

BRIGHTWELL

REVOLUTIONARY DISPENSING SOLUTIONS



Quantura

Warewash Dosing System

Instruction Manual

Quantura 200 & Quantura 200S
Quantura 300 & Quantura 300S

US

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Important Safety Notes

Please read the following precautions carefully before using this equipment.

This unit contains high voltage circuits that may expose you to the danger of electric shock.



Means for disconnection must be incorporated in accordance with the wiring rules.



Do not open the enclosure without isolating the signal and supply sources.



Do not power the unit outside of the values stated on the rating label.



Do not use damaged or frayed cables.



Do not dismantle or modify this equipment.



Do not mount the unit to unstable, irregular or non-vertical surfaces.



Do not place heavy objects on top of the unit.



Do not attempt to place items (such as screwdrivers) into the moving parts of the Pump head.



Always ensure that care is taken when handling chemicals.



Never insert fingers into mechanisms without turning the power supply off first.



Do not discard manual; it must be retained.

Noise measurements performed with the microphone at 1m of distance from the appliance gave a value of 65.2dBA. The instantaneous peak was of 68dBC.

This unit must be installed by a suitably qualified personnel in accordance with local regulations, or in the absence of local codes, installed in accordance with the applicable requirements in the National Electrical Code, NFPA 70, Canadian Electrical Code (CEC), Part 1, CSA C22.1, and Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, NFPA 96.

Safety Precautions

Please read the following precautions carefully before using this equipment.

This appliance can be used by children from 8 years of age and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instructions concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Wear protective clothing, gloves and goggles when installing dispensers or handling chemicals. Observe the guidelines from the chemical manufacturer regarding safety advice. Follow the instructions carefully to avoid accidents.

If the supply cord or the triggering cable are damaged, they must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.

- **Do not open the enclosure without isolating the signal and supply sources.** Ensure that these sources have been isolated for a minimum of 5 minutes before entering the enclosure. **Means of disconnection must be incorporated in accordance with the wiring rules.**
- **Do not** mount the unit to unstable, irregular or non-vertical surfaces.
- **Do not** place heavy objects on top of the unit.
- **Do not** attempt to place item (such as screwdrivers) into the moving parts of the pump.
- **Do not** power the unit outside of the values stated on the rating label.
- **Do not** use damaged or frayed cables.
- **Do not** dismantle or modify this equipment.

Warranty






Your product comes as standard with a **2 year warranty from the date of manufacture**, against manufacturing fault or defects and mechanical or electrical breakdown. Please visit our website for full terms and conditions.

www.Brightwell-inc.com

Unit Variations

The Quantura range of dosing systems are designed to safely and accurately deliver Solid and Liquid Detergents, Rinse aids and Sanitizers to commercial dishwashers. The system has been developed to work with Single tank Door type machines and Conveyor, and Rack type machines. The system is available in four formats; 2 liquid dosing pumps, 1 liquid and 1 solid pump, 3 liquid dosing pumps or 2 liquid dosing pumps with 1 solid chemical pump.

Note: An additional loom can be purchased to allow the Q200 to have a solid rinse output.

Q200	2 Product peristaltic pump dosing system for the delivery of Rinse aid and Detergent chemicals to commercial Dishwashing machines	 A black rectangular dosing unit with a digital display and two peristaltic pumps. It has three colored outlets at the bottom: red, blue, and white.
Q300	3 Product peristaltic dosing pump system for the delivery of Rinse aid , Sanitizer and Detergent chemicals to commercial Dishwashing machines.	 A black rectangular dosing unit with a digital display and three peristaltic pumps. It has four colored outlets at the bottom: red, blue, white, and blue.
Q200S	2 Product Solenoid and peristaltic dosing pump system for the delivery of Rinse aid and Solid Powder Detergent chemicals to commercial Dishwashing machines.	 A black rectangular dosing unit with a digital display, one peristaltic pump, and one solenoid pump. It has two colored outlets at the bottom: blue and white.
Q300S	3 Product Solenoid and peristaltic dosing pump system for the delivery of Rinse aid , Sanitizer and Solid Powder Detergent chemicals to commercial Dishwashing machines.	 A black rectangular dosing unit with a digital display, two peristaltic pumps, and one solenoid pump. It has three colored outlets at the bottom: blue, white, and blue.
Q100	1 Product add on peristaltic dosing pump for the delivery of Sanitizer chemical to commercial Dishwashing machines. Only to be used in conjunction with Q200 or Q200S. Note: A Q300 is made up of Q200 & Q100	 A black rectangular add-on dosing unit with one peristaltic pump. It has two colored outlets at the bottom: blue and white.

Before Installation

Ensure you have checked all parts required are present and inspect for any damage before installation. In the unlikely event that your items are faulty, **DO NOT** install faulty or damaged parts as this is unsafe and will void any warranty. Please return goods to your distributor in the original delivery condition including any packaging. This unit is **ONLY** to be installed by a suitably qualified person complying with local regulations.

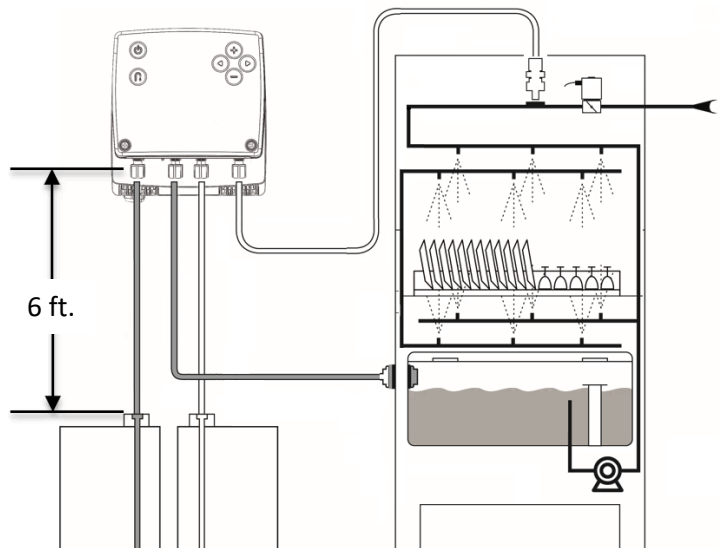
Quantura 200 or 200s		Tank Injector x 1 (Liquid System Only)	
Peristaltic Tube Pack		Polyethylene Tubing 20 ft. roll	
Tube Stiffener x 2		Fixing Pack: Screws x 4 & Wall Plugs x 4	
Rinse Injector x 1		Full Manual	

Installation Location

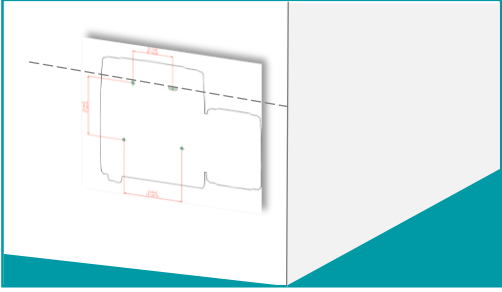
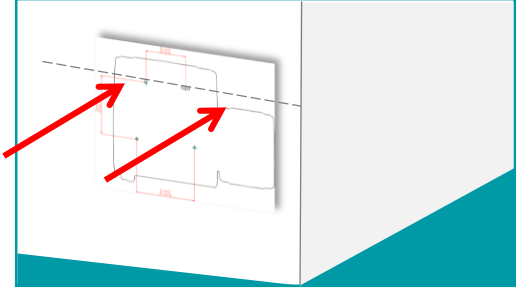
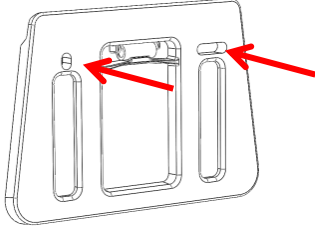
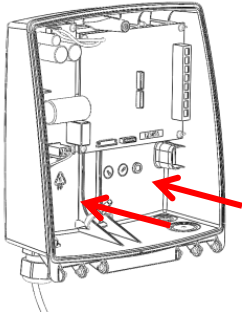
When mounting the unit to ensure best performance practise, ensure that it is positioned no further than 6 feet from its chemical supply.

PLEASE NOTE:

The unit must be mounted in an upright orientation and level horizontally. The unit is IP55 rated however it is recommended that it is kept away from extreme sources of heat and steam as this may damage the unit over time. Access will be required for general maintenance by your service technician.



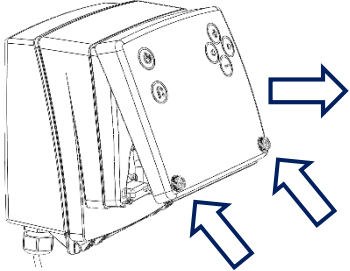
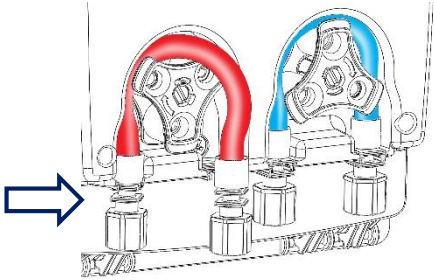
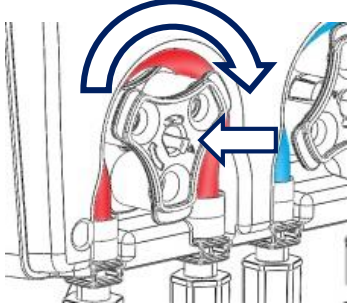
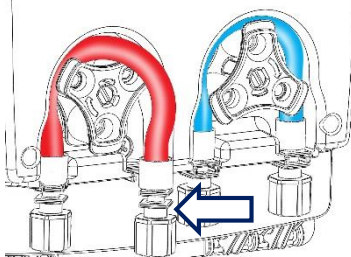
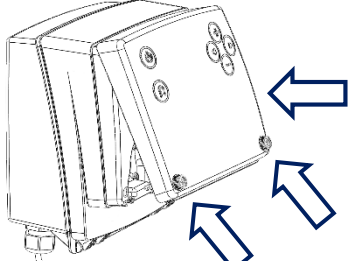
Mounting the Unit

