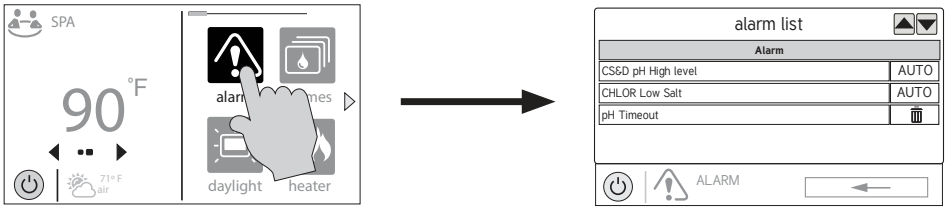
symbol in the upper right side of the associated button as shown. For more detail, use the Alarm button found in Favorites.

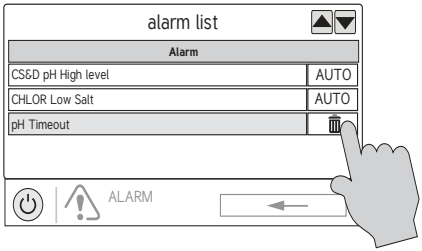
Alarms are automatically generated when the AQR S3 Omni detects a condition outside of the normal operating parameters. The Alarm button found in Favorites will bring you to a screen that displays any active alarms. Some alarms can be manually deleted; others will remain until the alarm condition is corrected.



Home Screen

Deleting Alarms

For Alarms that can be manually deleted, follow the procedure below.



Upgrading Firmware (AQR S3 Omni using firmware 4.0.0 or greater)

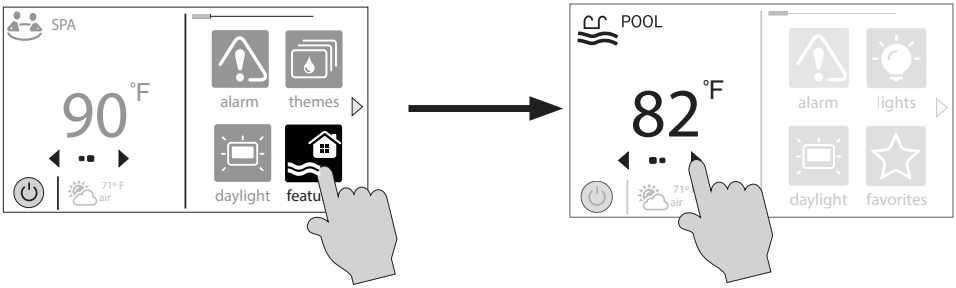
All firmware upgrades are initiated from Service Mode. If you receive an alarm that upgrades are available, selecting the alarm will give you the option to delete the alert or start the upgrade (you can also ignore the alert and wait for a more convenient time). If you choose to start the upgrade process, you'll be warned that the AQR S3 Omni must go into Service Mode and will temporarily pause operation during this time. The upgrade procedure is shown on page 33 under "Upgrade from Internet".

Daylight

Daylight is another button that will appear in Favorites by default. This button is used to change the screen contrast for better viewing in bright sunshine. Touching this button will toggle Daylight viewing on and off.

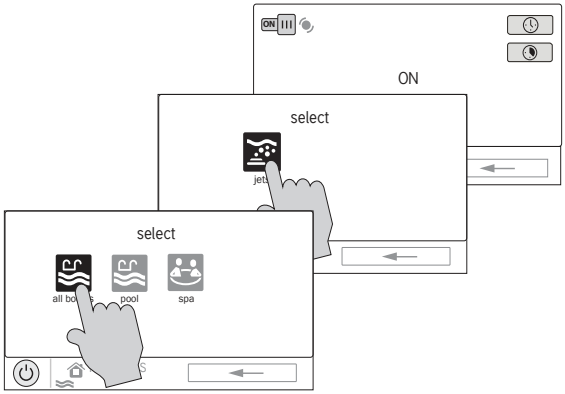
Features/Lights/Heaters/Backyard

These four buttons function similarly. If any water feature, light, heater or backyard accessory has been configured in the Configuration Wizard, a Features, Lights, Heaters and/or Backyard button will appear in Favorites. These buttons give you quick access to the Control Screens for all related pool equipment. These are the same Control Screens that you've used in the Body of Water Features and Controls Screen section of this manual. For Features, Lights and Heaters you can display the equipment based on a particular Body of Water or from all Bodies of Water.



Edit Features/Lights/Heaters

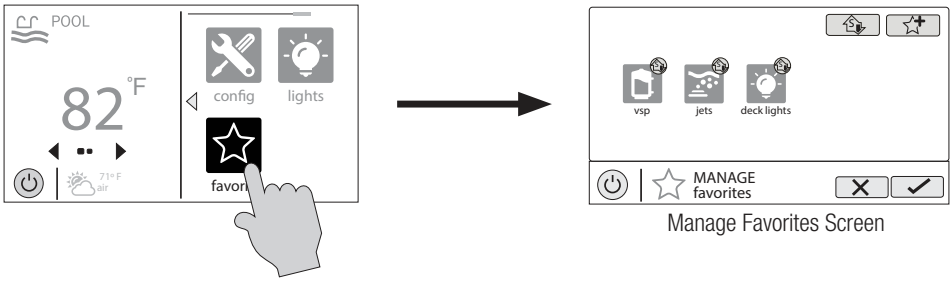
When a feature, light or backyard accessory is selected, you'll advance to the related Control Screen.



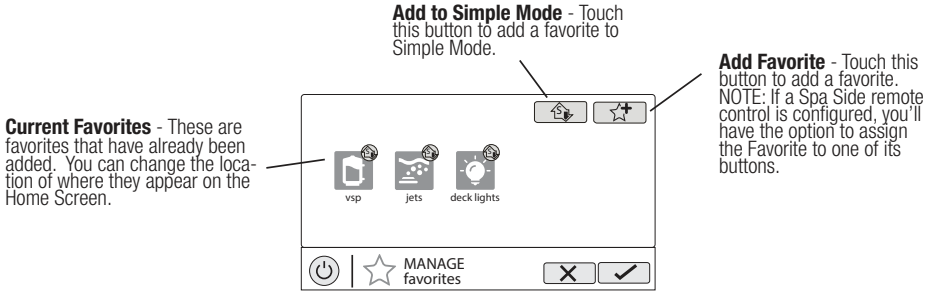
Control Screen

Favorites Screen

All of the buttons on the right side of the Home Screen are referred to as "Favorites" but there is also a Favorites button. Using this button, you can create and manage all of your Favorites.

