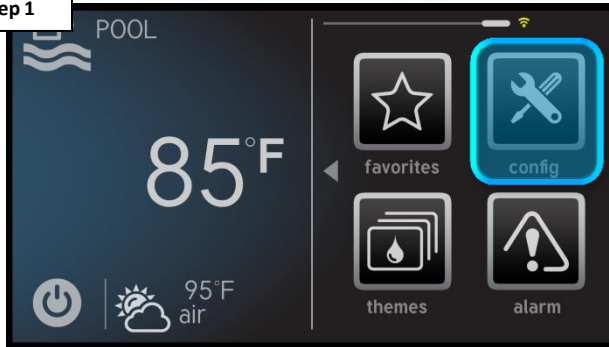


Once the firmware upgrade has completed, press the check mark to power cycle the unit.

How To: Back-Up Configuration

Use the steps provided to Backup a configuration. These steps aid firmware upgrades, controller changes, and corrupted configurations.

Step 1



On the right of the dashboard locate and tap the "config" icon.

Step 2



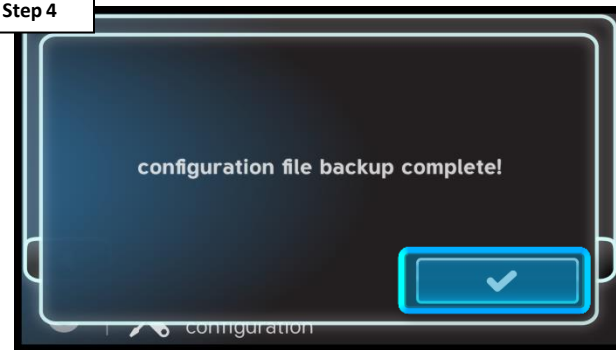
Select the "Backup config" option (third down on the left most column).

Step 3



Select "Backup to USB", after inserting a USB drive, then press the check mark.

Step 4

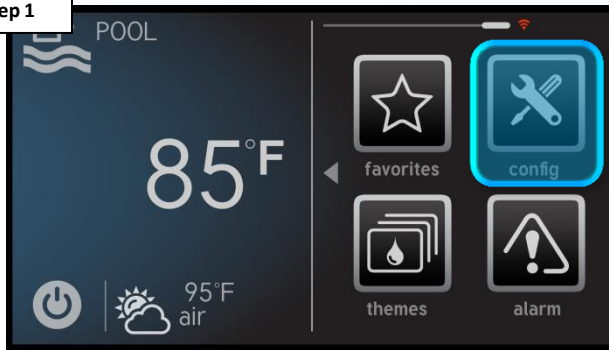


Once the backup is confirmed press the check mark to finalize.

How To: Connect to Wi-Fi

The following identifies how to connect to a 2.4Ghz Wi-Fi signal.

Step 1



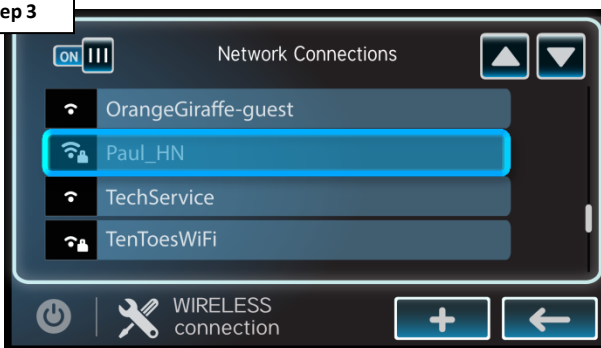
On the right of the dashboard locate and tap the “config” icon.

Step 2



Select the “network” option, on the right side of the screen.

Step 3



If no network has been setup prior, select the desired Wi-Fi signals, otherwise skip to Step 6.