<p>Step 1</p> <p>Mark a horizontal line on the intended wall using a spirit level. Line up the drilling template supplied with the horizontal line you just marked on the wall.</p>	
<p>Step 2</p> <p>Using a 5.5mm drill bit, drill pilot holes for the supplied wall plugs and wall bracket.</p> <p>IMPORTANT NOTE: please also drill for the security fixing also marked on the template, as this will be used later in the installation (see Step 4).</p>	
<p>Step 3</p> <p>Using the wall plugs and screws supplied with this unit, fix the mounting bracket to the wall. There is an embedded spirit level to aid with this part of the installation.</p>	
<p>Step 4</p> <p>Mount the unit to the wall by hooking it onto the wall bracket. Please note: If you are connecting a third pump refer to the additional manual supplied with the unit before securing both units to the wall.</p> <p>IMPORTANT NOTE: The main unit MUST have a security fixing retaining it to the wall before the unit lid is closed.</p>	

IMPORTANT INFORMATION

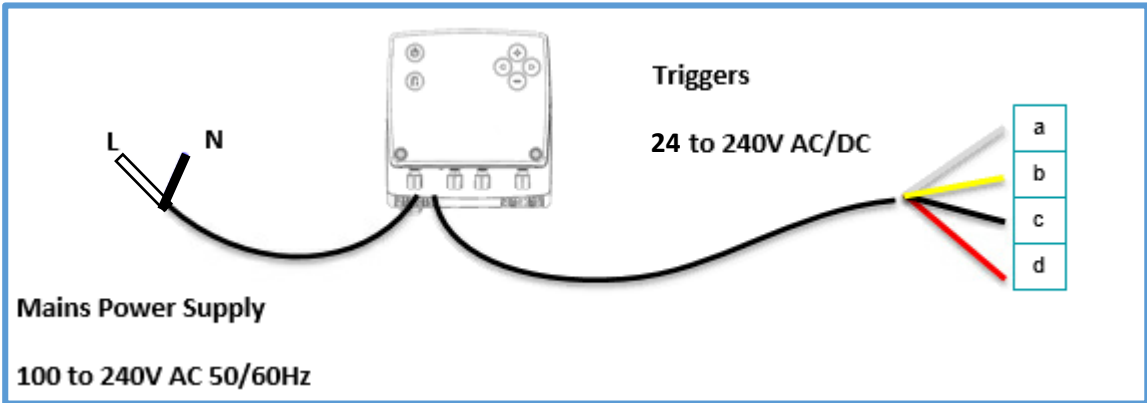
Brightwell Dispensers Ltd (manufacturer) accepts no responsibility and/or damages caused to either the product or premises if the installation process is not complied with in full.

First Installation of Peristaltic Tubing

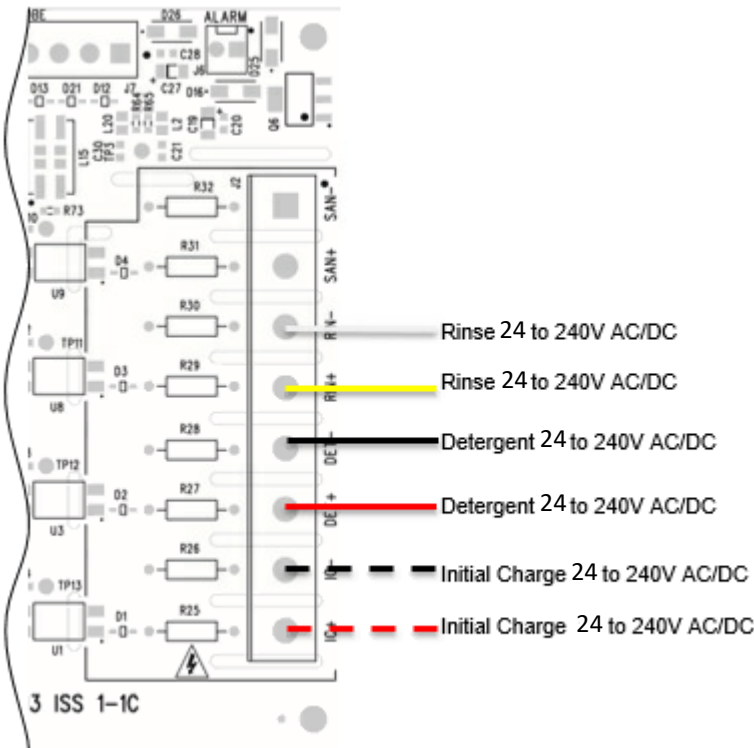
<p>Step 1</p> <p>Ensure there is no power to the unit or it is in standby mode. Remove the front cover by removing the two screws and pulling the cover towards you as shown.</p>	
<p>Step 2</p> <p>Insert one end of the tube ensuring that it is slotted into the body of the housing as shown.</p> <p>PLEASE NOTE: For the variants Q200s and Q300s Pump 1 is replaced with a Solenoid valve. This is intended to have a permanent connection to the water supply.</p>	
<p>Step 3</p> <p>Now by manually rotating the pump head, feed the tube into the unit as shown. TIP - use some HT5 Silicone grease on the outer of the tube to help ease the tube in and prevent any snagging. There is also a flat head screw driver slot on the end of the spindle. Turn this with a screwdriver in a clockwise direction to assist installation.</p>	
<p>Step 4</p> <p>Slot the other end of the tube as shown. Repeat steps 2 to 4 for the other pump head.</p>	
<p>Step 5</p> <p>Refit the outer lid and tighten the screws until secure.</p>	

Wire Configurations

IMPORTANT: The unit must have a means of disconnection from a mains power supply and all trigger supplies, either from a fuse spur, mains plug, or direct connection to the dishwasher. The disconnecting device should provide all poles separation. Should the appliance be connected directly to a host machine, a lock off tag or similar method should be considered on the machines isolating switch to ensure mains power is completely isolated before any work is carried out.



White: (a) Rinse Trigger	Black: (c) Detergent or Probe Trigger
Yellow: (b) Rinse Trigger	Red: (d) Detergent or Probe Trigger



IMPORTANT: Cable Colour Code:
 White – Rinse Trigger
 Yellow – Rinse Trigger
 Black – Detergent or Probe Trigger
 Red – Detergent or Probe Trigger

Should a signalled Initial charge be required simply move the red and black core from the detergent input to the Initial charge input.

When LINK rinse & det option selected, rinse signal will operate both Detergent and Rinse

Choosing One of Three operating modes

Probe Mode – Pages 11 & 17

Suitable for both Single tank machines and Conveyor/multi tank machines. Probe mode offers controlled dosing of detergent with the use of a conductive probe. The probe is then set to dose to a specific level of concentration and will monitor the concentration adjusting the dosage accordingly. Rinse is controlled by a signal from the dish machine and can be set to run continuously whilst a rinse signal is present or it can be set to run on a timed basis (common in Europe).

Probeless Door – Pages 12 & 24

Suitable for single tank machines. Probeless Door mode operates on a timed dosage of Detergent, Rinse activated by an incoming signal from the Dish machine. Detergent dosage is programmed via a time setting. Rinse dosage can be either a time setting or programmed to run for the duration of the incoming signal. Optional delay time for rinse is available. Initial charge options are **Signalled** requiring a signal from the dish machine to the Initial charge input of the PCB (see page 12 for wiring instructions), **Power up**: Initial charge activates when the dosing pump is powered for the first time, **OFF** no Initial charge, **Auto**: When the signal remains high for longer than a programmable time the dispenser will stop the Rinse charge and start the initial charge. A single signal from the dish machine can be taken to operate detergent charge and rinse charge by changing the “Link Detergent and Rinse signals” option found on page 28.

Probeless Conveyor – Pages 13 & 29

Suitable for Conveyor/Multi tank machines. Probeless Conveyor mode operates on a timed dosage of Detergent, Rinse activated by an incoming signal from the host machine. Detergent dosage is programmed via a time setting. Rinse dosage for the duration of the incoming signal. Optional delay time for rinse is available. Initial charge options are Signalled requiring a signal from the host machine to the Initial charge input of the PCB (see page 13 for wiring instructions), Power up: Initial charge activates when the dosing pump is powered for the first time or OFF no Initial charge.

NOTE: the probe can still be fitted even when set in probeless mode, it will display the probe reading and the tank temperature on the Info screen. This feature allows you to quickly see that the dish machine is keeping to titration when in probeless mode and also allows you to ensure the temperature of the tank is correct.

Probe Mode

Detergent Operation

Concentration is controlled by the conductivity probe (See page 17 for probe settings) in either Signalled or Auto operation. Signalled operation, probe is initiated for the duration of a trigger signal between 24V and 240V AC or DC being present on the Detergent input of the PCB (Red and Black cores of 4 core cable). In Auto operation, the probe will operate on low concentration without the need for a trigger signal. We recommend setting the no water alarm if set to auto operation.

Rinse Charge

(Rinse) is initiated by a signal between 24V and 240V AC or DC being present on the Rinse input of the PCB (Yellow and White cores for the 4 core cable). Rinse options are to operate for the duration of the signal with optional delay time or a Programmable run time (this option is usually used on a European Dish machine)

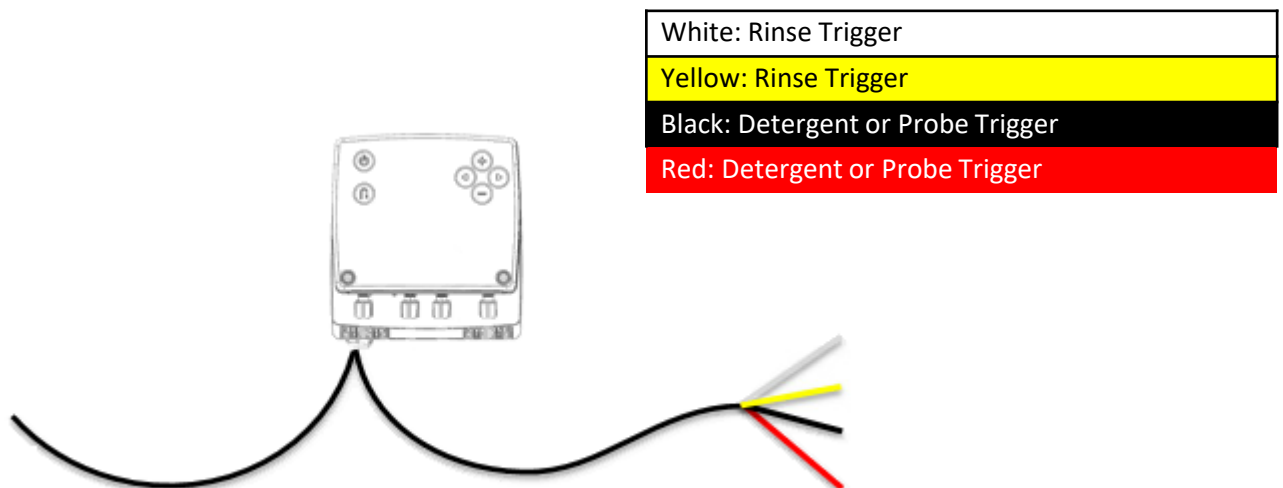
Sanitizer Charge

(Sanitizer) is normally set to run proportional to Rinse without the need for a independent trigger signal. If it is not set to run with the Rinse, then a cable will need to be taken to Sanitizer trigger input (see page 9 for board diagram) and will operate as below:

Sanitizer Charge is initiated by a signal between 24V and 240V AC or DC being present on the sanitizer input of the PCB. Sanitizer options are to operate for a programmable run time with optional delay time.