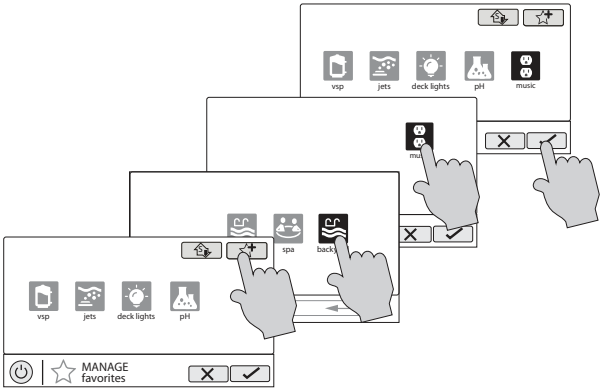


Manage Favorites Screen



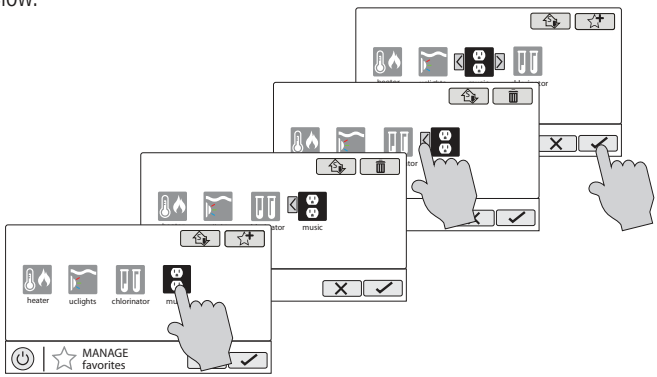
Creating Favorites

Follow the procedure below for adding Favorites. This example shows how to create a Favorite for equipment that was configured as a Backyard Accessory. In this case, "Music". To find "Music" in our Add Favorites screen, we have to select "Backyard" when prompted. The next screen will show all equipment configured for the Backyard; in this case, just Music. Selecting Music and saving will add Music to the Favorites screen. We can now move the Music button if desired.



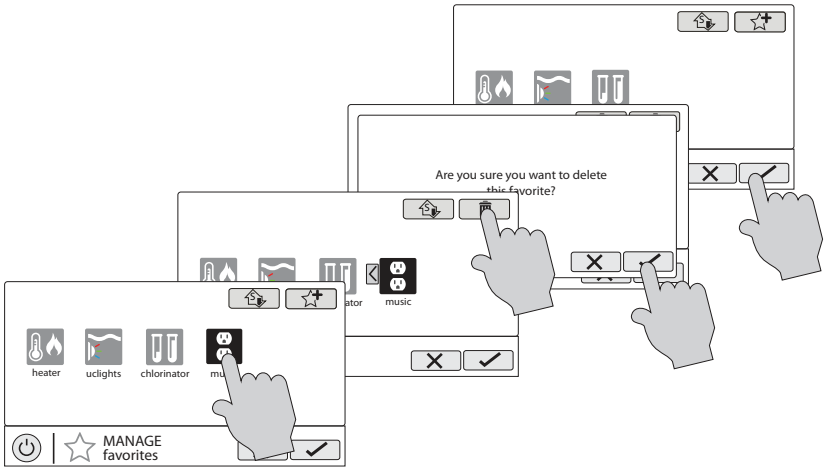
Moving Favorites

Favorites will be displayed on the Home Screen in the order that they are shown on the Favorites Screen, from left to right. The default Favorites can not be moved. To move Favorites, follow the procedure below.



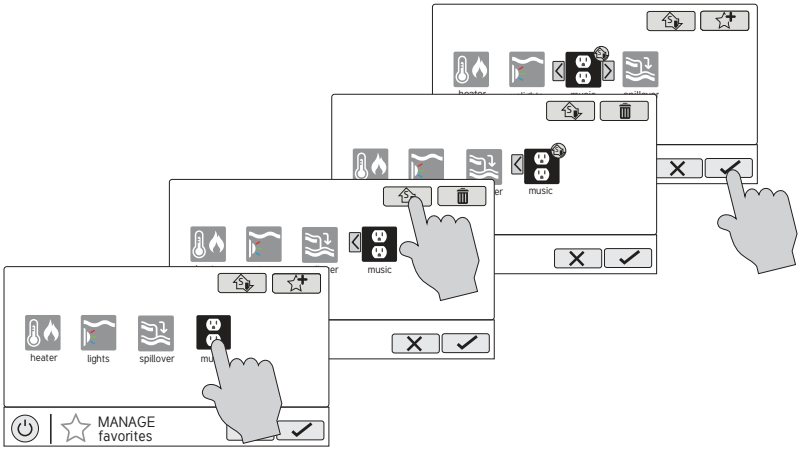
Deleting Favorites

To delete Favorites, follow the procedure below. Default Favorites can not be deleted.



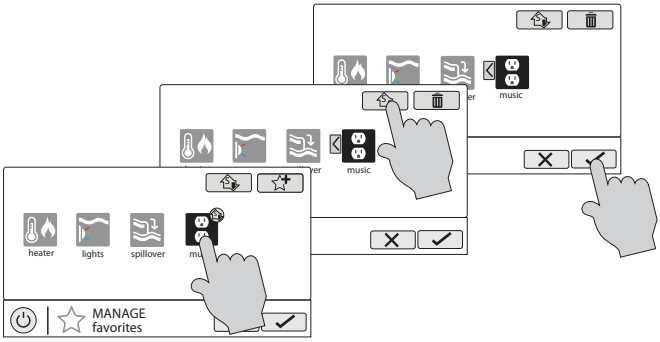
Adding Favorites to Simple Mode

For more information on Simple Mode, refer to page 36. Note that most Favorites can be added to Simple Mode but not all. Follow the procedure below. Note: If the Favorite has been added to Simple Mode, moving the button location on the Favorites screen will affect its position on the Simple Mode screen.



