

Aquanomic EU – Quick Start Guide

PN 92592565 FN 47713_0402_0316

Hanging the Pump Cabinet

 $Review \ the \ installation \ requirements \ before \ installing \ Pump \ Cabinet \ (Section \ 2.0 \ of \ Installation \ Manual).$

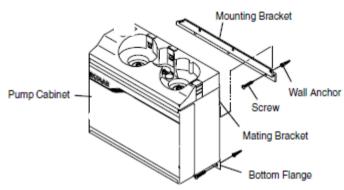
1. Position the offset bracket against the wall at eye level.

NOTE: On sheetrocked walls, align the center mounting hole to a wall Stud. Mounting bracket MUST BE securely anchored to the wall.

- 2. Using a pencil, outline each of the holes in the offset mounting bracket.
- 3. Drill the outlined holes with a 1/4" (6.35 mm) masonry bit and place a plastic wall anchor, into each hole.
- 4. Mount the bracket to the wall using the supplied screws into each wall anchor.

NOTE: Be careful when lifting the Pump Cabinet, it weighs 55 lbs (25 kg). If you must lift it yourself, hold it close to your body.

- 5. Lift the Pump Cabinet up and onto the mounting bracket, utilizing the mating bracket on the back of the cabinet.
- 6. With the Pump Cabinet on the wall, use a pencil to outline the center hole on the bottom flange.
- 7. Remove the Pump Cabinet from the wall.
- 8. Drill the outlined hole with a 1/4" (6.35 mm) masonry bit and place a wall anchor into the hole.
- 9. Lift the Pump Cabinet up and onto the mounting bracket, utilizing the mating bracket on the back of the cabinet.
- 10. Secure the bottom flange of the Pump Cabinet to the wall using the wall anchor.



Product Injection-Tube Installation

A single 1/2-inch (12.7 mm) O.D. Polyflo tube is used to deliver all three products to each laundry washing **PORS** himsortant the outlet tubing DOES NOT exceed 50-feet (15 meters) under normal installation.

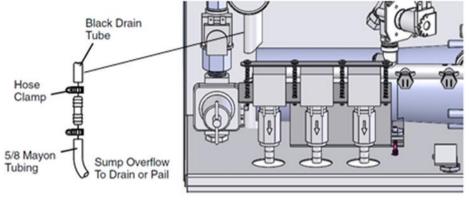
- 1. Remove the front cover on the Pump Cabinet and locate the solenoid valves/check valves in the lower left-hand corner of the cabinet. Laundry machine #1 is located on the left, #2 in the middle, and #3 on the right.
- 2. Connect the 1/2-inch Polyflo tubing to the solenoid valves/check valves mentioned above. Secure the connection with a hose clamp- see picture below.
- 3. Route the opposite ends of the 1/2-inch Polyflo tubing to the designated laundry machines (laundry machine #1, #2, and #3).
- 4. Before connecting the tubing to the injection ports on the laundry machines, drill out the port to maximum diameter.
- 5. Otherwise, the pump won't be able to deliver the solution because of the back pressure, due to the small hole.
- 6. Anchor the tubing to the wall or rigid piping to keep the installation looking neat and clean.

Overflow Connection

An overflow for the Pump Cabinet's sump is provided to direct the solution to a drain should the pump or water Method overflow (black drain tube) is located underneath the Pump Cabinet.

- 1. Measure the distance to the floor drain and cut your 5/8-inch (15.88 mm) I.D. Mayon tubing to the desired length.
- 2. Connect the supplied hose barb into the black drain tube located hanging underneath the Pump Cabinet.
- 3. Secure the connection with a hose clamp provided in the installation kit.
- 4. Route the opposite end of the Mayon tubing to a floor drain or drain trench.
- 5. If possible, try to secure the end of the Mayon tube to the floor drain with a cable-tie. This prevents the hose from being "kicked around".

NOTE: If a drain is unavailable, an empty five gallon pail (19 liter) should be used.