Step 4



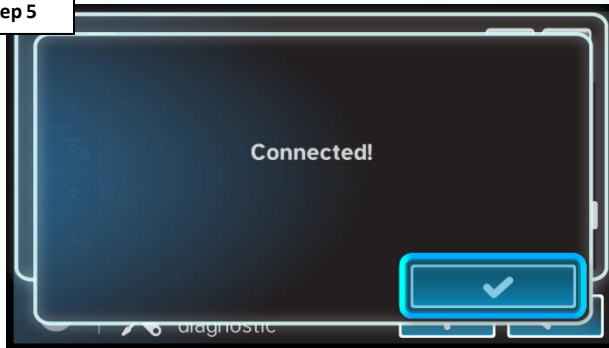
Enter the network password, followed by the check mark to complete.

NOTE: The network password IS CASE SENSITIVE. To confirm connection, go to Config>Network and verify IP addresses appear under the dynamic tab.

How To: Connect to Wi-Fi (cont.)

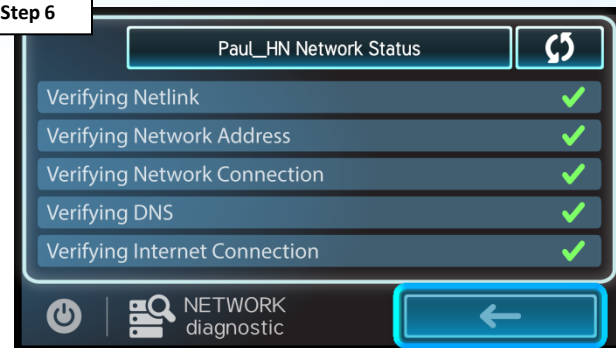
The network diagnostic tool will check for possible connection issues.

Step 5



If the password was accepted, press the check mark. If not, go back and verify credentials.

Step 6



A network diagnostics test will run, if all green check marks appear press the back button.

Step 6b



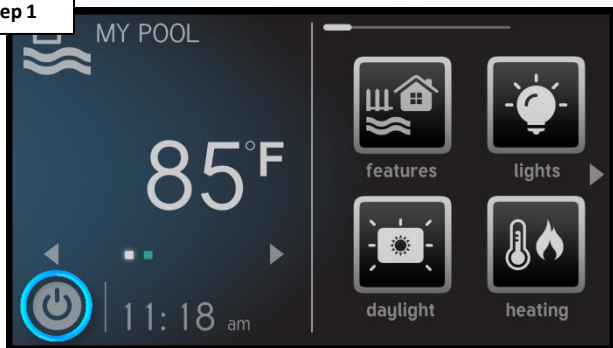
Test	Description
Verifying Netlink	Confirms network password acceptance
Verifying Network Address	Verifies the Controller has an IP credentials (supplied by router)
Verifying Network Connection	Confirms the router is communicating
Verifying DNS	Conducts a web test (pings a webpage)
Verifying Internet Connection	Verifies connection with the OmniLogic Web Server

The following table outlines a description of each test, conducted by the Network Diagnostics. A failure of any of these items will provide additional troubleshooting steps.

How To: Enter/Exit Service Mode Timed

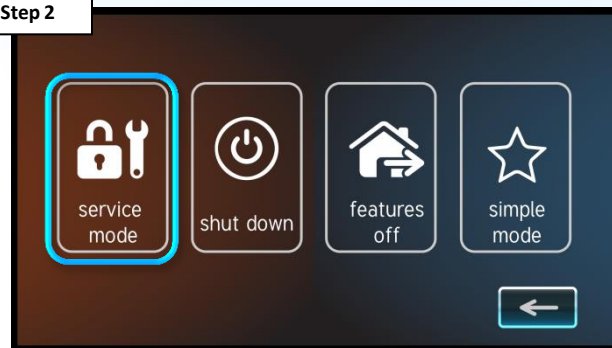
The following steps outline how to enter & exit service mode.