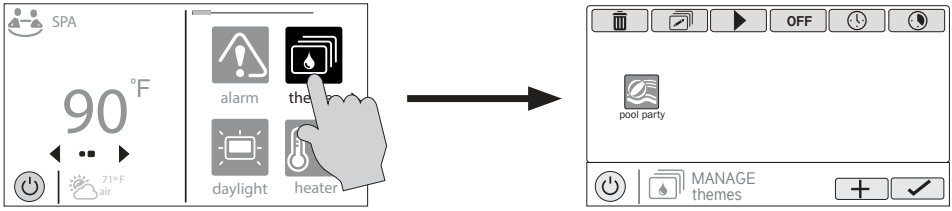
Deleting Favorites from Simple Mode

Deleting Favorites from Simple Mode is similar to adding Favorites to Simple Mode.

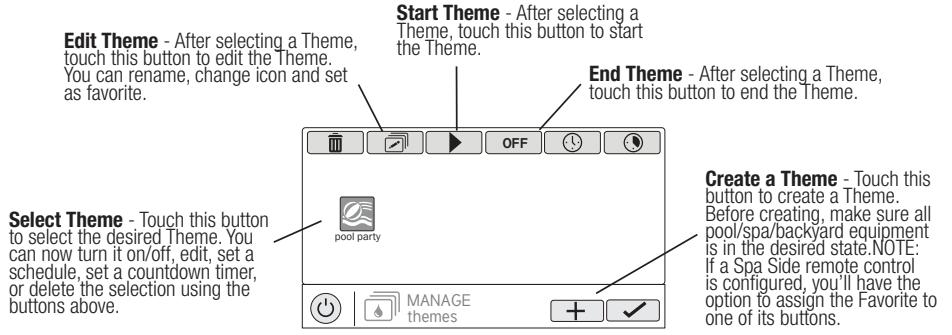


Themes

Themes allow you to execute many pool functions with just one button. This can be handy for functions that require interaction with various pool equipment. For example, spending an evening in the spa might require you to turn on the spa jets, set the spa heater to 104º, turn on music and turn on the spa lighting. Rather than manually performing these functions, they can be saved as a theme and executed with just one button. To create a Theme, put all of the pool/spa/backyard equipment into the desired state. In the example above, you would set all the equipment as described. When creating Themes, the AQR S3 Omni takes a "snapshot" of the system state/settings. This snapshot is saved as a Theme. Refer to the following diagrams and information for creating and running Themes.



Manage Themes Screen



Edit Theme - After selecting a Theme, touch this button to edit the Theme. You can rename, change icon and set as favorite.

Start Theme - After selecting a Theme, touch this button to start the Theme.

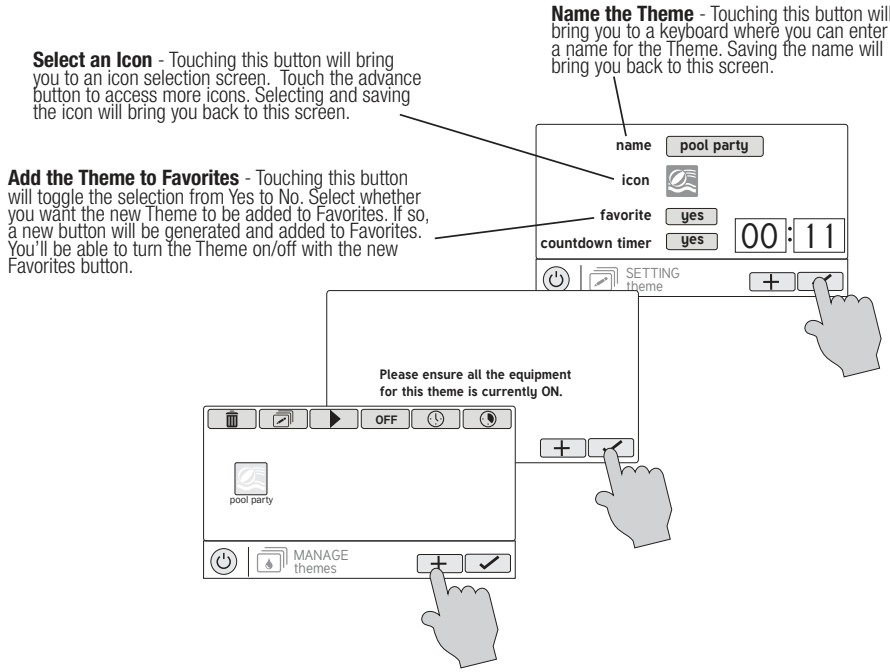
End Theme - After selecting a Theme, touch this button to end the Theme.

Select Theme - Touch this button to select the desired Theme. You can now turn it on/off, edit, set a schedule, set a countdown timer, or delete the selection using the buttons above.

Create a Theme - Touch this button to create a Theme. Before creating, make sure all pool/spa/backyard equipment is in the desired state.NOTE: If a Spa Side remote control is configured, you'll have the option to assign the Favorite to one of its buttons.

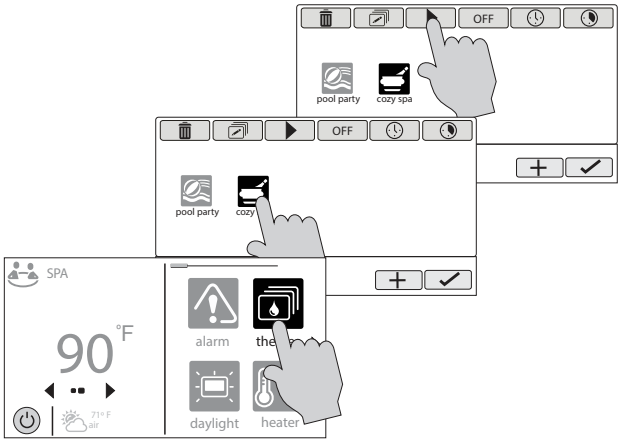
Create a Theme

To create a Theme, put all of the pool/spa/backyard equipment into the desired state.