Sanitizer options are only applicable when a 3rd pump (Q100) is connected to the Q200.

Should a **Signalled Initial Charge** be required, a signal between 24V and 240V AC or DC can be applied to the Initial charge input of the PCB (see page 9 for board diagram)



Probeless Door Mode

Detergent and Rinse Operation (Initial Charge, Recharge and Rinse)

Initial charge is the first dosage of detergent into the dishwasher tank to meet titration of the machine.
Recharge is the amount of detergent required to maintain titration.

They are initiated by a signal between 24V and 240V AC or DC being present on the Rinse input of the PCB (Yellow and White cores for the 4 core cable). Detergent has a programmable run time, Rinse options are to operate for the duration of the signal or programmable run time with optional delay time.

Separate Detergent and Rinse charges are available by changing the “Link Detergent and Rinse signals” option found on page 28. If the signal option is changed to separate the two signals, the below becomes applicable:

Detergent charge (Recharge) is initiated by a signal between 24V and 240V AC or DC being present on the Detergent input of the PCB (Red and Black cores for the 4 core cable). Detergent will operate for a programmable run time.

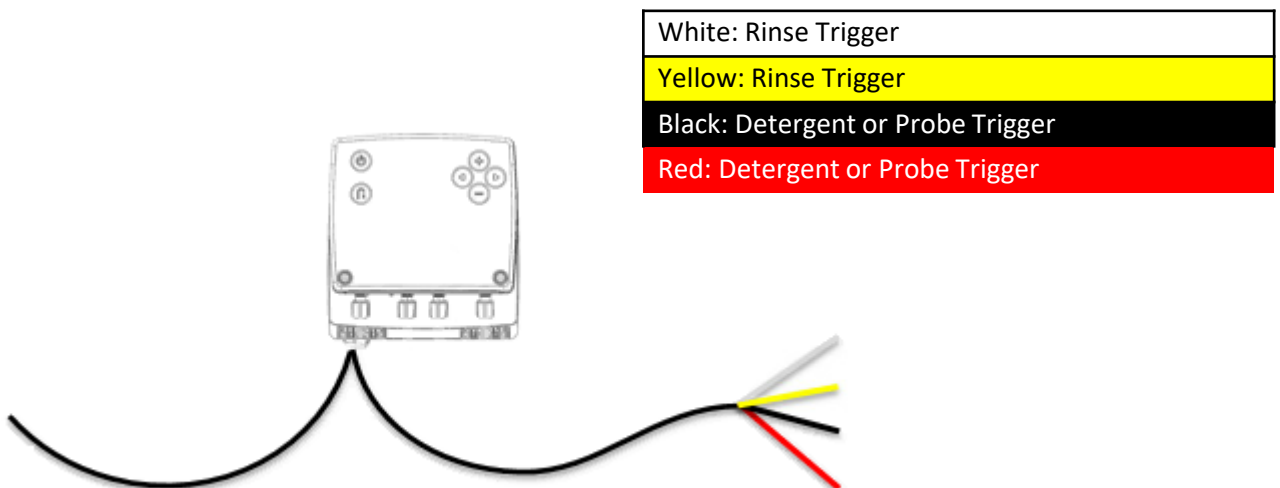
Rinse Charge (Rinse) is initiated by a signal between 24V and 240V AC or DC being present on the Rinse input of the PCB (Yellow and White cores for the 4 core cable). Rinse options are to operate for the duration of the signal or programmable run time with optional delay time.

Sanitizer Charge

(Sanitizer) is normally set to run proportional to Rinse without the need for a independent trigger signal. If it is not set to run with the Rinse, then a cable will need to be taken to Sanitizer trigger input (see page 9 for board diagram) and will operate as below:

Sanitizer Charge is initiated by a signal between 24V and 240V AC or DC being present on the sanitizer input of the PCB. Sanitizer options are to operate for a programmable run time with optional delay time.

Sanitizer options are only applicable when a 3rd pump (Q100) is connected to a Q200.



Probeless Conveyor Mode

Detergent and Rinse Operation (Initial Charge, Recharge, and Rinse)

Initial charge is the first dosage of detergent into the dishwasher tank to meet titration of the machine. Recharge is the amount of detergent required to maintain titration.

They are initiated by a signal between 24V and 240V AC or DC being present on the Rinse input of the PCB (Yellow and White cores for the 4 core cable). Detergent has a programmable Rack time, Rack pulse and run time, Rinse runs for the duration of the signal with configurable delay time activated by the rinse signal going high.

Separate Detergent and Rinse charges are available by changing the “Link Detergent and Rinse signals” option found on page 32. If the signal option is changed to separate the two signals, the below becomes applicable:

Detergent charge (Recharge) is initiated by a signal between 24V and 240V AC or DC being present on the Detergent input of the PCB (Red and Black cores for the 4 core cable). Detergent will operate for the duration of the signal with optional delay time (Rack count).

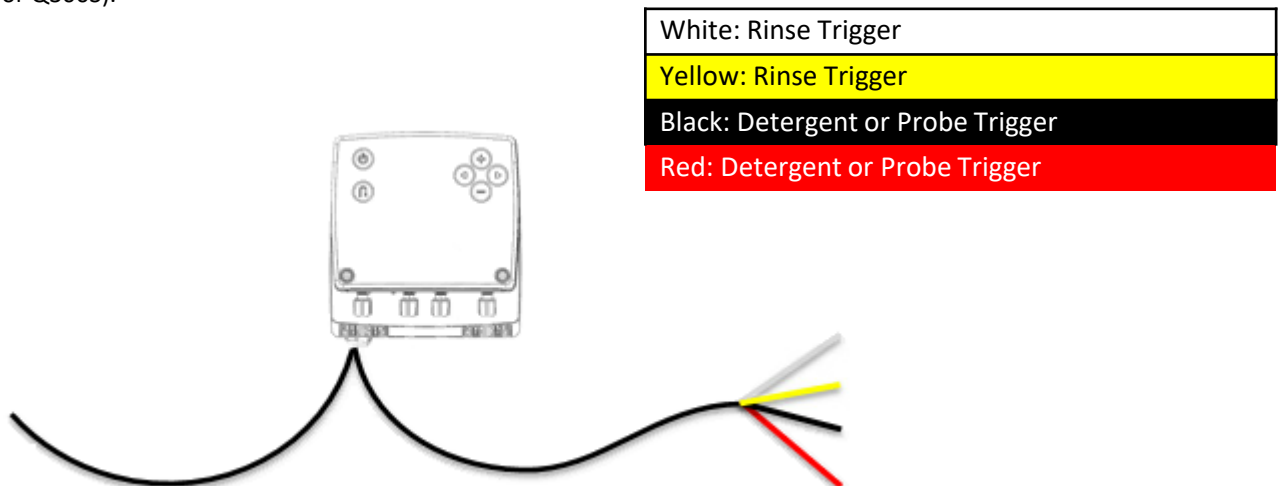
Rinse Charge (Rinse) is initiated by a signal between 24V and 240V AC or DC being present on the Rinse input of the PCB (Yellow and White cores for the 4 core cable). Rinse runs for the duration of the signal with configurable delay time.

Sanitizer Charge


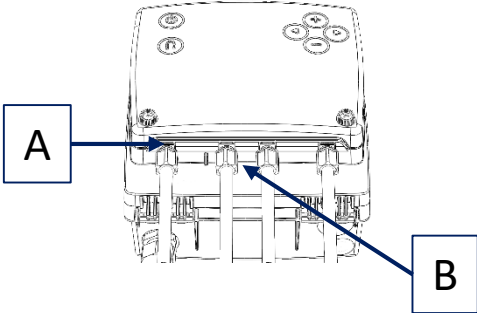
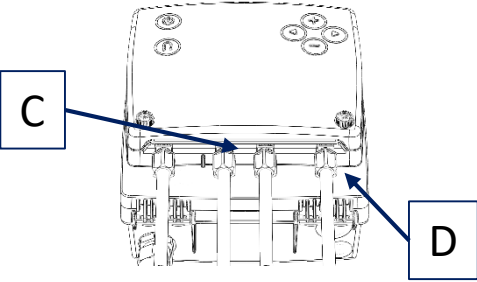
(Sanitizer) is normally set to run proportional to Rinse without the need for a independent trigger signal. If it is not set to run with the Rinse, then a cable will need to be taken to Sanitizer trigger input (see page 9 for board diagram) and will operate as below:

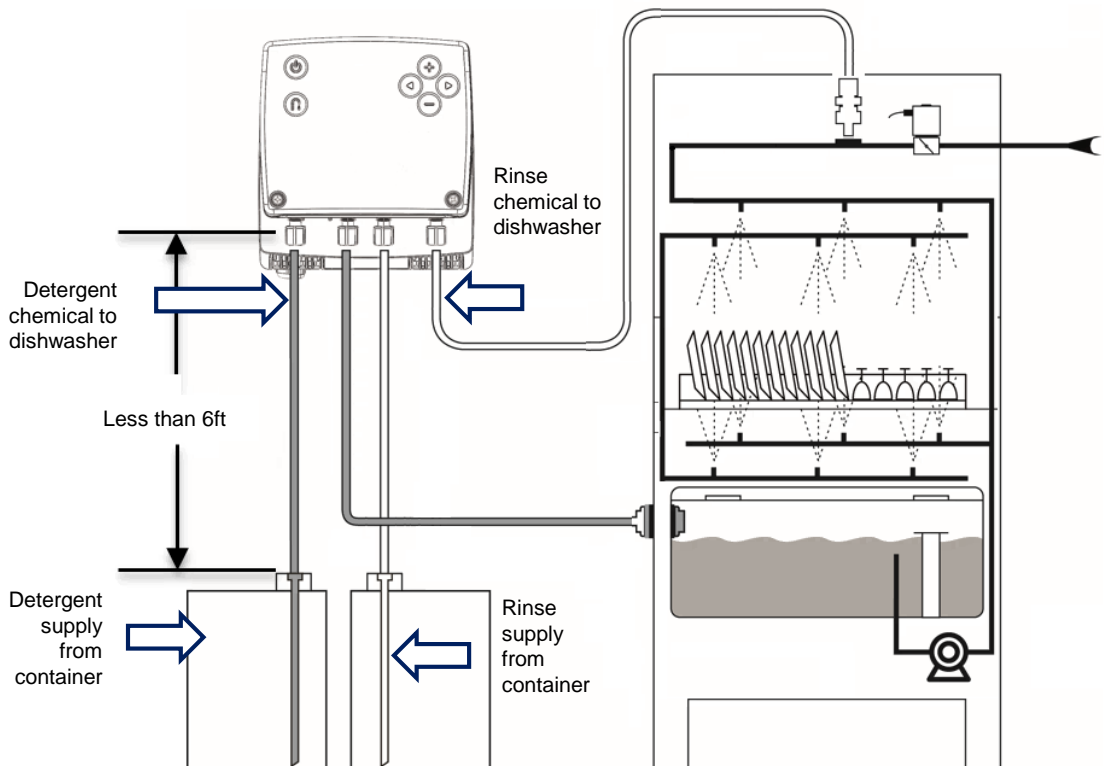
Sanitizer Charge is initiated by a signal between 24V and 240V AC or DC being present on the sanitizer input of the PCB. Sanitizer options are to operate for a programmable run time with optional delay time.

Sanitizer options are only applicable when a 3rd pump (Q100) is connected or when using a 3 pump system (Q300 or Q300S).

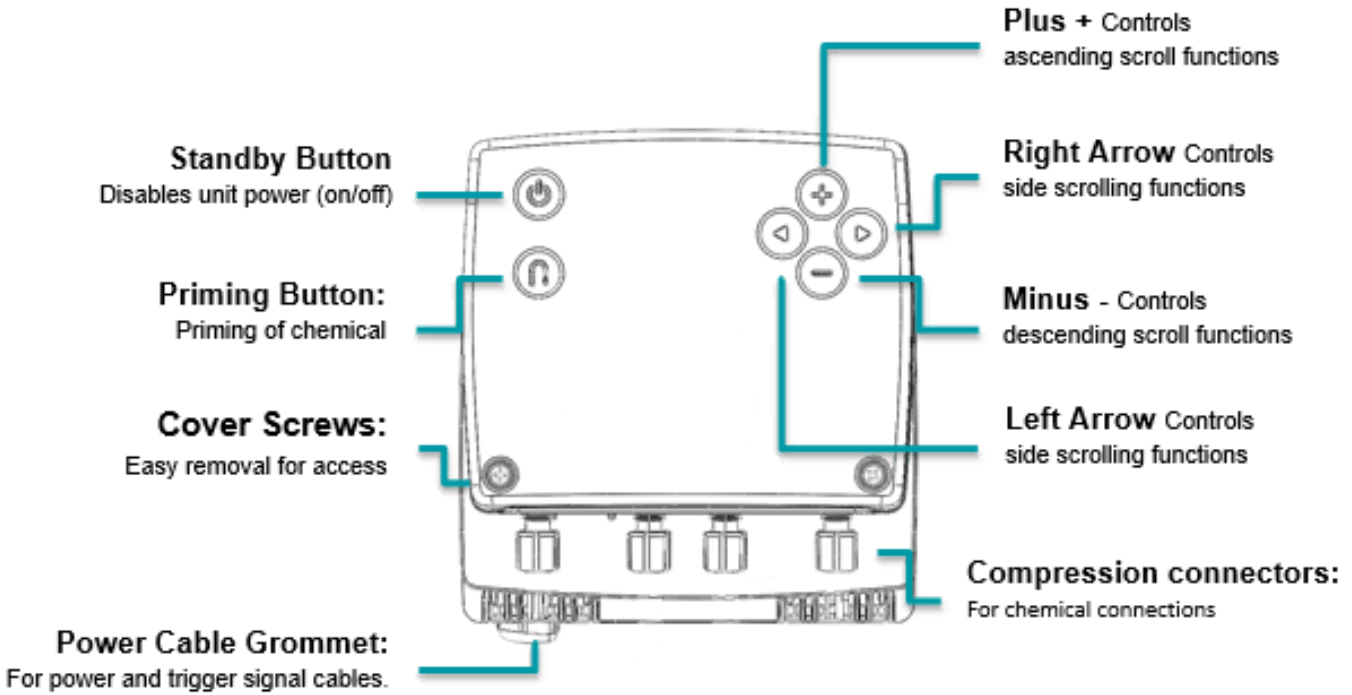


Connecting Chemical Supplies

<p>Step 1</p> <p>Attach the suction tubes to the tube stiffeners and place in the chemical containers.</p>	
<p>Step 2</p> <p>Connect your detergent suction tube to the far left hand compression connector (a), this is the corresponding pump you intend to use with this chemical.</p> <p>Then connect the detergent delivery tube (b) to your dishwasher tank injector.</p>	
<p>Step 3</p> <p>Connect your rinse aid suction tube to the left hand compression connector (c), this is the corresponding pump you intend to use with this chemical. Then connect the right hand compression connector (d) to the rinse aid delivery tube, the other end of this tube is to be connected to your rinse injector.</p>	



Initial Set Up & Operation



Navigating the Menu's and the rest of the manual.

Language American

Blue Menu's are visible in all modes.

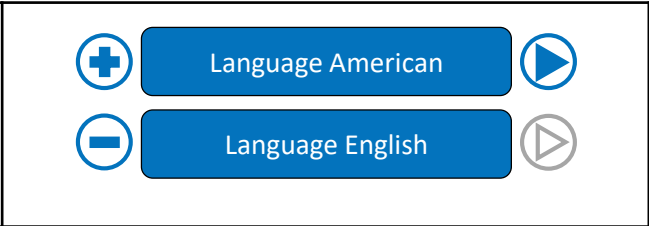
Initial Charge Off

Yellow Menu's are advanced options and will only show if Advanced Setup is Selected when entering the menu.

Sanitizer to Copy Rinse No

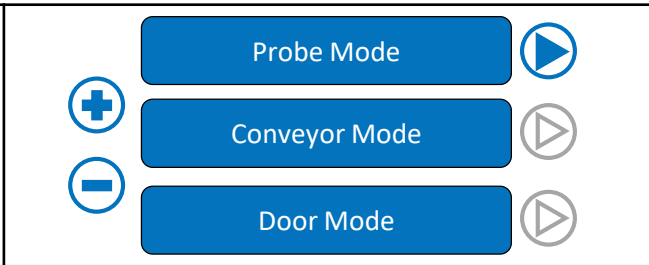
Green Menu's are only shown when a 3rd Pump is attached and the unit becomes a Q300.

Step 1: When power is connected the unit will automatically power up. Now select your language using the Plus + or Minus – buttons to scroll up and down, press the RIGHT button > to confirm your selection.
***Select American DO NOT select English (Press +)**

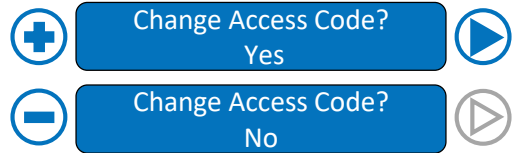


The unit can be configured with an optional 4-digit access code to prevent unauthorized access to configuration parameters.

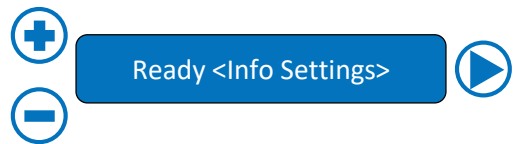
Step 2: This menu will allow you to select on of three operating modes; use the Plus + or Minus – buttons to scroll up and down, press the RIGHT Button> to confirm your selection.



Step 3: To setup the unit with an access code, press the Plus + or Minus – buttons to select YES, then press the RIGHT arrow > to confirm the selection and move on to step 5.
If change to access code No is selected, move onto step 4 and the **default 1111** code will be set.

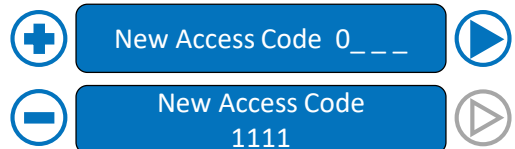


Step 4: To setup the unit **without** an access code. Press the Plus + or Minus – buttons to select **NO**, and then press the right > arrow to confirm the selection. The screen displays 'READY' and is prepared for programming. Press the RIGHT button > to confirm this selection and move onto **step 6**.



Step 5: To set an access code press the Plus + or Minus – buttons to choose a number. Then press the RIGHT > button to confirm the selection and move on to the next number in the code.

Repress RIGHT > button to confirm.



IMPORTANT: Solenoid Variants: The **Q200S** and **Q300S** Solenoid variants of this unit follow the same process functions as Recharge (Detergent) throughout this manual, in all 3 program modes listed below. **Please note:** Speed percentage function is not applicable to Solenoid variants.

