

Aqua Connect Home Network (ACHN) Diagnostics Manual



AQ-CO-HOMENET

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Aqua Connect Home Network (ACHN) Diagnostics











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 the panel
- Replace damaged wiring immediately
- Insure panel is properly grounded and bonded



ACHN Minimum Requirements

Family	Model	Firmware
2 nd Generation Antenna	AQL2-BASE-RF	v1.10

&

Pro Logic	All Models including PL-P-4	v4.20 & higher
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-OR-

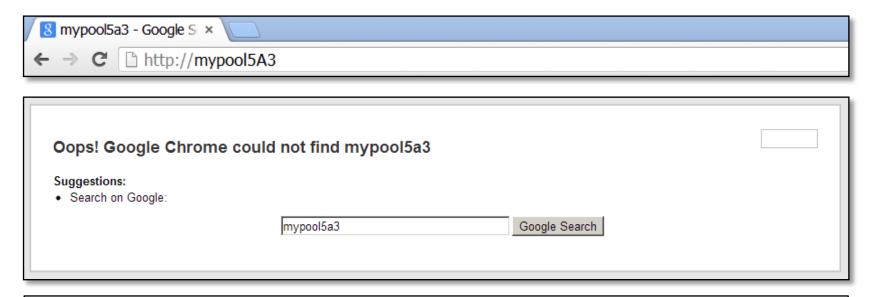
Aqua Rite Pro	All Models	v1.20 & higher



ACHN Operation Status LEDs

LED	Description
RF	Normal Operation: ON Solid Indicates whether or not the ACHND is communicating with the pool controller.
TX	Normal Operation: Flashing Indicates when the ACHND is sending information through the Ethernet cable.
RX	Normal Operation: Flashing Indicates when the ACHND is receiving information from the Ethernet cable.
LINK	Normal Operation: Flashing 4 times per minute Indicates when communication occurs between the ACHND and the Aqua Connect Website.





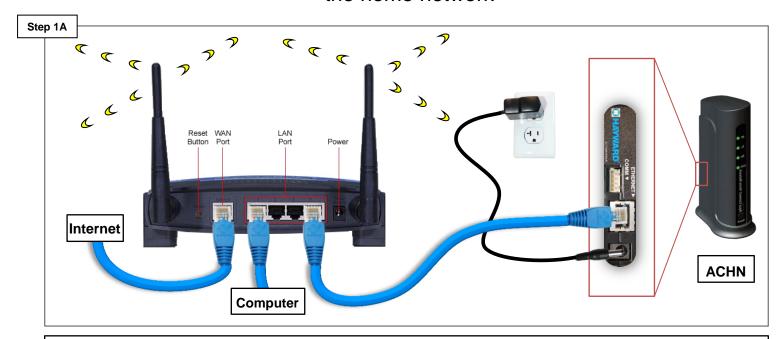
If the Intranet otherwise known as the LAN feature is not working using the last three digits of the MAC address, proceed to step 1A located on page 5.



Note: the MAC Address is 12 characters long and can be located on the label underneath the ACHN device



Verify that the ACHN is communicating with the home network

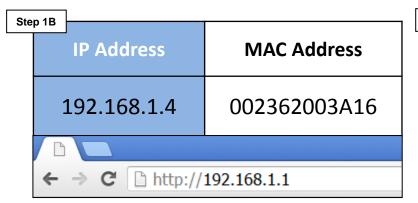


Verify the ACHN has power and its Ethernet cable is plugged into the same router as the computer. If the Tx and Rx LEDs do not appear replace the Ethernet cable. If Wi-Fi is being used, make sure the Aqua Connect is plugged into the same router as the Wi-Fi signal. If correct go to step 1B (p.6).



Substitute the http://mypoolxxx with the IP address assigned to the ACHN by the home network

I: Locate and click on the App Store, II: Locate the "Search" icon at the bottom and type "Fing" into the search bar III: Click on the "Fing" App



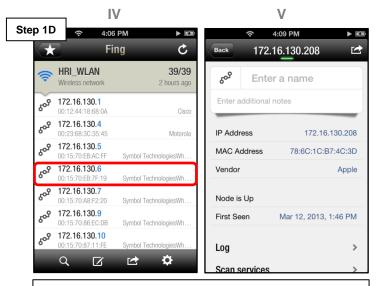
Highlighted in blue is an example of an IP address. The IP address will be assigned by the customer's home network, whereas the MAC address is the equivalent of a social security number and is a unique identifier. To obtain the IP address through an Apple product go to step 1C. To obtain the IP address through a PC, go to step 1E. (p.7).