Step 1



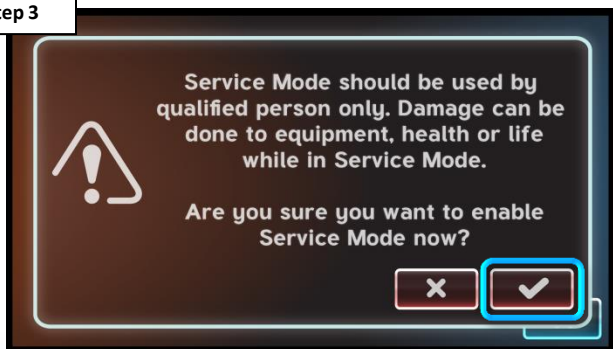
Press the power button (it does not matter what screen is showing at the time).

Step 2



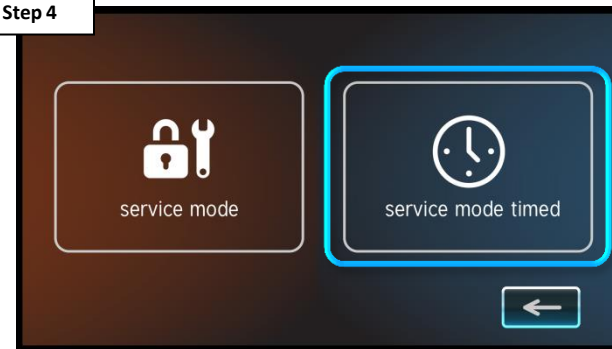
Select the 'service mode' option which appears on the far left.

Step 3



A warning will appear, prior to entering service mode. If qualified, tap the check mark.

Step 4

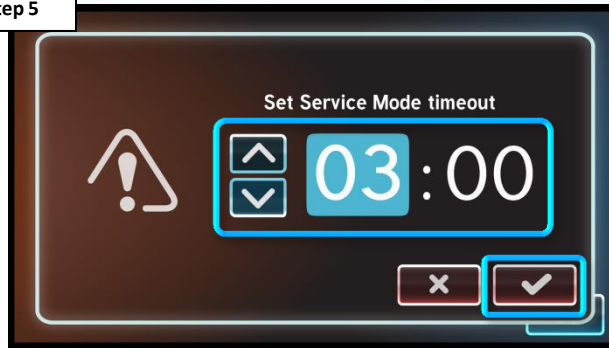


Select 'service mode timed' (this sets an expiration on the service mode duration).

How To: Enter/Exit Service Mode Timed (cont.)

Service Mode Timed allows professionals to enter service mode for a predetermined period of time; the system will return to automatic control once the timer expires.

Step 5



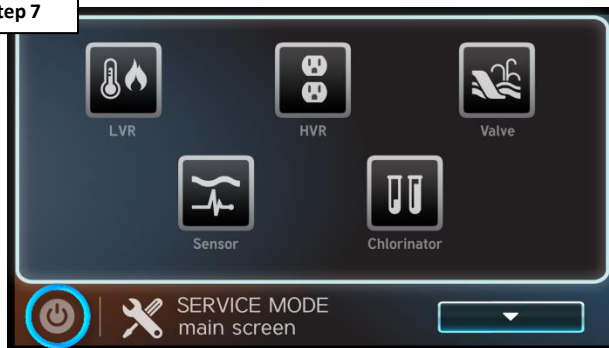
Set duration using up/down arrows. Then select the check mark.

Step 6



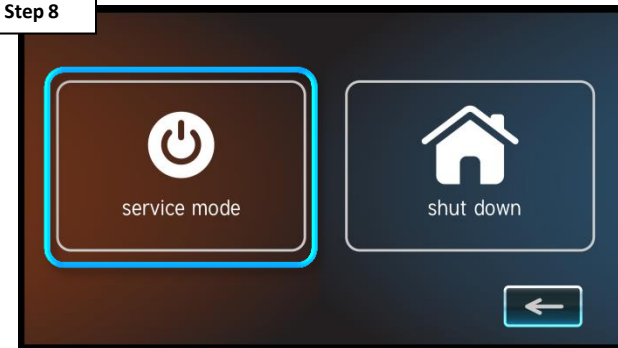
The system is now in service mode for the amount of time specified (in step 5).