Machine Signal Interface (MSI) to Laundry Washer Wiring

- 1. Be sure the circuit breaker supplying power to the laundry machine is disconnected.
- 2. Remove the cover of the MSI module by removing the (4) screws that are on the cover.
- 3. Locate the washing machine supply signals inside the laundry machine. Refer to the Laundry Machine Wiring Handbook or Call Technical Service.
- $4. \ Route the supply signals through conduit or Seal-Tite into the conduit on the MSI module.\\$
- 5. Connect the supply signals into the supply signal input board.
- 6. Set the address dial to the appropriate washer #1, #2, or #3.
- 7. Repeat the preceding instructions for laundry machine MSI module # 2 and # 3 if required.
- 8. Re-connect the power to the laundry machine.

NOTE: Be sure to connect the green grounding wire from inside the MSI module to the laundry machine's earth ground. This is important for operator safety.

NOTE: The supply Signal Input board adjusts automatically to accept 24, 120 or 240 volt supply signals from the Washing machine.

NOTE: If Chart Stop feature is to be used, 2 additional wires must be pulled from Laundry Machine to Control Module.

Hot Water Supply Connection

Stainless Steel Braided Hose Plumbing Method

If you want to use a hose to supply water to the Pump Cabinet, the territory manager will be responsible for the correct hose and proper installation to their area or country.

Hard Copper Plumbing Method

If the water supply connection must be copper tubing, the territory manager will be responsible for the correct pipe fittings

and connectors. The hot water supply line must be a minimum 3/8-inch I.D. (9.5 mm) copper tube.

Do not solder the inlet connection, damage to the pressure regulator and water strainer may occur.

Pump Cabinet Power Supply

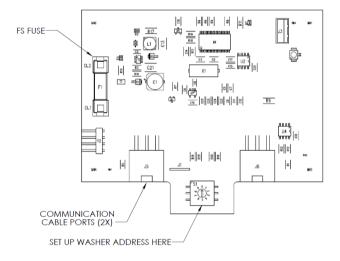
The territory manager will be responsible for the correct electrical power connector plug and proper installation, following local codes in their area or country. The Pump Cabinet's 9-foot (2.7 m) power cord can accept 230 VAC 50/60 Hz. If the power cord is not long enough, refer to Installation Manual for wire connections.

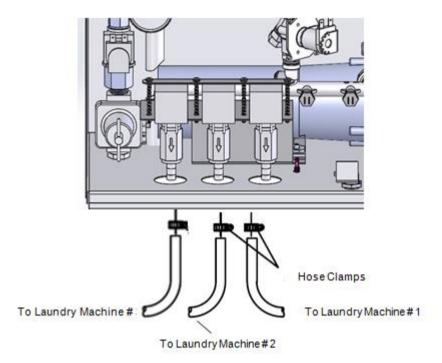
Communication Cables (RS-485 cables)

The RS-485 cables are used to connect signals between the Condor Controller, FS, MSI, and I/O board inside Pump Parimeter that the Pump Cabinet's power is turned OFF before connecting or disconnecting any cables.

- 2. Route cables between all modules, using a "daisy chain" or wiring in series.
- 3. After all modules are connected, insert end plugs in the ports at the start and end of the cable connections.

NOTE: If using the Formula Select (FS) modules, make sure to select washer number dial.

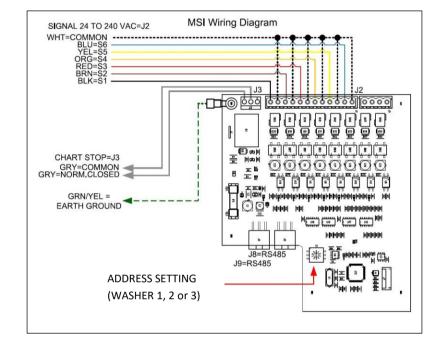


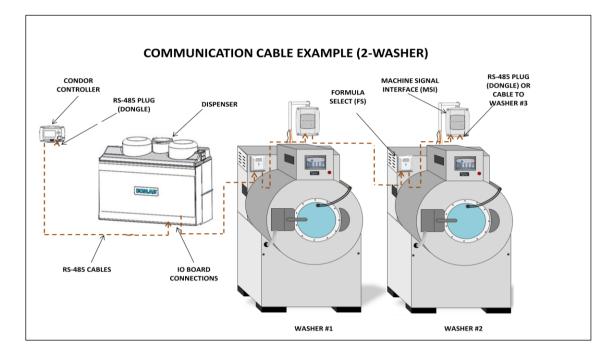


To Laundry Washer #1 (brown wires)