I: Click on the App Store which is located on the dashboard. II: Click on the search option and type "fing" into the search bar. Click on Install (this should be a free app) III: Open the app and proceed to step 1D (p.7).

IV: Click on the IP address that matches the MAC address (in light grey font). V: Copy the IP address

VI: Click on the start button VII: Scroll up to run and select VIII: In the "Open" bar, type "cmd" and select the "OK" button



Type http:// in the address bar of the browser followed by the IP address. If this does not correct problem go to step 1H (p.9).



VI: Start by pressing the start button (bottom left of the Windows Task Bar) or click on "Run" if available. VII: Select the "Run" option. VIII: Type "cmd" into the "Open" bar and press the "OK" button. Continue to step 1F (p.8).

Type ping mypool followed by the last three digits of the MAC address and press enter

Once the test has run the IP address should appear in brackets as highlighted below

```
Step 1F

Microsoft Windows XP [Version 5.1.2600]
(G) Copyright 1985-2001 Microsoft Corp.

U:\>
```

Once entered proceed to step 1G.

```
Step 1G

It C:\WINDOWS\system32\cmd.exe

Microsoft Windows XP [Uersion 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

U:\>ping mypool319

Pinging mypool319 [172.16.150.146] with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

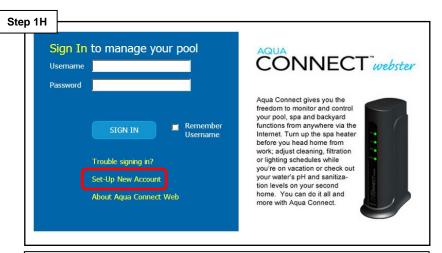
Pequest timed out.

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

U:\>
```

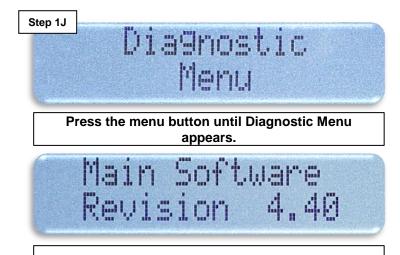
Copy the IP address and use it in the Address Bar (preceded by the http://) If this does not correct go to step 1H (p.9).

Register the unit through the ACHN website. www.aquaconnectweb.com



If Set-up New Account does not appear click on Classic option at the bottom of the page. If registration works and adding a pool provides full control from the web, then the problem is in the LAN security (home network – which may require the help of a network professional). If the problem still exists proceed to step 1J.

Check the main software revision in the diagnostics menu.



Press the right arrow until main software rev. appears. If the main software revision is 4.20 or higher (1.20 for AQR-PRO) then the problem is likely the network. In some extremely rare cases the Aqua Connect could be the cause of this problem.

2: Aqua Connect Not Functioning

Unit Not Communicating



Verify the RF LED is illuminated green



If the RF LED is not lit, go to train the ACHN (p.18). If the RF LED is illuminated perform a range test (p.19). Once all resets are complete go to step 2B.

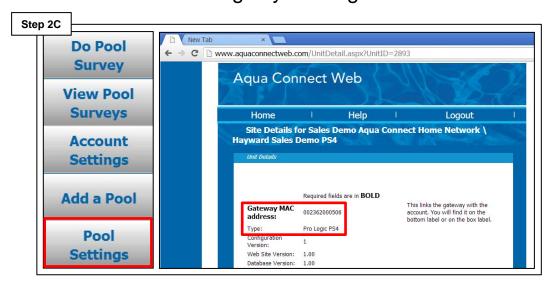
Verify an internet connection



Make sure the internet connection is working on the device you are trying to access the ACHN from. If internet connection is not working check with Internet Service Provider (ISP). If internet is working go to step 2C (p.11).

2: Aqua Connect Not Functioning Unit Not Communicating

Log in to the web account and check the Pool Settings by clicking on the tab



Log in to the ACHN account and on the left side of the dashboard select the "Pool Settings" tab. Scroll down until the Gateway MAC address appears as well as the controller type; if this information does not appear go to step 2D, if it does appear contact tech support (908)355-7995.

Check the main software revision in the diagnostics menu.



Press the menu button until Diagnostic Menu appears.