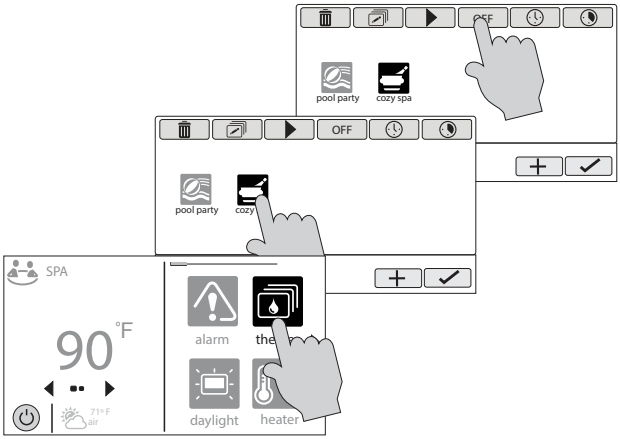
Starting a Theme

If a Favorite was created for the Theme, run the Theme just as you would any other Favorite. To start a Theme within the "Manage Themes" screen follow the procedure below. Note that only one Theme can run at a time.



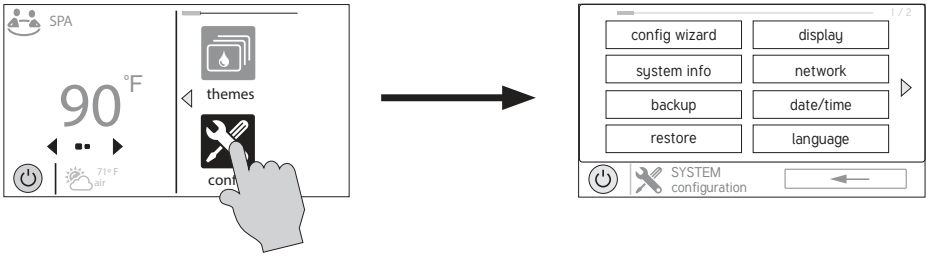
Stopping a Theme

If a Favorite was created for the Theme, stop the Theme just as you would any other Favorite. To stop a Theme within the "Manage Themes" screen follow the procedure below. Note that when stopping a theme, all functions will turn off and the filter pump will return to any schedules that have been previously set.



Config

The Config button offers many options related to the configuration and operation of the AQR S3 Omni. You can view log files, backup configuration settings, restore configuration settings, modify display settings and more.



Using a USB Thumb Drive

Some options require the use of a USB thumb drive (removable media) that will be inserted in the AQR S3 Omni. If logging is desired (page 30), the thumb drive should be left in the AQR S3 Omni during normal operation. The location of the USB port is shown in the Installation Manual. If a thumb drive will be used, follow the procedure on the top of page 29 when inserting and removing.

⚠**WARNING** - The thumb drive will always be inserted and removed with the power off.

1. Turn off all pool equipment.

2. Remove power to the AQR S3 Omni's electrical panel.
3. Insert the thumb drive into the USB port at the AQR S3 Omni Controller.
4. Apply power to the AQR S3 Omni.
5. After the AQR S3 Omni starts, perform the procedure which requires the thumb drive.
6. When procedure is finished, remove power to the AQR S3 Omni.
7. Remove the thumb drive.
8. Apply power to the AQR S3 Omni and resume operation.

Config Wizard

The Configuration Wizard is used to add, remove and configure pool equipment that is controlled by the AQR S3 Omni. This has already been done at installation and should not be needed unless a change has been made to the system. If a new configuration is saved, it will overwrite the old configuration and may require you to change previous equipment settings.

If pool equipment is added or removed from your system you may edit the existing Configuration. Two types of editing are available; Full Edit and Quick Edit. A Full Edit will walk you through each step of the Configuration Wizard and allow you to save at the end. Refer to the Configuration Wizard Guide in the Installation Manual when using a Full Edit. A Quick Edit allows you to go directly to the equipment that you'd like to add/remove/configure. In most cases, Quick Edit will offer the most convenient way to make these changes. For more information, refer to the Quick Edit Guide section in the Installation Manual.

IMPORTANT: Existing themes are affected when new equipment is added. To ensure proper operation, delete and then re-create any existing Themes after adding new equipment regardless of whether the new equipment is used within the Theme.

System Info

System Info will show the Hayward Unique Address (HUA) and version for all smart components (components that communicate with the AQR S3 Omni). This may be needed by Hayward Technical Service when troubleshooting or diagnosing system issues.

Backup

You can back up your configuration settings, schedules, setpoints etc. to the AQR S3 Omni's internal memory or to a USB thumb drive. If using a thumb drive, use the instructions for inserting and removing thumb drives as explained above.

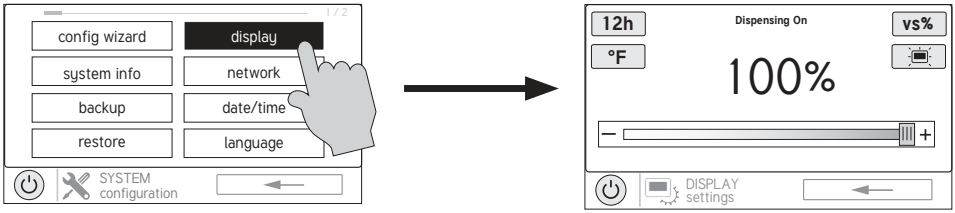
Restore

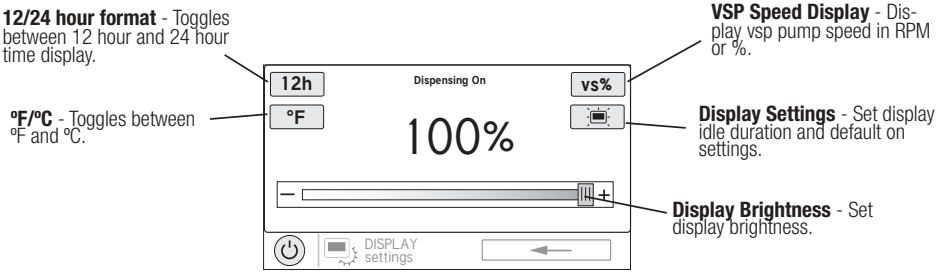
You can overwrite the existing configuration with a backup that is stored internally or on a thumb drive. You will get the following options when selecting Restore Config:

restore backup 1 - this is the last backup that was saved to internal memory.
restore backup 2 - this is the second to last backup that was saved to internal memory.
Restore from USB - you can browse the USB drive and find available backups. Backup files will begin with "MSPCONFIGxxyyzz" where xx=month, yy=day, and zz=year (the date the file was created). The AQR S3 Omni will automatically create a backup file when a new configuration is saved. These files end with ".xml". Backup files that are created manually end with ".bak". Both types can be restored.
To restore a backup, make your selection from above and then touch Save.