To Laundry Washer #3 (pink wires)

To Laundry Washer #2





ECELAB Aquanomic EU – Programming Flow Chart/Chart Stop/Operations Test – Quick Start

Introduction

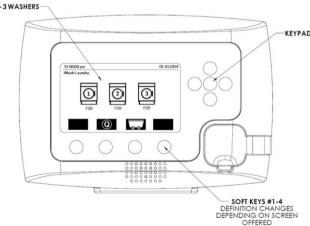
This section describes how to initially program the Condor Controller. Initial or quickstart programming is accomplished by using the Program Menu

Programming Overview

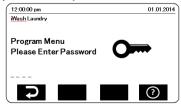
The controller is capable of displaying some graphics information, as well as text information. Icons are populated at the bottom of the controller display to indicate which soft keys (SK) are active.

Programming Icons	
◆▶	Use Left or Right Arrow keys to adjust a programming item
♦	Use Up or Down Arrow keys to scroll through sub-menus displayed in screen
	Save to memory
P	Back to previous screen (usually assigned to SK #1)
	Exit out of programming mode, back to main idle screen (customer's screen)
	Edit mode (note the use of a pencil)
	Copy mode
@ > >	Test a component (Formula Select, MSI, IO module for their revision of installed software)
	Edit a step (note the use of a pencil)
	Summary: list the information (in a formula)
	More: more information is available
A	Edit product. (note the use of a pencil)
3	Reset this selection ONLY
€ <u>₩</u>	Reset all (back to new factory settings)
X	No (to confirm a selection)
	Yes (to confirm a selection)
<u></u>	Disable (an audio alarm)
	Pump
0.0	On: activate a component (pump or valve)
	Off: de-activate a component (pump or valve)
Fishastrobele	Test the integrity of the pick-up probe and its wiring in a full container.
Escarbos to	Test the integrity of the pick-up probe and its wiring in an empty container.

Upon power up, the Condor will perform an initialization sequence (1-2 minutes) before displaying the main idle screen

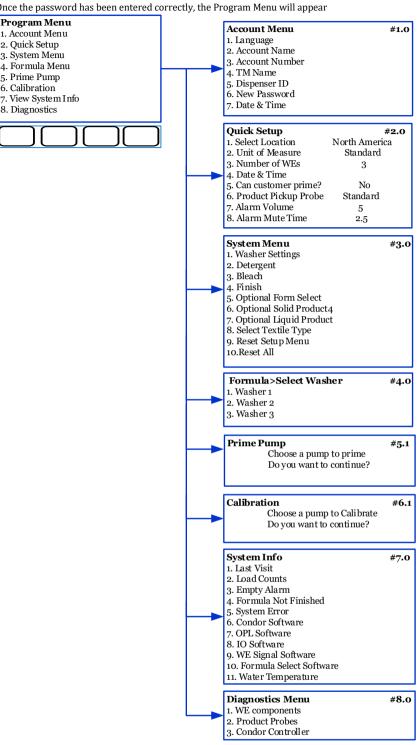


To enter the programming mode, press and hold the Center <Enter> key for 4+ seconds from the idle main screen. The controller should prompt the user for a password.



Enter the controller password by pressing <Up>/<Down>/<Left>/<Right>.