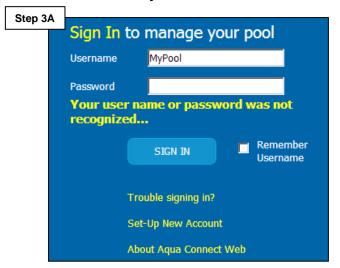


Press the right arrow until main software rev. appears. If the main software revision is 4.20 or higher (1.20 AQR-PRO) then the problem is either the network or possibly the Aqua Connect.



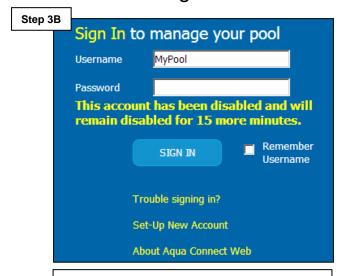
3: Aqua Connect Account Can't Sign into Web Account

Verify Username and retry Password



Double check the user name and retry password. Though the username is not case sensitive the password is. If the account is locked go to step 3B otherwise contact tech support to reset password (908)355-7995.

Wait 15 minutes and retry sign in



Though the username is not case sensitive the password is. If the account has been locked, wait 15 minutes and then contact tech support to reset password (908) 355.7995.

Note: The username and email address must be provided in order to reset the password through technical support.



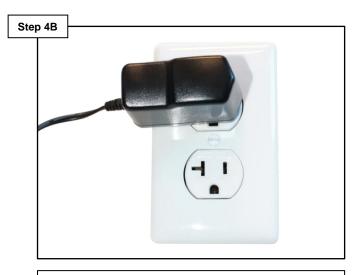
4: Aqua Connect Device No LEDs Illuminated

Verify the 5DC through ACHN power cable



With the power cable plugged into the wall check the power on the output side of the transformer for 5DC ±.5DC. If no or low voltage, go to step 4B. If correct go to step 4C (p. 14).

Verify receptacle has power



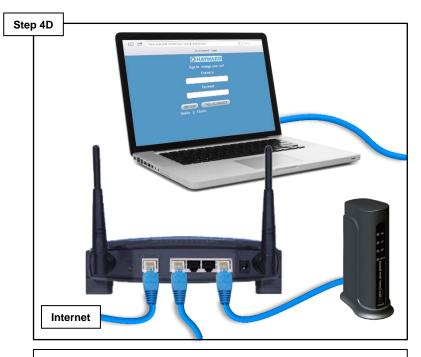
If plug is a GFCI verify it is not tripped. Check the plug for power. If no power consult an electrician. If power is present replace the ACHN plug (GLX-HOMENET-PS).

4: Aqua Connect Device No LEDs Illuminated

Plug in Power and Ethernet Cables

Plug the Ethernet into another router port. If the Tx and Rx do not appear replace the cable and if LEDs still do not appear go to Step 4D. If LEDs appear follow instructions on p.18 to train the unit.

Verify the Internet Connection

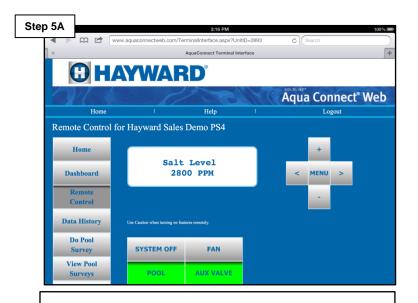


If the internet connection has been verified and the Tx and Rx LEDs do not appear replace the Aqua Connect. If this does not correct the problem consult the Internet Service Provider (ISP).



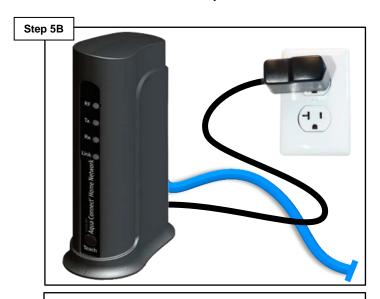
5: Aqua Connect Device Constant Screen Refresh or Not Updating

Note the browser being used with the Aqua Connect Website



If refreshing the browser does not correct the issue, go to step 5B. If it does problem solved.

Unplug the ACHN device for a couple of minutes and then restore power



If this does not correct the problem on an Apple product, proceed to step 5C (p. 16). For PC based products go to 5D (p. 17).