Step 6: Choosing an Operating Mode

Probe Mode: Pages 17-23 Probeless Door Mode: Pages 24-28 Probeless Conveyor Mode: Pages 29-33

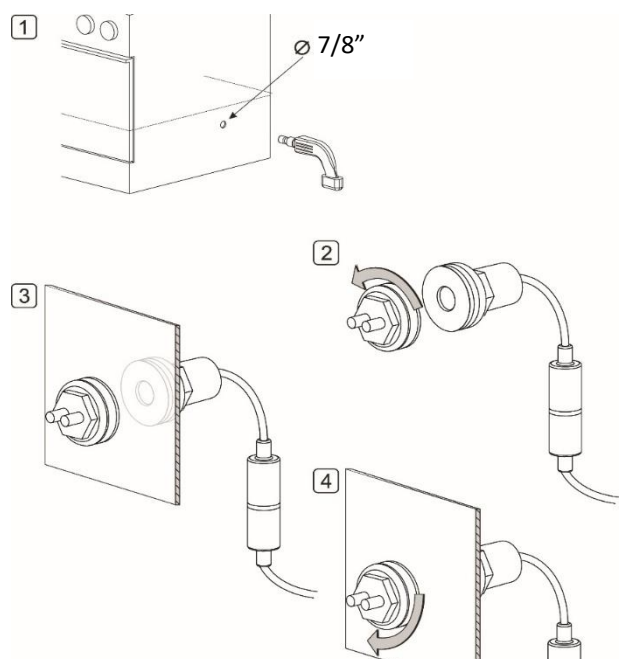
Prior to Installation: Please note: For best performance the probe should be mounted the opposite side of the wash tank from the chemical injection point.

Step 1: Start by drilling a 7/8" hole.

Step 2: Unscrew the head of the probe by turning it anti-clockwise.

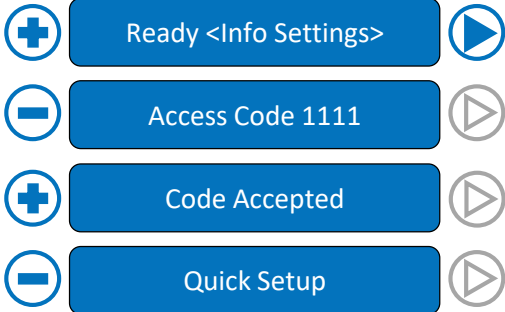
Step 3: Feed the body of the probe through the hole.

Step 4: Replace the head of the probe and tighten in a clockwise direction.

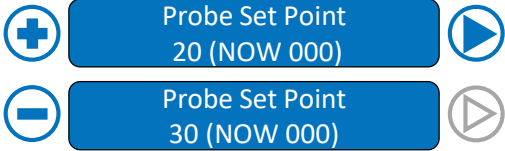


Quick Set Up Programming: Probe Mode

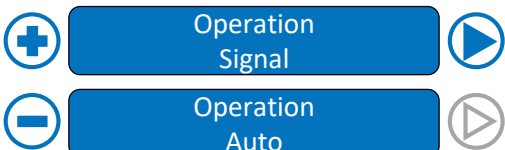
Probe mode - Detergent probe controls the dosage of detergent with adjustable delay time for the initial fill. Optional initial charge is also available.

<p>Step 1: Start by pressing the RIGHT > button (a). Enter your unique 'Access Code', by using the left and right buttons to select each number and press the Plus + or Minus – buttons to change its value. Now press the RIGHT > button to confirm (b). The screen will now state 'Code Accepted'(c). The 'Quick Set Up' screen will now appear, confirm selection by pressing the RIGHT > button (d).</p>	
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Probe set point – Configurable chemical concentration point at which the pump will begin to dose should the level fall below the set point. The screen also features a NOW display which will display current levels of concentration and the tank temperature.

<p>Step 2: Probe set point: Using the Plus + or Minus – buttons to select your chosen 'Probe Set Point' choose between the range of 0-250 (examples shown right). Confirm your selection by pressing the RIGHT > button.</p>	
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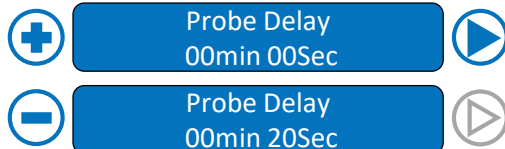
Signal Operation is default setting which will require a signal to the DET input (Red and Black cores) to activate the probe when concentration levels drop below the set point. '**Auto Operation**' – Probe will automatically react to a drop in concentration.

<p>Step 3: Operation: Choose between 'Signal Operation' or 'Auto Operation' by using the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	
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Probe delay – A configurable delay time, which will occur once after first power up. This feature allows for tank fill to take place before the probe begins checking concentration levels usual set to 0 if signal operation is selected.

Step 4: Probe delay: to set the probe delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.

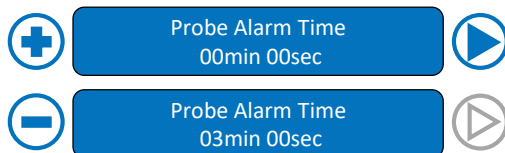
Note: If set to signal operation, leave delay at zero.



Probe alarm time – Configurable alarm time. If the pump exceeds a run time higher than the alarm time, display a warning light and sound a buzzer to indicate a potential issue with water levels or chemical supply

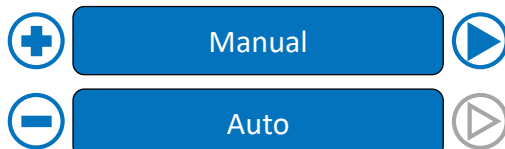
Step 5: Probe alarm time: Set the time for the internal alarm to sound when the unit has run and not met concentration Use the Plus + or Minus – buttons to change the units. Confirm your selection by pressing the RIGHT > button.

NOTE: To change probe alarm reset function Manual to Auto, press prime button on this screen.



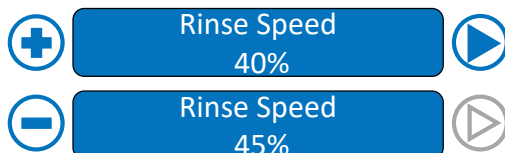
Probe alarm Reset – The probe reset allows the user to set either manual or Auto. Manual reset will sound the alarm and stop the detergent pump, which the requires any button to be pushed to reset the alarm condition. AUTO will sound the alarm and look for a change in concentration before automatically resetting the alarm.

Step 6: Probe Alarm Reset. Note: This feature will only be available when PROBE OPERATION is set to SIGNAL. The default option is manual but can be changed using the Plus + or Minus – buttons to change your selection and pressing the RIGHT> button to confirm.

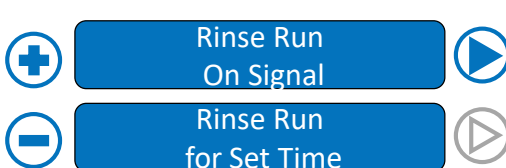


Rinse Speed – Adjustable Rinse Pump speed option in increments of 5%

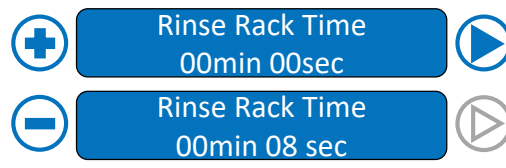
Step 7: Rinse speeds: to set the running speed of the pump, use the Plus + or Minus – buttons to select, (this is shown as a percentage %). Confirm your selection by pressing the RIGHT > button. TIP By pressing prime button you can simulate the setting.



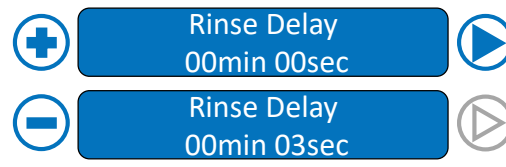
Rinse operations – Configurable rinse operations. “Run on signal” allows the rinse pump to operate for the duration of a rinse signal on RINSE INPUT. “Run for set time” is a configurable run time Rinse will activate for when a signal is received on RINSE INPUT.

<p>Step 8a: Rinse operation: to set the operation of the rinse pump, use the Plus + or Minus – buttons to select ‘rinse run on signal’, select ‘rinse run for set time’. Confirm your selection by pressing the RIGHT > button.</p>	
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Rack time (Run on Signal Only) – Programmable time to record the duration of one rack entering and exiting the machine. This time is used to calculate the wash count when the rinse pump is running constantly on a conveyor machine, if fitting on a door machine, leave at zero and it will count up on every signal.

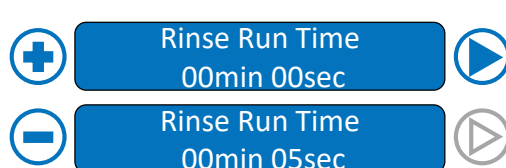
<p>Step 8b: Rack time: to set the rack time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p> <p>Note: leave at zero if connecting to a door machine</p>	
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Rinse Delay Time – Configurable delay time for rinse, when the rinse signal is received to the RINSE INPUT the delay time will activate before allowing the rinse pump to operate

<p>Step 9: Rinse delay time: to set the delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	
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Rinse Run Time (Rinse Run for set time only, is a European dish machine option) –

Configurable run time for rinse operation when a signal is received to RINSE INPUT. Using the UP and DOWN buttons, it is possible to select rinse to operate for the duration of the signal ‘Rinse on Signal’.

<p>Step 10: Rinse run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button, repeat for changing the seconds. Go to Step 15 if you are not connecting a 3rd Pump.</p>	
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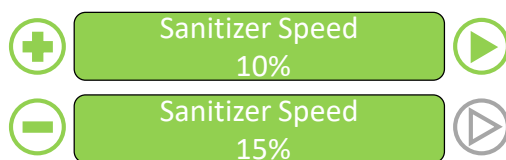
Sanitizer operations – Configurable sanitizer operations. Sanitizer to “copy rinse” will run all the time the rinse runs and you can adjust the speed to change amount, “Run on signal” allows the sanitizer pump to operate for the duration of a sanitizer signal on SANITIZER INPUT. “Run for set time” is a configurable run time Sanitizer will activate for when a signal is received on SANITIZER INPUT.

Step 11: Sanitize operation: to set the operation of the sanitizer pump, use the Plus + or Minus – buttons to select ‘sanitizer copy rinse’, select sanitizer run on signal’, select ‘sanitizer run for set time’. Confirm your selection by pressing the RIGHT > button



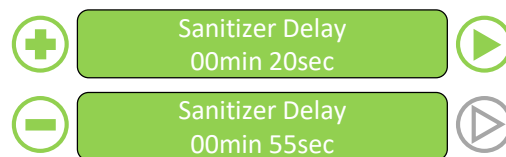
Sanitizer Speed – Adjustable Rinse pump speed option in increments of 5%.

Step 12: Sanitizer speed: to set the running speed of the pump, use the Plus + or Minus – buttons to select, this is shown as a percentage (%). Confirm your selection by pressing the RIGHT > button.