Step 7



To exit service mode prematurely, select the power button again.

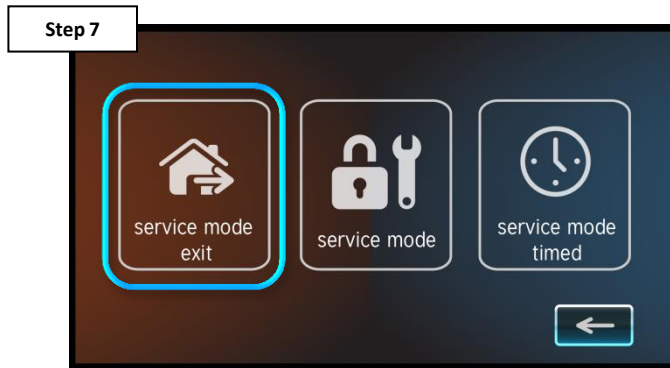
Step 8



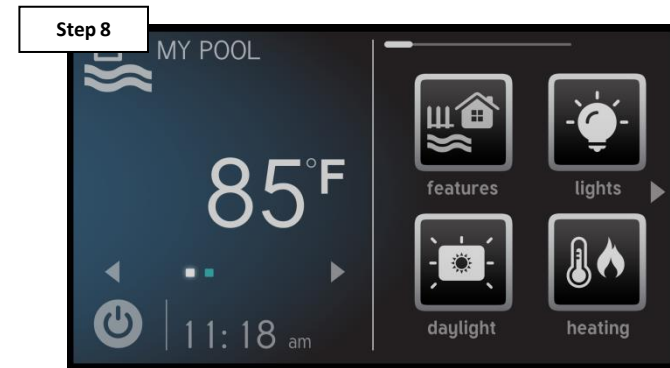
Select the 'service mode' option on the far left.

How To: Enter/Exit Service Mode Timed (cont.)

NOTE: With the exception of step 5, the process for entering/exiting standard 'service mode' (without a countdown), is the same. It is important to note that if the timed service mode is not utilized, the system will stay in service indefinitely until reversed.



On the far left, select the 'service mode exit' option to return to normal operation.



Once complete, the system will return to the main dashboard view.

How To: Create a Theme

The following steps if you need to create a theme.

Step 1



Select the body of water desired theme equipment resides.

Step 2



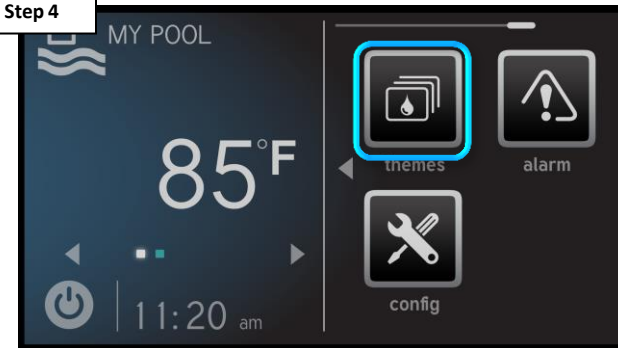
Activate all desired equipment to be included in the theme.

Step 3



Verify all equipment is running, then select the "back arrow" to return.

Step 4

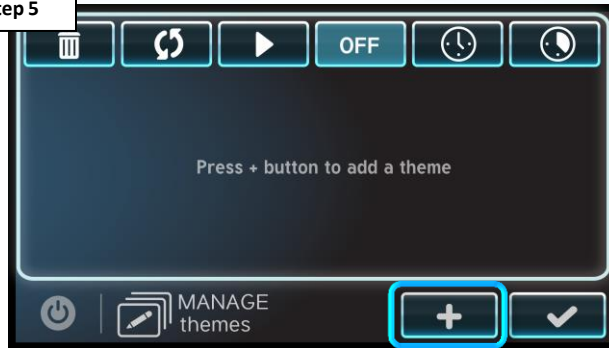


Navigate and select the "themes" icon to add a new theme.