5: Aqua Connect Device Constant Screen Refresh or Not Updating

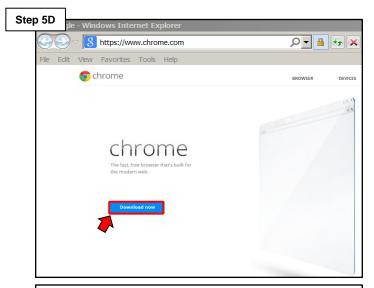
I: Locate and click on the App Store II: Locate the "Search" icon (bottom) and type "Chrome" into the search bar III: Click on "Chrome" App



I: Click on the App Store which is located on the dashboard. II: Click on the search option and type "Chrome" into the search bar. Click on Install (this should be a free app) III: Open the app and proceed to step 5E (p.17).

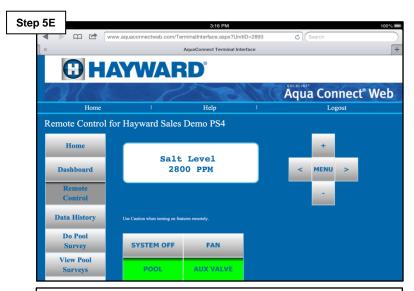
5: Aqua Connect Device Constant Screen Refresh or Not Updating

Install the Google Chrome browser on non-Apple based device



To download the Google Chrome browser on a non-Apple based product. Open the current web browser and type www.chrome.com in the address bar. Click on the Download now option, launch the chrome browser and go to step 5E.

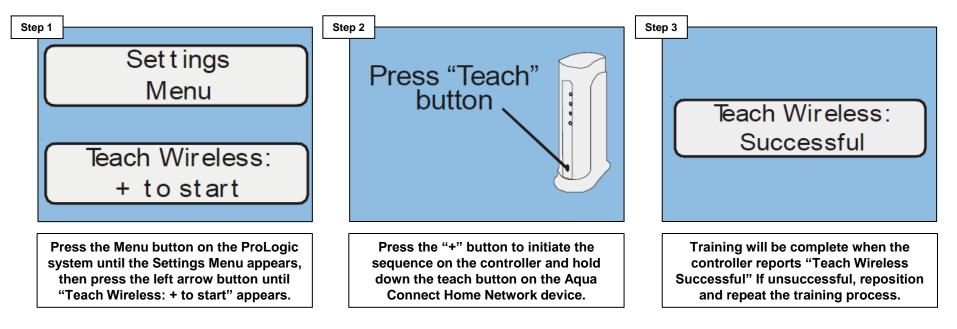
Check ACHN functionality by trying the remote control feature



If problem still persists temporarily disable all security software and firewalls associated with the home network and retry. If this corrects the issue speak with a network professional about modifying the network to allow the ACHN device full access.

Aqua Connect: Training the Device

Use the following steps to train the Aqua Connect Home Network Device to the control system. Make sure both units are powered up when conducting this step.

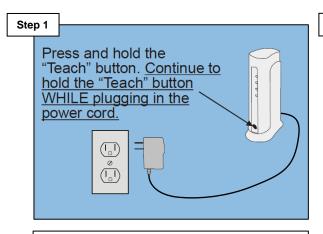


Note: If training the wireless device fails verify that the antenna is generation 2 (AQL2-BASE-RF). A GLX-RF-EXTEND is available if the antenna needs to be moved closer to the Aqua Connect.

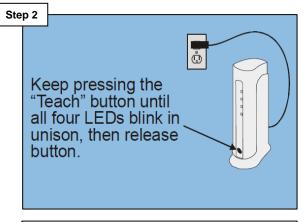


Aqua Connect: Performing a Range Test

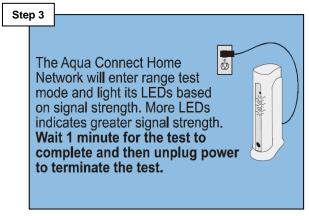
Use the following steps to perform a range test, verifying the RF signal strength between the ACHN device and the control system. Once complete, clear the test by power cycling the ACHN device.



To perform a range test unplug the ACHN and hold down the "Teach" button. While holding down the button plug in the power cable.