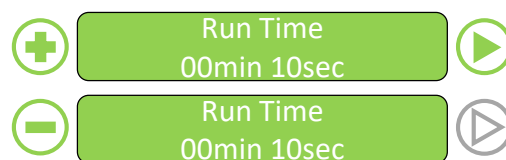
Sanitizer Delay Time – Configurable delay time for Sanitizer, when the Sanitizer signal is received the delay time will activate before allowing Sanitizer to operate. Note this option will only be displayed if Sanitizer run on signal or for set time is selected.

Step 13: Sanitizer delay time: to set the delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.



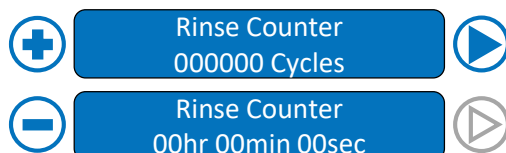
Sanitizer Run Time – Configurable run time for Sanitizer operation when a signal is received to Sanitizer INPUT. Note this option will only be displayed if Sanitizer run for set time is selected.

Step 14: Sanitizer run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button, repeat for changing the seconds



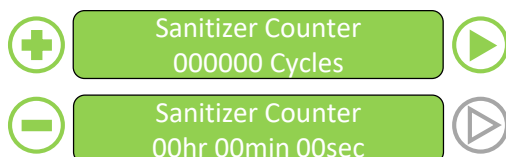
Step 15: Rinse Counter shows the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds.

Note: Holding either the Plus + or Minus – buttons will reset the counters.

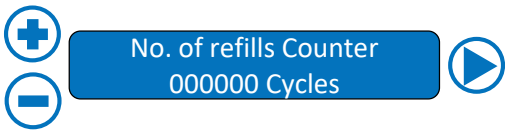
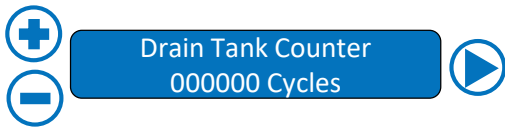
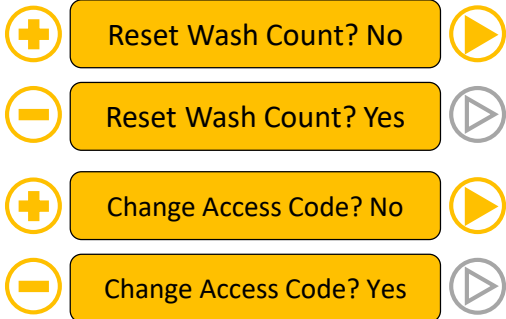


Step 16: Sanitizer Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds.

Note: Holding either the Plus + or Minus – buttons will reset the counters.

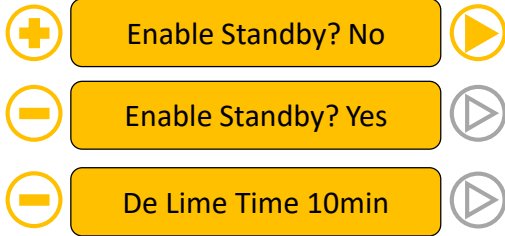


Number of refill counters and Drain tank counters see page 22, step 22 under Drain tank for more information on these counters.

<p>Step 17: Number of refill counters shows the total number of tank refills that have been completed after the Drain alarm sounded.</p> <p>Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p>Step 18: Drain tank counter shows the total number of times the drain alarm was activated.</p> <p>Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p>Step 19: Resetting the wash count: to reset the wash count, use the Plus + or Minus – buttons highlight YES. Confirm your selection by pressing the RIGHT > button. You will then be asked if you wish to change the access code to the unit before leaving this process (if you answer YES follow Steps 1-3 on page 16 on how to do this). If NO, skip to Step 20</p>	

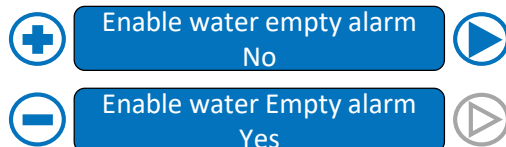
Standby mode can be toggled ON or OFF depending on preference. If NO is selected the standby function will not work.

De Lime Time is a safety feature for de-liming the machine. This allows the operator to put the unit into sleep mode for a configurable time. When the configurable Standby time has expired the unit will automatically restart, default time is set to 10 minutes.

<p>Step 20: Enable standby: this allows maintenance to be carried out. Select YES by pressing RIGHT > button. If you select NO, standby mode is disabled.</p> <p>Step: 20b : De Lime time can be adjusted by pressing the UP+ or DOWN- buttons. Confirm your selection by press the RIGHT > button.</p>	
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Water empty alarm: if using the auto operation for the probe, the water empty alarm can be used to ensure that the probe will only activate when water is in the tank and present on the probe.

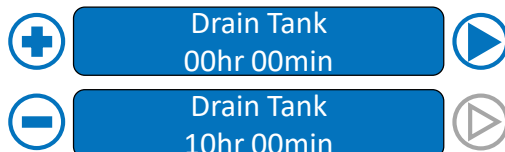
Step 21: Enable Water Empty Alarm, when No is selected then the probe will not sense if water is present. If YES is selected then when no water is present on the probe the detergent pump will not run, it will display 'NO WATER PRESENT' on the display every 5 seconds to warn you. Use the Plus + or Minus - buttons to select either YES or NO. Confirm your selection by pressing the RIGHT > button.



Drain Tank: The Dish machine should be drained every few hours and this feature allows you to set a time that an alarm will sound on the dispenser to warn the operator to drain the tank. Every drain tank alarm that sounds is countered in the drain tank counter in step 18. The system senses when it is drained and counts the number of refills and shows on the refill counter. If the operator has been draining the tank correctly then the Drain tank counter and number of refills counters should be the same.

Step 22: Drain Tank: Set the drain tank time for the internal alarm to sound when the tank should be drained. Use the Plus + or Minus – buttons to change the units. Confirm your selection by pressing the RIGHT > button.

Note: that the counter will only count in signalled mode when the signal is present and in the wash cycle.



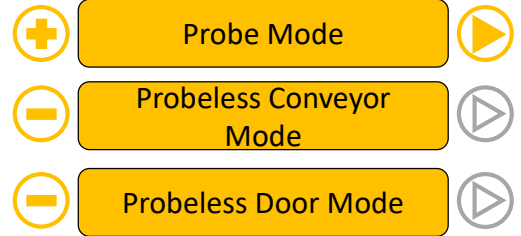
Step 23: Link rinse and detergent signals: When YES is selected the rinse signal alone will trigger both Recharge and Rinse. If NO is selected two separate feeds will be required for Recharge and Rinse. Use the Plus + or Minus - buttons to select either YES or NO. Confirm your selection by pressing the RIGHT > button.

Step: 23b :
Language can be changed by pressing the UP+ or DOWN- buttons. Confirm your selection by press the RIGHT > button.



Step 24: Selecting the operating mode, pressing the Plus + or Minus – buttons changes the screen to show Probe, Probeless Conveyor or Probeless Door . Once selection has been chosen press the >Right button to select that mode and you will return to the home page

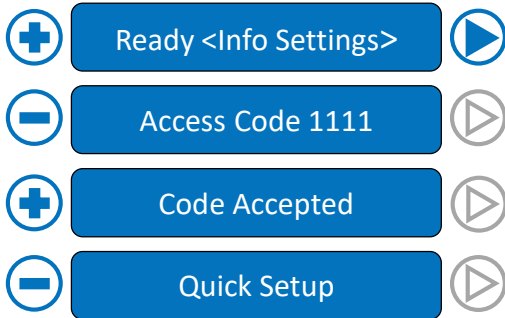
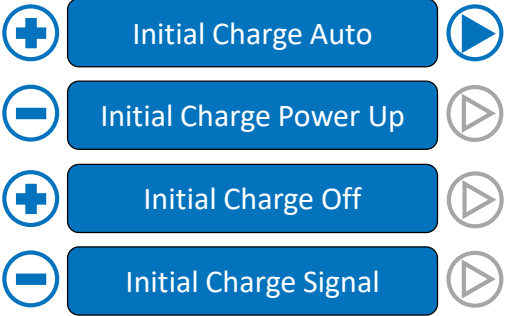
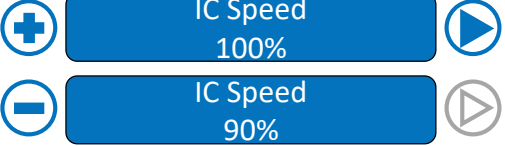
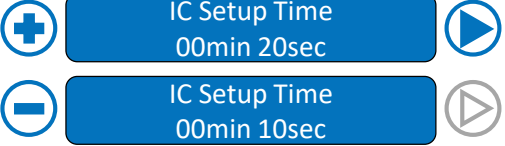
Warning if you do change modes it will reset all settings to the default settings.



This Concludes Probe Mode Programming.





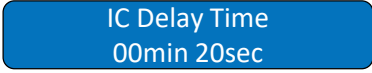

Quick Set-up Programming: Probeless Door Mode

Probeless Door Mode – timed Detergent operation, with optional rinse operations. Rinse Trigger signal with adjustable delay time or rinse run time.



<p>Step 1: Start by pressing the RIGHT > button (a). Enter your unique 'Access Code', now press the RIGHT > button to confirm (b). The screen will now state 'Code Accepted' (c). The 'Quick Set Up' screen will now appear, confirm selection by pressing the RIGHT > button (d).</p>	
<p>Step 2: Initial Charge: Using the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p> <p>*See note in step 4 if using 'Auto Initial Charge' functions.</p>	
<p>Step 3: IC Speed: to set the probe delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	
<p>Step 4: IC set up time: to set the time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	

IC Set Up Time – Auto Initial Charge ONLY. Configurable time in which the pump will monitor the incoming rinse signal to determine if initial charge is required or Rinse only. A signal present longer or equal to the SET UP TIME will start initial charge. Signal present less than SET UP TIME will start Rinse operation ONLY.







IC Delay Time – Configurable delay time (Power up and Signalled only) to allow for tank fill before detergent is dosed.

<p>Step 5: IC delay time: to set the delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	  
	  


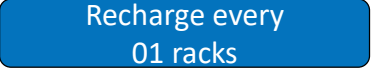


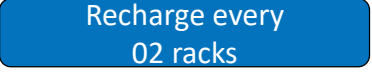

IC Run Time – A configurable run time for initial charge dose.