Once the password has been entered correctly, the Program Menu will appear

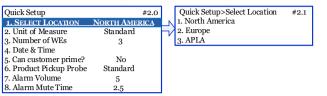


Quick Setup

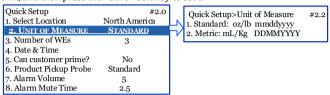
Enter the Account Menu, and then select the Language submenu. Use <up> and <Down> arrow keys to setup the Primary Customer Language, Secondary Customer Language, and TM Language, and then press the <Save> soft key to save



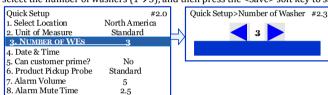
Enter the **Quick Setup** menu, and then select the **Select Location** submenu. Use <up> and <Down> arrow keys to select the location, and then press the <Save> soft key to save



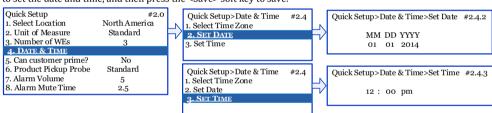
From the Quick Setup menu, select the Unit of Measure submenu. Use <up> and <Down> arrow keys to select the unit, and then press the <Save> soft key to save



From the Quick Setup menu, select the Number of Washers submenu. Use <Left> and <Right> arrow kevs to select the number of washers $(1\rightarrow 3)$, and then press the <Save> soft key to save.



From the Quick Setup menu, select the Date & Time submenu. Use <UP>, <Down>, <Left> and <Right> arrow keys to set the date and time, and then press the <Save> soft key to save.



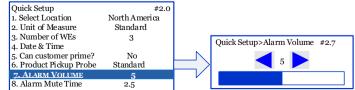
From the Quick Setup menu, select the Can Customer Prime? submenu. Use <UP> and < Down > arrow keys to select the option, and then press the <Save> soft key to save.



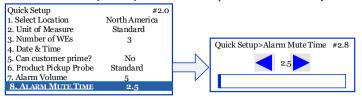
From the Quick Setup menu, select the Product Pickup Probe submenu. Use <UP>, <Down>, <Left> and <Right> arrow keys to set the standard delay (3+30), or the capacitive sensor option, and then press the <Save> soft key to



From the Quick Setup menu, select the Alarm Volume submenu. Use <Left> and <Right> arrow keys to select the Alarm Volume $(0 \rightarrow 10)$, and then press the <Save> soft key to save.

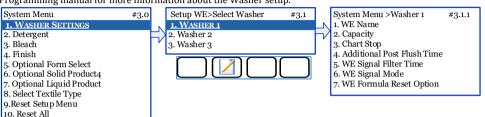


From the **Quick Setup** menu, select the **Alarm Mute Time** submenu. Use <Left> and <Right> arrow keys to select the Alarm Mute Time (2.5 \rightarrow 60) minutes, and then press the <Save> soft key to save.



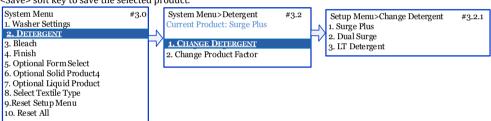
Washer Setup

Enter the **System Menu**, and then select **Washer Settings** submenu. Select washer1 and press <edit> soft key to update the washer settings. Use <Save> soft key to save the washer settings. Please refer to the Operation and Programming manual for more information about the Washer setup.



Solid Product Setup

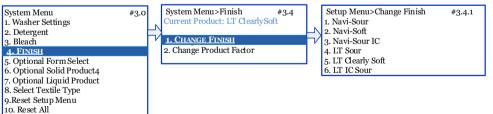
Enter the **System Menu**, and then select **Detergent** submenu. Select the desired detergent product and press <Save> soft key to save the selected product.



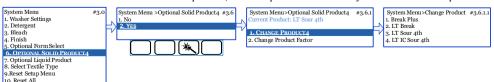
From the **System Menu**, select **Bleach** submenu. Select the desired bleach product and press <Save> soft key to save the selected product.



From the **System Menu**, select **Finish** submenu. Select the desired finish product and press <Save> soft key to save the selected product.

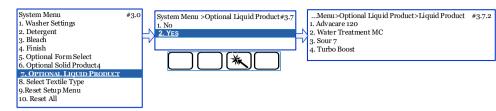


- If the optional forth product is installed in the system: Enter the **System Menu**, and then select **Optional Solid Product4** submenu. Select the desired forth product, and then press <Save> soft key to save the selected product.

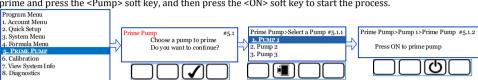


Liquid product Setup

- If the optional liquid product is installed in the system: Enter the **System Menu**, and then select **Optional Liquid Product** submenu. Select the desired liquid product, and then press <Save> soft key to save the selected product.