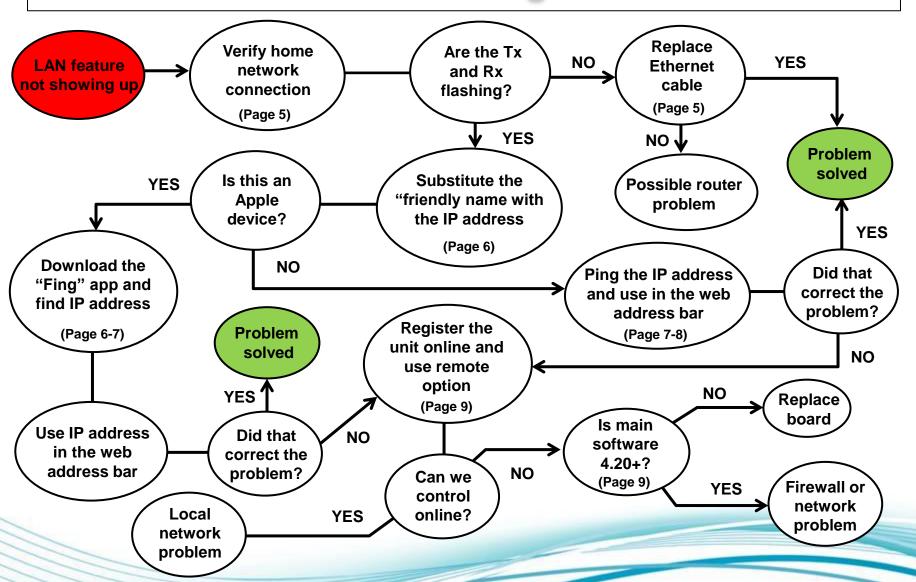
Keep holding down the teach button until the LEDs flash in unison; once flashing let go of the teach button and watch the LEDs.

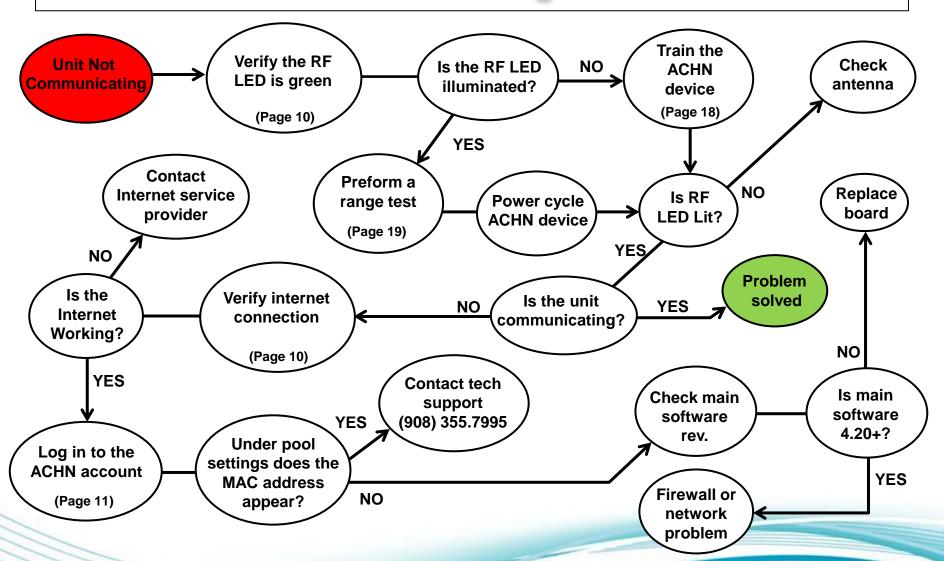


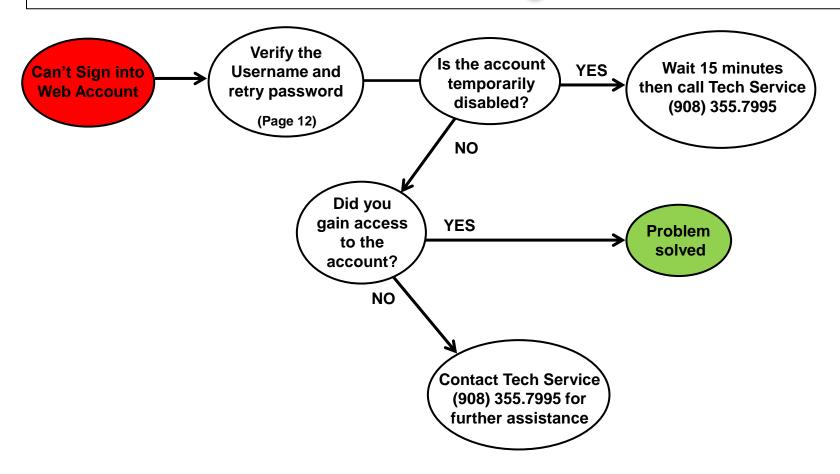
After two minutes the number of LEDs illuminated will indicate signal strength. 3-4 LEDs are desired, if less, reposition the ACHN or antenna and retest.