Display

The Display Settings screen offers options to customize the way the AQR S3 Omni displays information.





Network

You can view the AQR S3 Omni ip address at this screen. This is the address that the router will use to connect the AQR S3 Omni to the home network. You can also turn the connection to the router on and off using the On/Off toggle.

Date/Time

Although the Date/Time can be set manually, it is recommended that you select to have it updated automatically online. This method is required to receive firmware upgrades through the internet.

Language

Select a language. If a desired language is not shown, it may be available from Hayward through their website at www.hayward.com/firmware. Refer to page 35 for information on installing new languages.

Data Log (requires Thumb Drive, page 28)

Use this feature if instructed by Hayward Technical Service. The data log shows a log of daily operation and can help Hayward Technical Service diagnose or troubleshoot problems. The Data Log options are:

Clear Log File- this will delete all data in the log file.
Show Log File - this will display the log file.
Restore Defaults - this will return the data log settings to the factory default.
Set Level - you can change the amount of detail that is shown in the log file with this button.
You can also enable and disable data logging using the On/Off toggle.

Service Mode and Firmware Upgrade

Service Mode

Service Mode is used for upgrading firmware, service maintenance and diagnostic functions. Note that changes within Service mode should only be made by qualified individuals who understand the connected pool equipment. Because systems will be disabled while in Service Mode, you will have an option to set a timer before entering.

Because most functions in Service Mode require a qualified service professional, a brief overview is shown below. You may be asked by Hayward Technical Service to access some of these functions to provide information or help diagnose an issue.

LVR This function allows technicians to energize/de-energize the connected low voltage relays.

HVR This function allows technicians to energize/de-energize the connected high voltage relays.

Valve This function allows technicians to energize/de-energize the connected valves.

Sensor View and calibrate connected temperature sensors.

Chlorinator View diagnostic information and test the chlorinator function.

VSP View diagnostic information and test connected VSPs.

CS&D View diagnostic information and test Sense and Dispense equipment.

Config Some of the Config options operate differently while in Service Mode. There are also additional Config options available in Service Mode that are not shown in Standard Mode.

Backup - While in Service Mode, Backup adds a third option called “Clone Controller to USB”. This would most likely be used by service personnel who are replacing the mainboard in the AQR S3 Omni. This Clone option will allow for a mirror image of the AQR S3 Omni’s configuration, settings, and attached devices to be written to a USB thumb drive. After the mainboard is replaced, the AQR S3 Omni can be restored to all of the original parameters. Only one clone file can be copied to a USB drive and this option shouldn’t be used to copy an image to other AQR S3 Omnis. For those applications, one should use the standard backup function.

Wireless Waterproof - This option displays the HUA of each connected water-proof remote control and allows you to enable or disable the units.

SC upload files - This option can be used to upload files to Hayward Technical Service for evaluation and troubleshooting.

Web Server - This is for internal use only.

Boot Image - A copy of the unit’s operating system is kept on internal storage in case of file corruption. If necessary, Hayward Technical Service may instruct you to use this option.

Diag Info - This option accesses the AQR S3 Omni's diagnostic information. Hayward Technical Service might require this information to help troubleshoot or diagnose issues.

Toggle Demo Mode - Demo mode is used for display purposes only. When in Demo Mode, the AQR S3 Omni runs a simulation allowing users to view and interact with preset screens. The AQR S3 Omni is not functional when running in Demo Mode.

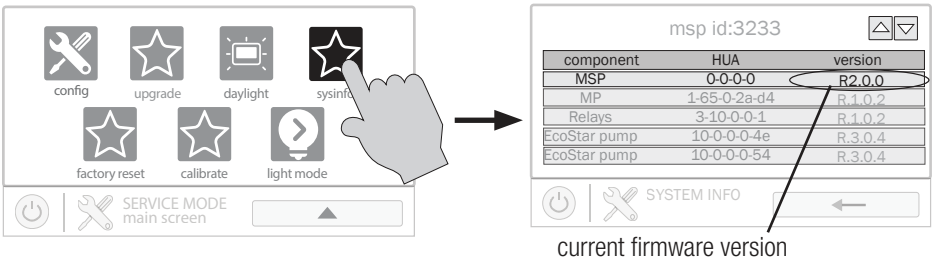
Datalog - Used with the guidance of Hayward Technical Service to troubleshoot or diagnose issues.

Upgrade	Use this button to upgrade firmware to the latest release. Refer to the information at the bottom of the page.
Daylight	This function will invert the colors on the display to make it easier to see in some lighting conditions.
Sysinfo	View current firmware versions for AQR S3 Omni components.
Factory Reset	Deletes all existing configuration and settings.
Calibrate	This function allows for the recalibration of the Local Terminal.
Light Mode	Change the operation mode of Universal ColorLogic lights.