<p>Step 6: IC run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	  
	  


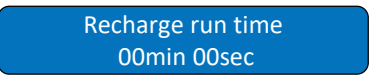


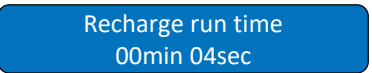

Recharge Speed – Adjustable detergent Recharge pump speed option in increments of 5%

<p>Step 7: Recharge speed: to set the Recharge speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	  
	  


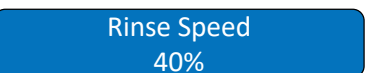


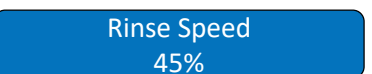

Recharge Every – Choose after how many racks the Recharge should activate. For example: By selecting 2 the pump will dose once every 2 racks.

<p>Step 8: Recharge every 01 racks: to set the Recharge speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	  
	  

Recharge Run Time – Configurable run time Recharge will operate when a Recharge signal is received

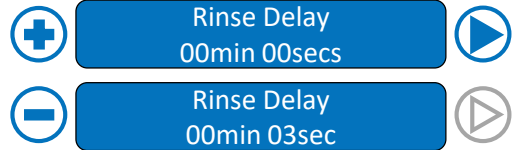
<p>Step 9: Recharge run time: to set run time of Recharge, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	  
	  

Rinse Speed – Adjustable rinse pump speed option in increments of 5%.

<p>Step 10: Rinse speed: to set the Recharge speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	  
	  

Rinse Delay Time – A configurable delay time for rinse. When the rinse signal is received the delay time will activate before allowing the rinse pump to operate.

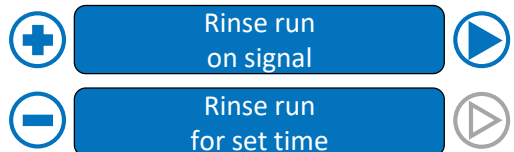
Step 11: Rinse delay: to set the delay time of Rinse, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.



Rinse Operation Run when the signal is present or for set time.

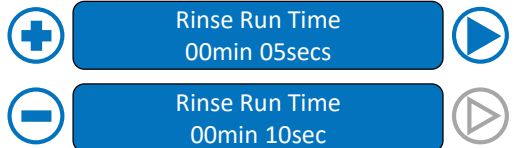
Defaults to run on signal and is used always in the US, rinse run for set time is a European option.

Step 12: Rinse operation: to set the rinse operation, use the Plus + or Minus – buttons to select either for a 'Run for Set Time' or 'Run on signal'. Confirm your selection by pressing the RIGHT > button.



Rinse Run Time (Rinse Run for Set Time Only) – Configurable run time for rinse operation when a signal is received to Rinse INPUT. Using the UP and DOWN arrow it is possible to select rinse to operate whilst for the duration of the signal Rinse on Signal.

Step 13: Rinse run time: to set the run time of Rinse, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.



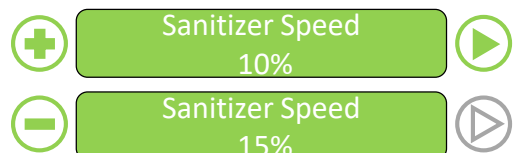
Sanitizer operations – Configurable sanitizer operations. Sanitizer to “copy rinse” will run all the time the rinse runs and you can adjust the speed to change amount, “Run on signal” allows the sanitizer pump to operate for the duration of a sanitizer signal on SANITIZER INPUT. “Run for set time” is a configurable run time Sanitizer will activate for when a signal is received on SANITIZER INPUT.

Step 14: Sanitize operation: to set the operation of the sanitizer pump, use the Plus + or Minus – buttons to select ‘sanitizer copy rinse’, select sanitizer run on signal’, select ‘sanitizer run for set time’. Confirm your selection by pressing the RIGHT > button

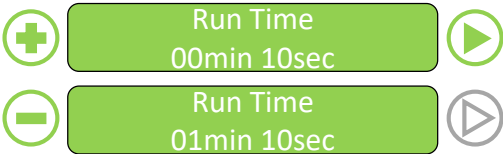
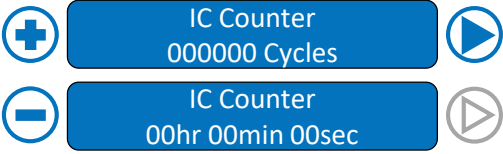
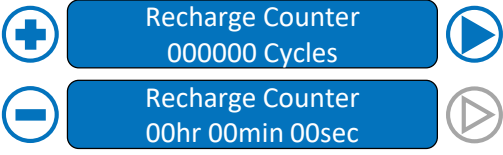
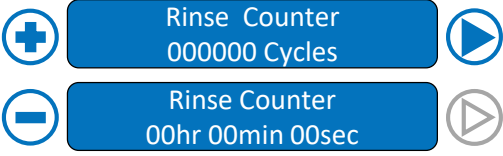
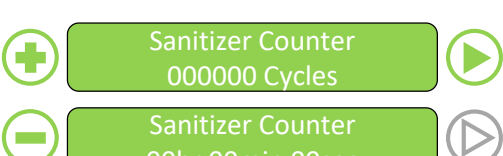
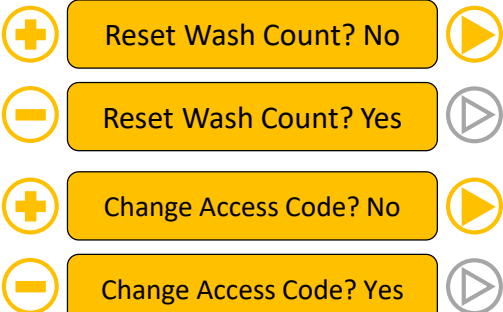


Sanitizer Speed – Adjustable Sanitizer pump speed option in increments of 5%.

Step 15: Sanitizer speed: to set the running speed of the pump, use the Plus + or Minus – buttons to select, this is shown as a percentage (%). Confirm your selection by pressing the RIGHT > button.

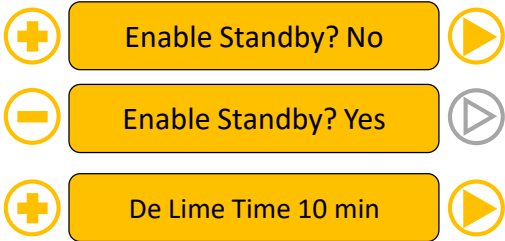
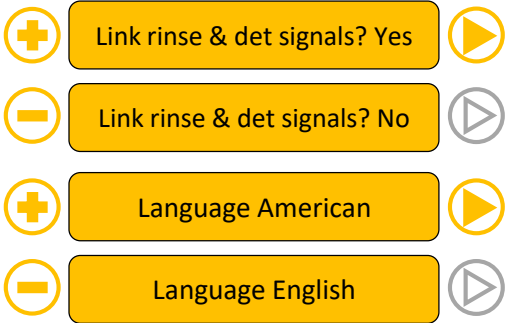
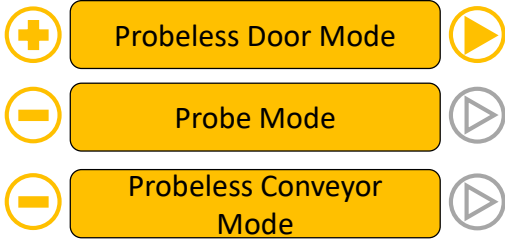


Sanitizer Run Time – Configurable run time for Sanitizer operation when a signal is received to Sanitizer INPUT. Note this option will only be displayed if Sanitizer run for set time is selected.

<p>Step 16: Sanitizer run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button, repeat for changing the seconds.</p>	
<p>Step 17: Initial charge counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p>Step 18: Recharge counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p>Step 19: Rinse Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p>Step 20: Sanitizer Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p>Step 21: Resetting the wash count: to reset the wash count, use the UP + or DOWN - buttons highlight YES. Confirm your selection by pressing the RIGHT > button. Step 21b: You will then be asked if you wish to change the access code to the unit before leaving this process (if you answer YES follow Steps 1-4 on page 16 on how to do this). If NO, skip to Step 22</p>	

Standby mode can be toggled ON or OFF depending on preference. If NO is selected the standby function will not work.

De Lime Time is a safety feature for de-liming the machine. This allows the operator to put the unit into sleep mode for a configurable time. When the configurable Standby time has expired the unit will automatically restart

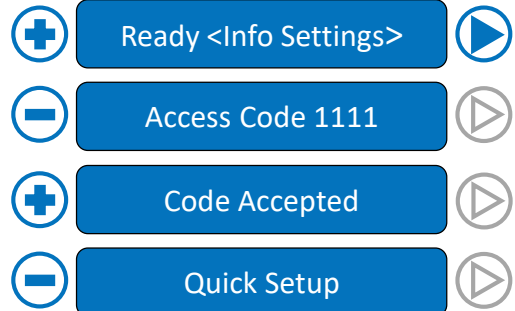
<p>Step 22: Enable standby: this allows maintenance to be carried out. Select YES by pressing RIGHT > button. If you select NO, standby mode is disabled.</p> <p>Step 22b: DeLime time can be adjusted by pressing the UP+ or DOWN- buttons. Confirm your selection by press the RIGHT > button.</p>	 <p>Enable Standby? No</p> <p>Enable Standby? Yes</p> <p>De Lime Time 10 min</p>
<p>Step 23: Link rinse and detergent signals: When YES is selected the rinse signal alone will trigger both Recharge and Rinse. If NO is selected two separate feeds will be required for Recharge and Rinse. Use the Plus + or Minus - buttons to select either YES or NO. Confirm your selection by pressing the RIGHT > button.</p> <p>Step: 23b : Language can be changed by pressing the UP+ or DOWN- buttons. Confirm your selection by press the RIGHT > button.</p>	 <p>Link rinse & det signals? Yes</p> <p>Link rinse & det signals? No</p> <p>Language American</p> <p>Language English</p>
<p>Step 24: Selecting the operating mode, pressing the Plus + or Minus – buttons changes the screen to show Probe, Probeless Conveyor or Probeless Door . Once selection has been chosen press the >Right button to select that mode and you will return to the home page</p> <p>Warning if you do change modes it will reset all settings to the default settings.</p>	 <p>Probeless Door Mode</p> <p>Probe Mode</p> <p>Probeless Conveyor Mode</p>

This Concludes Probeless Door Programming.