How To: Create a Theme (cont.)

The OmniLogic supports up to 25 themes.

Step 5



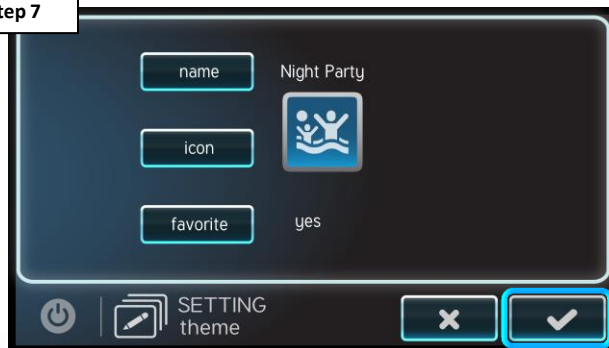
Select the “+” button to add a new theme use the “check mark” confirming equipment is on.

Step 6



Change the name, icon, and verify it is added as a favorite.

Step 7



Once complete, review that the name and icon are correct, then press the “check mark”.

Step 8

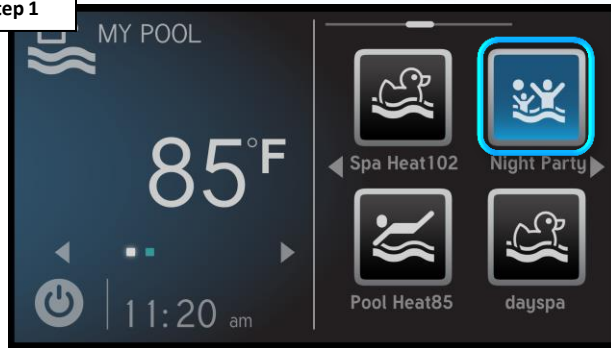


Press the “check mark” when complete, repeat steps 1-8 to add additional themes.

How To: Edit a Theme

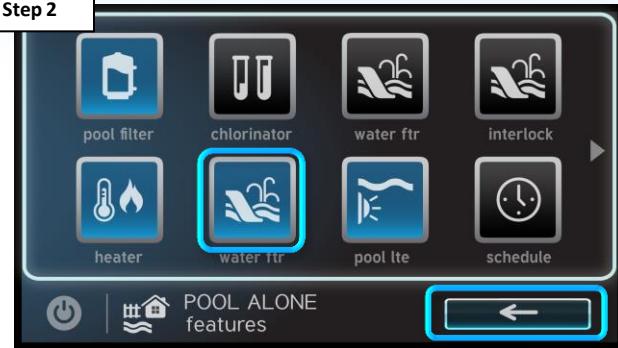
The following steps if you need to edit a theme.

Step 1



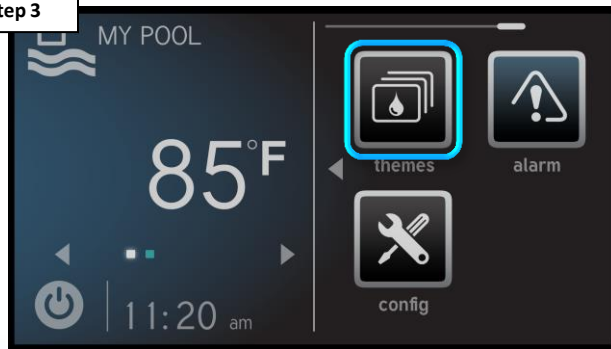
Locate and activate the theme in need of editing.

Step 2



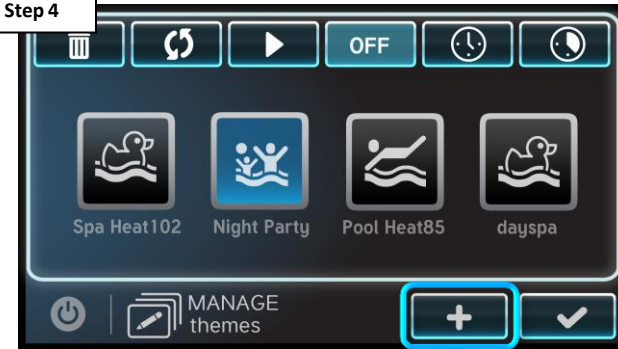
Select additional equipment desired. Once complete, select the back arrow.