Firmware Upgrade

The AQR S3 Omni's firmware is the basic operating system that runs the unit. The AQR S3 Omni was shipped with the version of firmware that was available at the time of release. There may be a newer version available and if so, we encourage you to upgrade. Also, if you have experienced problems, Hayward Technical Support may advise you to upgrade your AQR S3 Omni firmware. To upgrade your firmware:

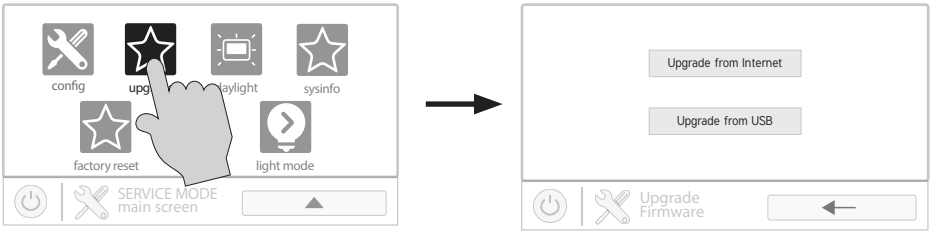
1. Determine your current MSP firmware version using the Sysinfo button.



current firmware version

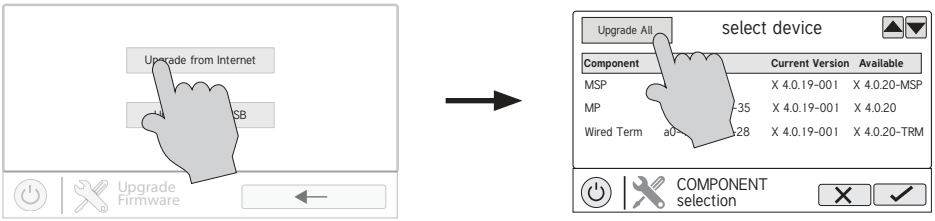
2. Using an ordinary web browser, go to www.hayward.com/firmware and compare the latest available version on the web to the current firmware version. If the firmware version on the web is greater (number is larger) than your current version, upgrade your AQR S3 Omni's firmware.

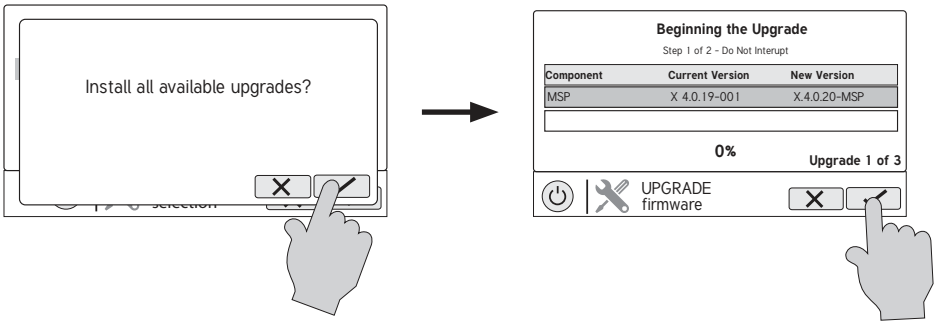
Firmware can be upgraded automatically through the internet (versions 4.0.0 or later) or manually using a thumb drive. Refer to the following information for both methods.

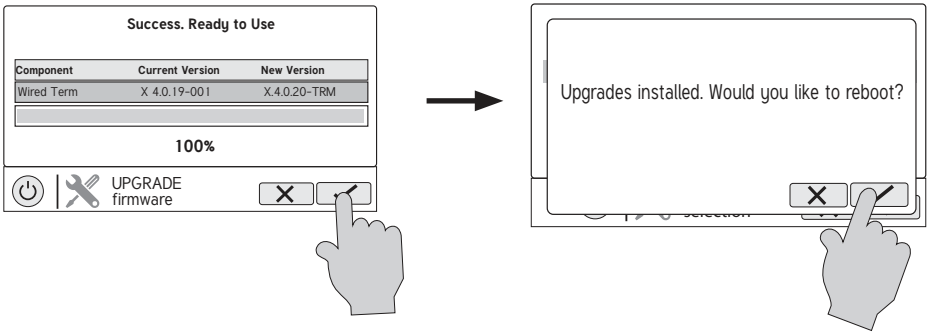


Upgrade from Internet (*Date/Time must be selected to be set automatically prior to upgrading firmware from internet- see page 30.)*

AQR S3 Omni pool controls using firmware revision 4.0.0 and later can be upgraded through the internet. Previous versions must be upgraded manually using the USB thumbdrive method described on page 34. Once updated to 4.0.0 or later, the AQR S3 Omni will alert you of available firmware updates. Note that you can select individual devices to be upgraded by touching the component name or you can upgrade all components using the "Upgrade All" button. It is recommended to upgrade all components at the same time.