Note: If two LEDs or less appear after conducting a range test, relocate the base antenna or the ACHN device to achieve a stronger RF signal strength.

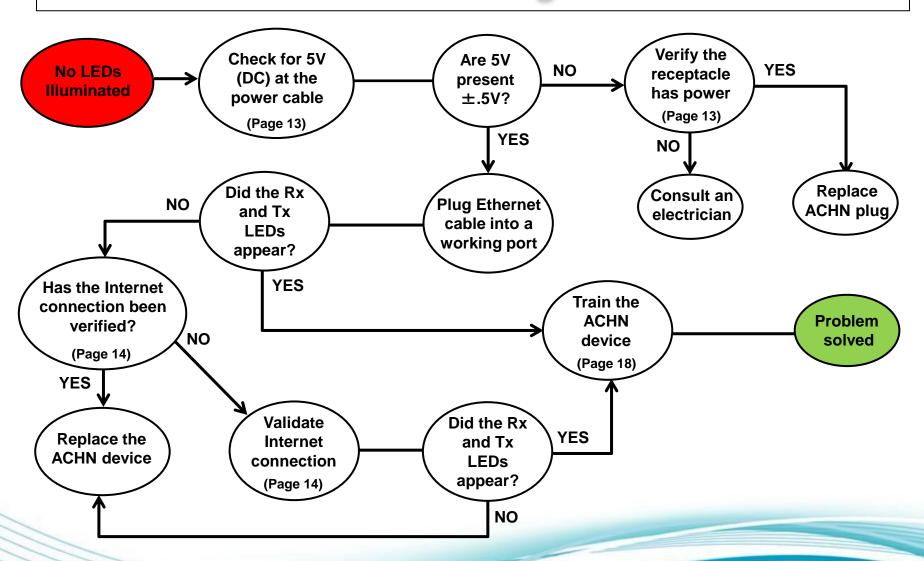


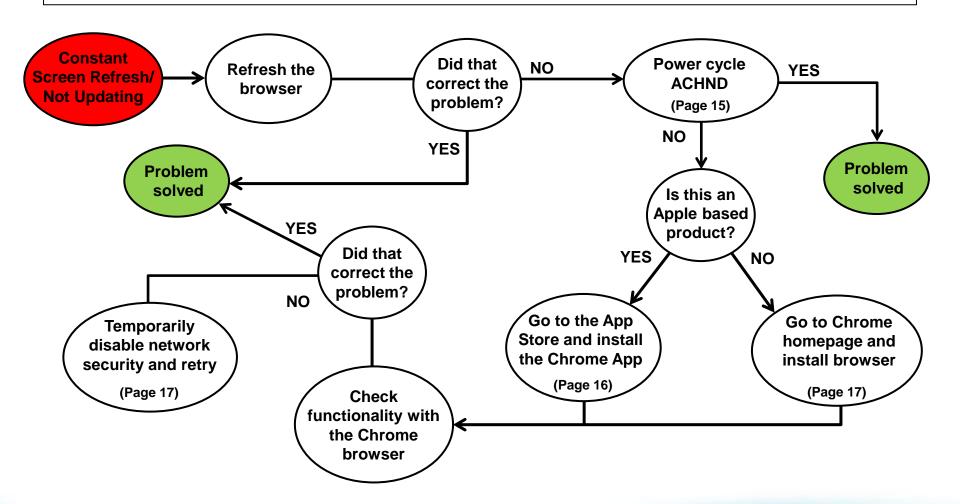






Note: If contacting technical support please have the username and email associated with the account available prior to calling.



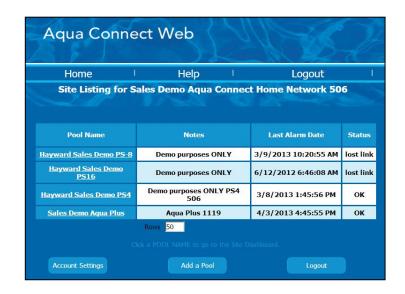


Setting up a Sub Account

 Log in to main account (www.aquaconnectweb.com)



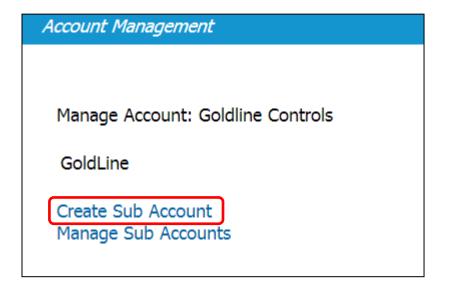
2. Click on Account Settings to create the Sub Account



Note: If accessing from a tablet or mobile device select the classic option at the bottom of the page.