Step 3



Navigate and select the 'themes' icon to manage existing themes.

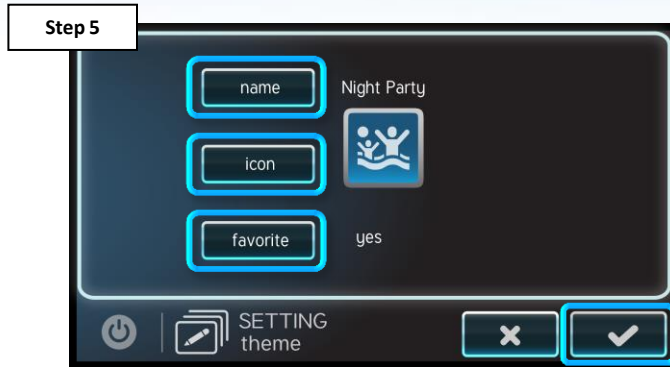
Step 4



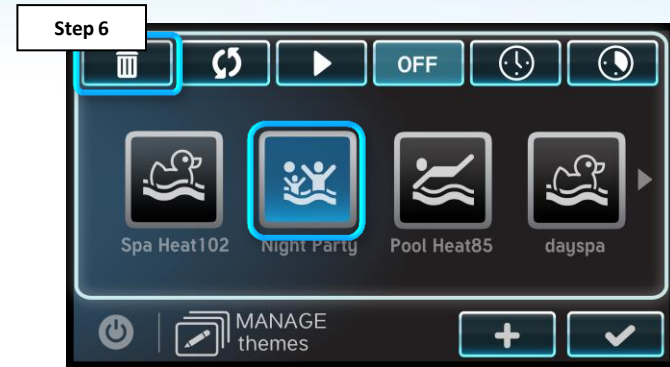
Select the "+" button to add a new theme use the "check mark" confirming equipment is on.

How To: Edit a Theme (cont.)

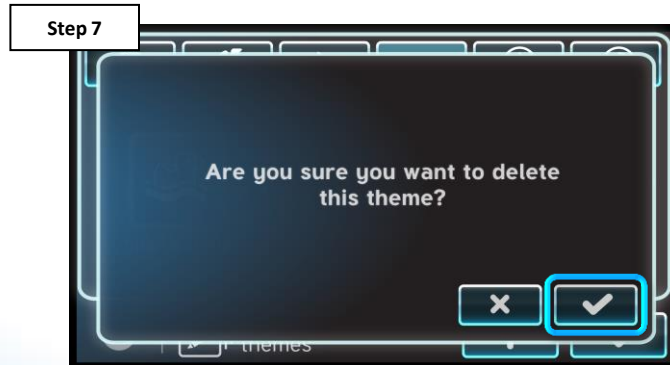
NOTE: When editing a theme, the new theme can have the same icon and name as the old theme.



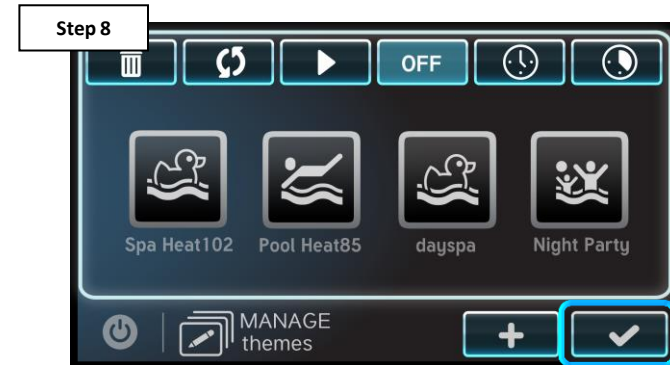
Change the name, icon, and verify it is added as a favorite. Select 'check mark' to confirm.