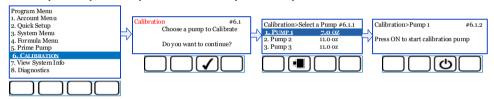


The liquid pumps then need to be primed to purge air from the product pickup tubes. To prime the pumps, enter the **Prime Pump** Menu, select <Yes> soft key, use <UP> and < Down > arrow keys to select the pump you want to prime and press the <Pump> soft key, and then press the <ON> soft key to start the process.



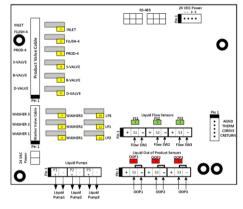
Once the pump has been selected, the user can begin priming. Maximum prime time is 30 seconds. If product has not reached pump head after a 30 second prime, repeat procedure.

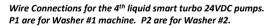
Calibration of the liquid pumps must be performed upon system installation and can also be performed periodically to verify the pump dosing is maintaining accuracy. To calibrate a liquid pump, enter the **Calibration** menu, select <Yes> soft key, use <UP> and <Down> arrow keys to select the pump you want to calibrate and press the <Pump> soft key, and then press the <ON> soft key to start the process.

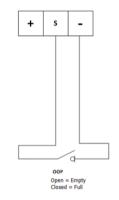


Once activated, there will be a 5 second delay followed by the pump activating for 60 seconds. At the end of the 60 seconds, the controller will prompt the user to input the amount of product dispensed.

- If the liquid Out-of-Product (OOP) float sensor is installed, connect the sensor output to the I/O board inside the Pump Cabinet as shown in the below picture:



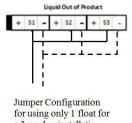




The '+' pins are reserved for the capacitive sensor (future use). Do not connect the '+' pins to float sensor

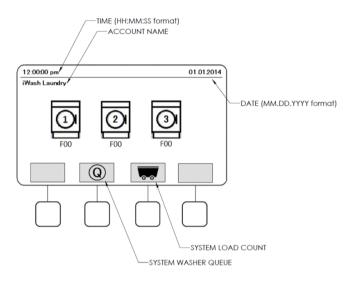
Currently the liquid product discharge tube should run separately to the laundry washer. In other words, install / route tubing from smart turbo pump to washer's chemical hopper.

If using only 1 float sensor (in 1 product pail) but it feeds all 3 washers, then the Out-Of-Product inputs must be connected in parallel, using jumper wires as shown in picture below:

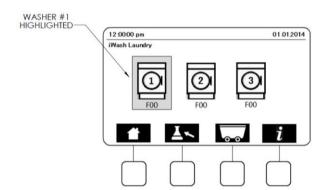


Customer Screen:

The following is the idle main screen for a 3-washer account:



Time, account name, and date are displayed, as well as the status of each of the 3 washers. In this case, all machines are idle (F00 no formula selected). Choosing soft key#2 (System Queue) will show all of the dispenser's chemical requests in the order that they will be dosed. Choosing soft key#3 (Load Counts) will list production load counts for all, or each, of the washers. Use the <Left> and <Right> arrows on the keypad to highlight/select any of the washers.



For example, Washer 1 is highlighted using the Left/Right arrow keys. Four soft keys are now made available:

SK #1: Home – navigates back to the main idle screen

SK #2: Select a Formula – prompts user to select a formula for Washer 1

SK #3: Load Counts – displays load counts for Washer 1

SK #4: Info – displays more information for Washer 1

Review System and Customer Daily Checklist

At the beginning of each day, it is highly recommended that account personnel verify proper system operation by performing the following checks:

- ✓ Check to ensure Condor Controller screen is on.
- ✓ Check Condor Controller screen for active alarms; clear alarms if necessary.
- ✓ Check system for any signs of chemical leaks/drippage.
- ✓ Check product level in product containers if using optional 4th liquid product.

If any issues are encountered with these checks, contact your Ecolab Sales Representative.