Setting up a Sub Account

3. Scroll to the bottom and click on "Create Sub Account"



4. Populate all required info. including username and password

	Required fields ar	e in BOLD	
Account Description:	Paul's Sub Account		Used for accounts with more than one location.
User Name:Password:	username	•••••	Must be 6 or more characters without spaces
First / Last Name:	Paul	Poisson	
Phone Number:	(xxx)xxx-xxxx		Your contact information is never sold or traded.
Street Address:	xxxxxxxx		
Address Line 2:			
City:	North Kingstown		
State:	RHODE ISLAND	▼	
Zip Code:	02852		
Country:	Select one	▼	
Email Address*:	techservice@aqu	uaconnectweb.com	1

Setting up a Sub Account

5. Once Populated scroll to the bottom and select the "Add" button



6. Select the pool you wish to have access to via the site list (Note: step 6 and 7 will have to be done for every pool desired)



Setting up a Sub Account

7. Go to Pool Settings > Manage Access and change the level of access desired for each sub account created

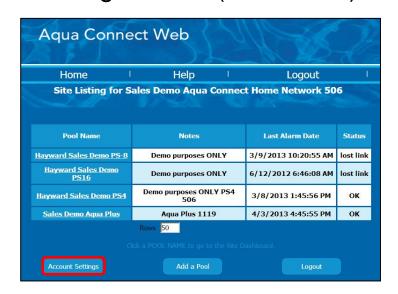
Account Description	Last Name	First Name	User Name	Account Unit Access Level	
a	a	a	agnerc	No Access ▼ □ Notifications	
paul sub	poisson	paul	ppoisson	Read Only V Notifications	
paul's sub	poisson	paul	ppoisson1	Read/Write Notifications	
Test Account	service	tech	tservice	No Access Notifications	
test	service	tech	t2service	No Access ▼ □ Notifications	
Johnny	Smith	Johnny	Johnny	No Access ▼ □ Notifications	
Rows 50					

Disabling a Sub Account

 Log in to main account (www.aquaconnectweb.com)



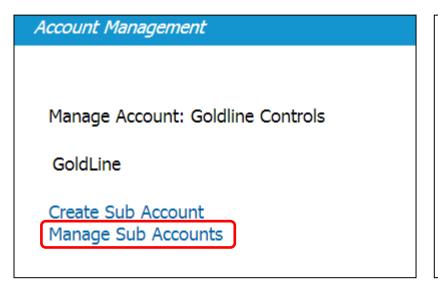
2. Click on the Account Settings button (bottom left)



Note: If accessing from a tablet or mobile device select the classic option at the bottom of the page.

Disabling a Sub Account

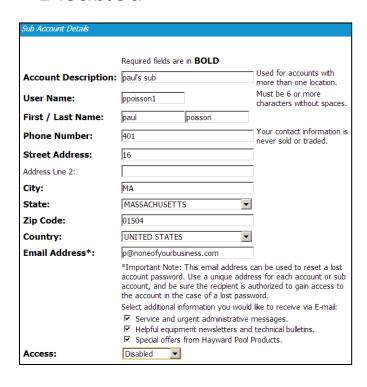
- 3. Scroll to the bottom and click on "Create Sub Account"
- 4. Click on the Sub Account we wish to disable



Account Description	Last Name	First Name	User Name	
<u>a</u>	a	a	agnerc	
<u>paul sub</u>	poisson	paul	ppoisson	
<u>paul's sub</u>	poisson	paul	ppoisson1	
<u>all pools</u>	poisson	paul	allpools	
Test Account	service	tech	tservice	
<u>test</u>	service	tech	t2service	
<u>Johnny</u>	Smith	Johnny	Johnny	
<u>John's sub</u>	Sub	John	johnsub	
Rows 50				

Disabling a Sub Account

5. Change access to "Disabled"



6. Scroll to the bottom and click "Save and Return" to finalize