Select the old theme, then select the 'trash can' icon (top left) to delete.



Select the "check mark" to confirm that the theme should be deleted.

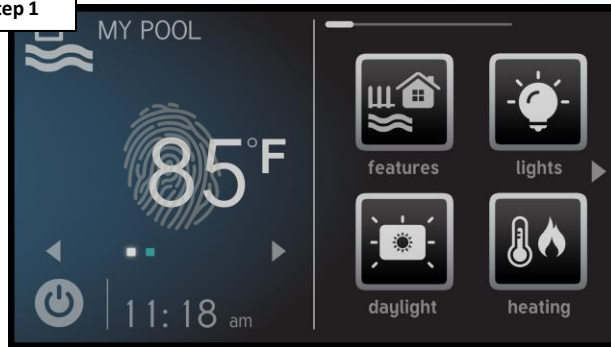


Repeat steps 1-7 to edit additional themes, then press the "check mark" to finalize.

How To: Create a Schedule

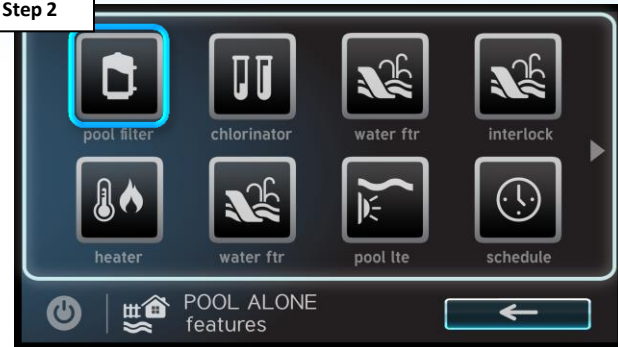
You can set multiple schedules for each item. *NOTE* it is recommended to leave a small gap between consecutive schedules (ex. 8am – 5pm and 5:01pm to 8pm)

Step 1



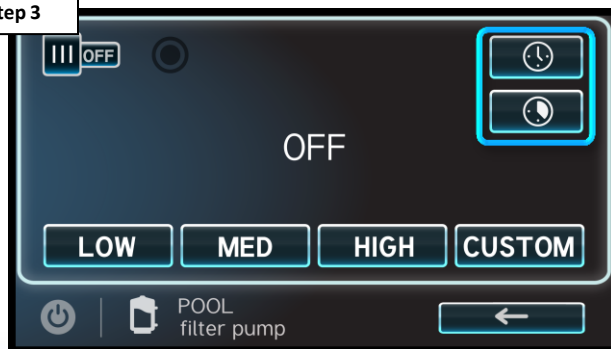
Select the body of water desired theme equipment resides.

Step 2



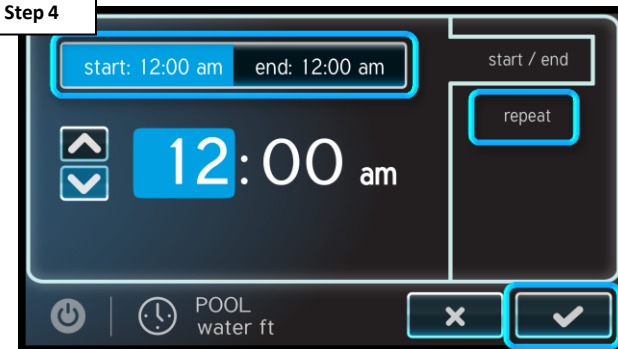
Select the icon that corresponds with the desired filter pump.

Step 3



Select the schedule icon (top right) to schedule a time window for each piece of equipment or the countdown icon for a one-time countdown event (below schedule).

Step 4



Set the start time and end time then select the day(s) you would like the schedule to run (by selecting the repeat option). Once complete select the check mark.