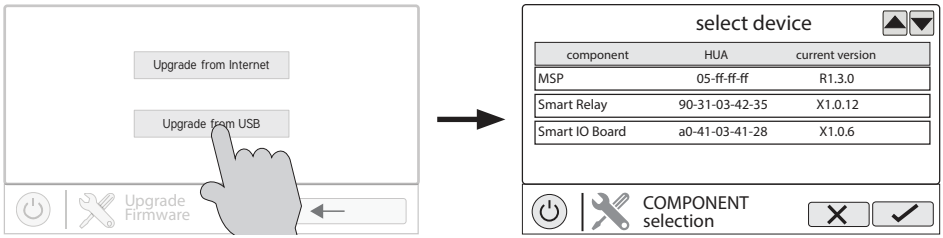




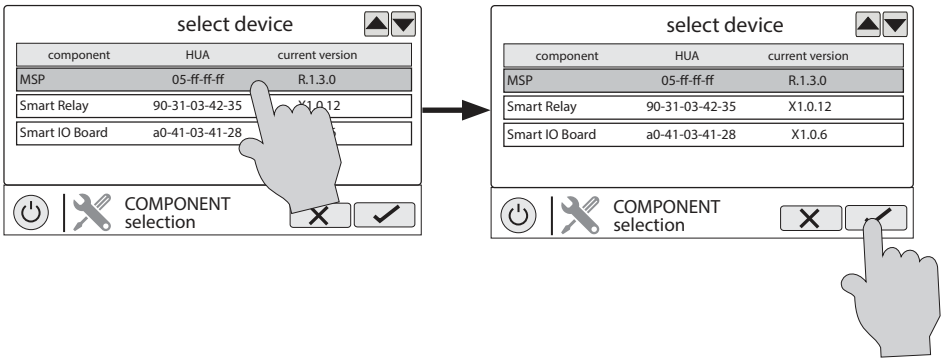


Upgrade from USB

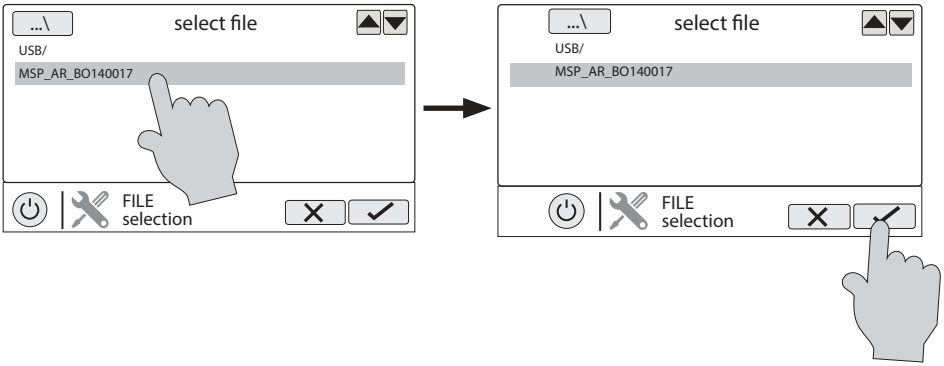
1. Insert your USB thumb drive into your computer.
2. Go to www.hayward.com/firmware.
3. Click on the link to download the latest firmware and save to the USB thumb drive.
4. Remove the USB thumb drive from the computer.
5. Locate the port on the underside of the AQR S3 Omni Control Pad and insert the thumb drive.
6. Apply power to the AQR S3 Omni (if not already powered) and allow the AQR S3 Omni to fully start.
7. Enter Service Mode (page 5)
8. Touch the Upgrade from USB button



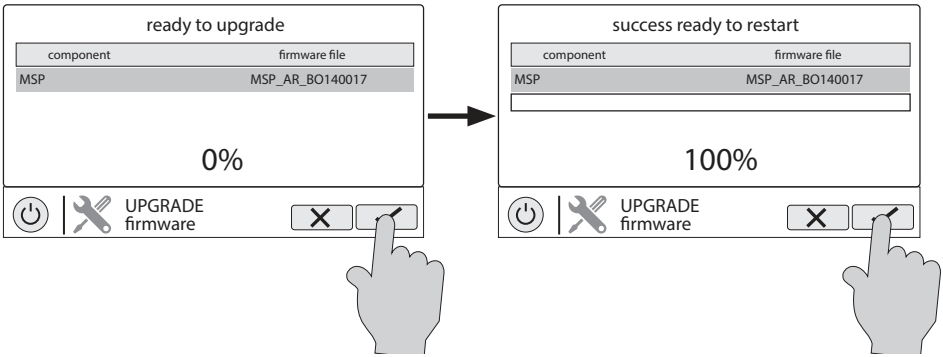
9. Select “MSP” and touch the Save button.



10. The AQR S3 Omni will now look at your USB thumb drive. Select the firmware file that was saved from the website and then touch the Save button.



11. Touch Save to begin the upgrade. After the upgrade is finished, touch Save to restart.



12. After the AQR S3 Omni has restarted, exit Service Mode and resume operation.

Installing a New Language

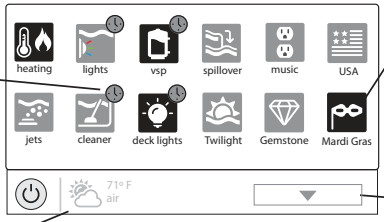
Installing a new language is the same procedure as upgrading firmware from USB. You can find AQR S3 Omni language files at www.hayward.com. To install a new language, follow the steps under "Upgrade from USB" on page 34. At step 10, select a language file instead of a firmware file. Proceed with the remaining steps.

Simple Mode

Up to this point, you've been shown how to view the Home Screen and access all of the pool's functions by using Body of Water Features (left side of Home Screen) and Favorites (right side of Home Screen). This method of access is called "Standard Mode" and offers the most information and control. An alternative to Standard Mode is "Simple Mode". Simple Mode eliminates the Home Screen and allows you to view and control only the Favorites that you specify. Simple Mode is customizable and may be preferred to Standard Mode depending on your needs. Simple Mode can provide a convenient way to access the most common functions for owners as well as a handy solution to limit access to other users. Up to 24 Favorites can be displayed in Simple Mode. Depending on the pool equipment that has been configured, some default Favorites may appear in Simple Mode. These default Favorites cannot be removed from Simple Mode. For information on how to add and delete Simple Mode Favorites, refer to the page 25 in manual.

Simple Mode Screen

Schedule Indicator - Favorites that have been configured to operate on a schedule will display this indicator.



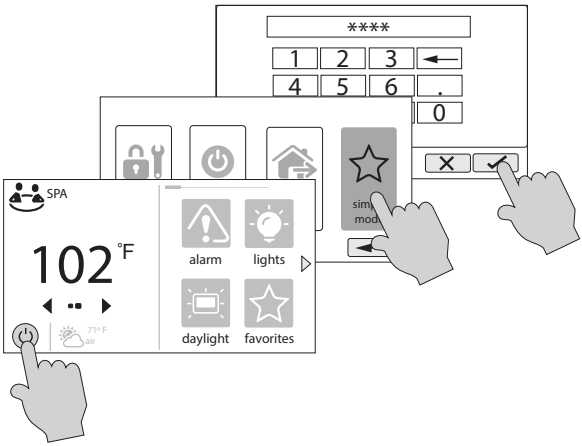
Status - Items that are highlighted are active or "On". In this example, the VSP pump, heater, deck lights and Mardi Gras light show are all On. Touching buttons in Simple Mode will turn the items On or Off.

Advance to Next Screen - If more than 12 Favorites are used in Simple Mode, this button will appear. Touch the button to advance to the next screen.

Home Screen Information - The same information that is displayed on the Home Screen is also displayed on the Simple Mode Screen.

Enter Simple Mode

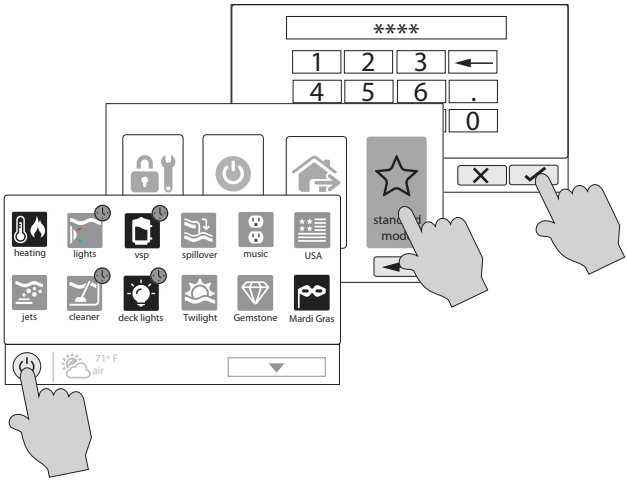
To enter Simple Mode, go to the Home Screen and follow the procedure below. Entering and exiting Simple Mode will require your AQR S3 Omni's MSP ID number. This number is used as a password. To find you unit's MSP ID, refer to page 38.



USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

Exit Simple Mode

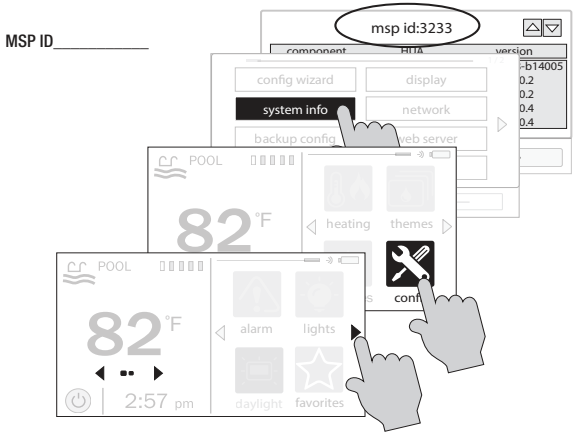
To exit Simple Mode, follow the procedure below.



Web Enabled Control

The AQR S3 Omni should have already been configured for use with the home's router to allow for remote control through the web. This procedure is covered in the Configuration Wizard information found in the Installation Manual. After configuration, an account must be created to allow access to the AQR S3 Omni from web enabled devices. If this has not already been done by the installer, follow the procedure below.

1. Using an ordinary web browser, go to www.haywardomnilogic.com. If you don't already have an account, select "Register New User" and set up a new account.
2. Log in to your account.
3. Register your AQR S3 Omni. Registering will require you to answer a series of questions about your AQR S3 Omni. When asked for your Time Zone, be sure to enter the same time zone as the physical location of the installed AQR S3 Omni, otherwise schedules and timers will be inaccurate. You'll also be asked for an MSP System ID. This number can be found directly from the AQR S3 Omni. To find your unit's MSP ID, follow the procedure below:



After the MSP is accepted, the AQR S3 Omni will be linked to your account. You'll be able to access the AQR S3 Omni at any time from your browser by logging into your account at www.haywardomnilogic.com. For mobile devices, an application must be downloaded from your device's app store. Go to www.hayward.com for more information on the availability and function of mobile apps.

Replacement Parts

Replacement Parts	
PART NUMBER	**DESCRIPTION**
GLXS3HANDLE	Replacement Handle with Coupler Link
GLXS3PCB	Replacement S3 PCB with Cable and Hardware
GLXS3OMNIPCB	Replacement S3 Omni PCB with Cable and Hardware
GLXS3FUSE	All Fuses
GLXS3DISPLAY	Replacement Display with Display Cable
GLXS3RELAY	Relay with Cable and Hardware
GLXS3PLXFMR	Replacement Transformer with Hardware
GLX-PC-12-KIT	Replacement Temperature Sensor with Hose Clamp
GLX-FLO-RP	Replacement Flow Switch
GLX-CELL-UNION	PVC Cell Unions
GLX-FLO-T	PVC Flow Switch T Fitting
GLX-FLOW-RP-25	Flow Switch with 25 ft Cable
GLX-CELLSTAND	Cell Cleaning Stand
GLX-CELL-PIPE	PVC Pipe Placeholder
TCELLS315	Turbo Cell 15k Gallon
TCELLS318	Turbo Cell 18k Gallon
TCELLS325	Turbo Cell 25k Gallon
TCELLS340	Turbo Cell 40k Gallon
TCELLS340X25	Turbo Cell 40k Gallon with 25 ft Cable

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HAYWARD®

LIMITED WARRANTY (effective 03/01/12) Hayward warrants its OmniLogic, OmniHub,OmniPL, Pro Logic, OnCommand and E-Command pool automation products as well as its Aqua Rite, Aqua Rite Pro, Aqua Plus and SwimPure chlorination products to be free of defects in materials and workmanship, under normal use and service, for a period of three (3) years. Hayward also warrants its Aqua Trol chlorination products to be free of defects in materials and workmanship, under normal use and service for a period of one (1) year. These warranties are applicable from the initial date of purchase on private residential swimming pools in the US and Canada. Installations of product for use on commercial pools in the US and Canada is covered for a period of one (1) year for defects in materials and workmanship. Hayward warrants all accessories and replacement parts for the above-identified pool automation and chlorination products for a period of one (1) year. Accessories also include remotes, actuators, base stations, temperature sensors, flow switches and chemistry probes. Each of these warranties is not transferable and applies only to the original owner.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

Proof of purchase is required for warranty service. If written proof of purchase is not provided, the manufacturing date code will be the sole determinant of the date of installation of the product. To obtain warranty service or repair, please contact the place of purchase or the nearest Hayward authorized warranty service center. For more information on authorized service centers please contact the Hayward Technical Service Support Center (61 Whitecap Road, North Kingstown RI, 02852) or visit the Hayward web site at www.hayward.com.

WARRANTY EXCLUSIONS:

1. Material supplied or workmanship performed by others in process of installation.

2. Damage resulting from improper installation including installation on pools larger than the product rating.

3. Problems resulting from failure to install, operate or maintain the product(s) in accordance with the recommendations contained in the owners manual(s).

4. Problems resulting from failure to maintain pool water chemistry in accordance with the recommendations in the owners manual(s).

5. Problems resulting from tampering, accident, abuse, negligence, unauthorized repairs or alternations, fire, flood, lightning, freezing, external water, degradation of natural stone used in or immediately adjacent to a pool or spa, war or acts of God.

6. Use of a non-genuine Hayward replacement salt chlorination cell on any Hayward automation or chlorination product will void the warranty for that product.

The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature. Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

For further information or consumer
technical support, visit our website at
www.hayward.com
US: 908-355-7995

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