Quick Set Up Programming: Probeless Conveyor Mode

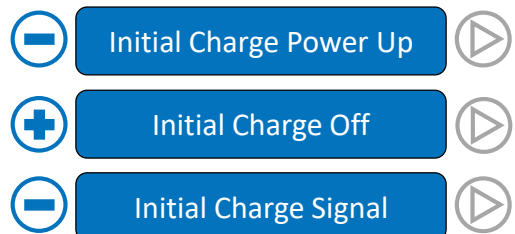
Probeless Conveyor Mode - Timed detergent operation, with optional rinse operations. Rinse on signal with adjustable delay time or rinse run time.

Step 1: Start by pressing the RIGHT > button (a). Enter your unique 'Access Code', now press the RIGHT > button to confirm (b). The screen will now state 'Code Accepted'(c). The 'Quick Set Up' screen will now appear, confirm selection by pressing the RIGHT > button (d)



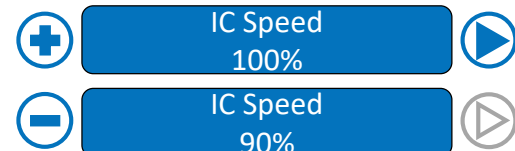
Initial charge – Referred to as IC it is the initial dose of product when a tank fill operation occurs in the washer.

Step 2: Initial Charge: Using the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.



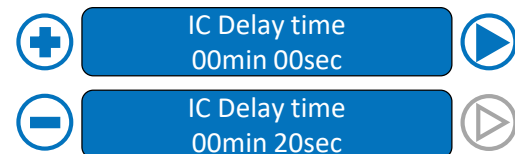
IC Speed – Adjustable Initial charge pump speed option in increments of 5%.

Step 3: IC Speed: to set the probe delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button



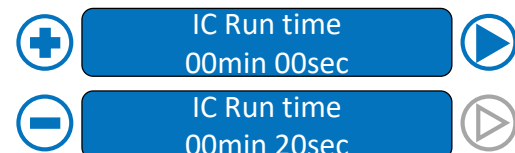
IC Delay Time – Configurable delay time to allow for tank fill before detergent is dosed.

Step 4: IC delay time: to set the delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button

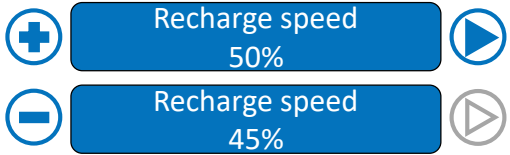


IC Run Time – A configurable run time for initial charge dose.

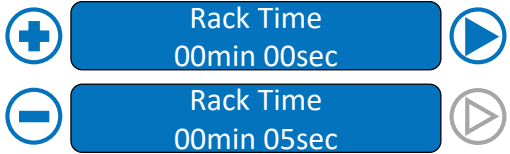
Step 5: IC run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.



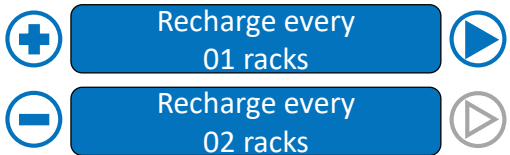
Recharge Speed – Adjustable detergent Recharge pump speed option in increments of 5%.

<p>Step 6: Recharge speed: to set the Recharge speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	 <p>Recharge speed 50%</p> <p>Recharge speed 45%</p>
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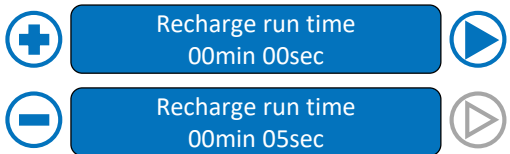
Rack Time – Configurable time used to programme the duration of 1 rack from start of wash to end of wash.

<p>Step 7: Rack time: to set the time of the rack, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	 <p>Rack Time 00min 00sec</p> <p>Rack Time 00min 05sec</p>
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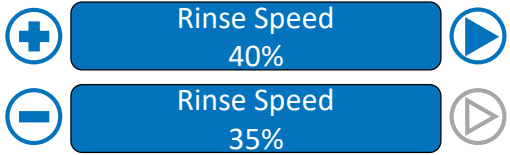
Recharge Every – Choose after how many racks the Recharge should activate. For example: By selecting 2 the pump will dose once every 2 racks.

<p>Step 8: Recharge every 01 racks: to set the Recharge speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	 <p>Recharge every 01 racks</p> <p>Recharge every 02 racks</p>
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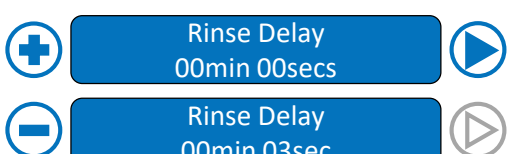
Recharge Run time – Configurable run time Recharge will operate when a Recharge signal is received.

<p>Step 9: Recharge run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button</p>	 <p>Recharge run time 00min 00sec</p> <p>Recharge run time 00min 05sec</p>
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Rinse Speed – configurable speed to adjust rinse amount, as rinse will run all the time the signal is present.

<p>Step 10: Rinse speed: to set the speed of the pump, use the Plus + or Minus – buttons to select the percentage. Confirm your selection by pressing the RIGHT > button</p>	 <p>Rinse Speed 40%</p> <p>Rinse Speed 35%</p>
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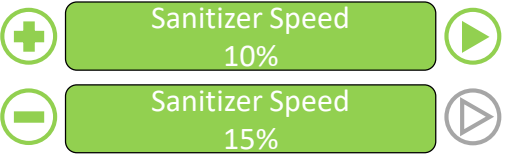
Rinse Delay Time – A configurable delay time for rinse. When the rinse signal is received the delay time will activate before allowing the rinse pump to operate.

<p>Step 11: Rinse delay: to set the delay time of Rinse, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.</p>	 <p>Rinse Delay 00min 00sec</p> <p>Rinse Delay 00min 03sec</p>
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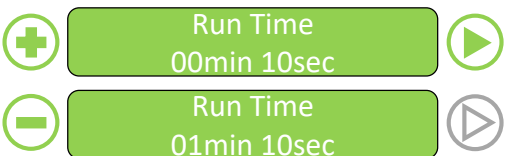
Sanitizer operations – Configurable sanitizer operations. Sanitizer to “copy rinse” will run all the time the rinse runs and you can adjust the speed to change amount, “Run on signal” allows the sanitizer pump to operate for the duration of a sanitizer signal on SANITIZER INPUT. “Run for set time” is a configurable run time Sanitizer will activate for when a signal is received on SANITIZER INPUT.

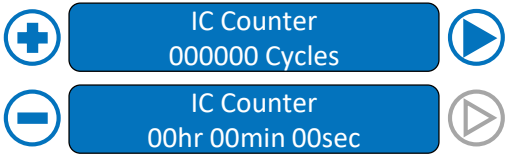
<p>Step 11: Sanitize operation: to set the operation of the sanitizer pump, use the Plus + or Minus – buttons to select ‘sanitizer copy rinse’, select sanitizer run on signal’, select ‘sanitizer run for set time’. Confirm your selection by pressing the RIGHT > button</p>	 <p>The screenshot shows three green buttons with play icons on the right. The top button is selected and shows a plus sign icon on the left, with the text 'Sani Run Copy Rinse'. The middle button shows a minus sign icon and the text 'Sani Run On signal'. The bottom button shows a minus sign icon and the text 'Sani Run For set time'.</p>
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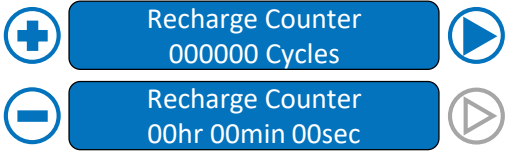
Sanitizer Speed – Adjustable Rinse pump speed option in increments of 5%.

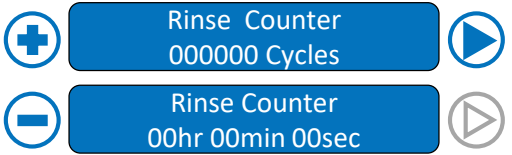
<p>Step 13: Sanitizer speed: to set the running speed of the pump, use the Plus + or Minus – buttons to select, this is shown as a percentage (%). Confirm your selection by pressing the RIGHT > button</p>	 <p>The screenshot shows two green buttons with play icons on the right. The top button is selected and shows a plus sign icon on the left, with the text 'Sanitizer Speed 10%'. The bottom button shows a minus sign icon and the text 'Sanitizer Speed 15%'.</p>
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Sanitizer Run Time – Configurable run time Sanitizer will operate when signal is received. Note this option will only be displayed if Sanitizer to copy Rinse NO option is selected

<p>Step 14: Sanitizer run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button, repeat for changing the seconds.</p>	 <p>The screenshot shows two green buttons with play icons on the right. The top button is selected and shows a plus sign icon on the left, with the text 'Run Time 00min 10sec'. The bottom button shows a minus sign icon and the text 'Run Time 01min 10sec'.</p>
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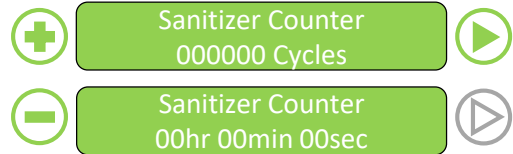
<p>Step 15: Initial charge counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	 <p>The screenshot shows two blue buttons with play icons on the right. The top button is selected and shows a plus sign icon on the left, with the text 'IC Counter 000000 Cycles'. The bottom button shows a minus sign icon and the text 'IC Counter 00hr 00min 00sec'.</p>
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<p>Step 16: Recharge counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	 <p>The screenshot shows two blue buttons with play icons on the right. The top button is selected and shows a plus sign icon on the left, with the text 'Recharge Counter 000000 Cycles'. The bottom button shows a minus sign icon and the text 'Recharge Counter 00hr 00min 00sec'.</p>
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<p>Step 17: Rinse Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Note: Holding either the Plus + or Minus – buttons will reset the counters.</p>	 <p>The screenshot shows two blue buttons with play icons on the right. The top button is selected and shows a plus sign icon on the left, with the text 'Rinse Counter 000000 Cycles'. The bottom button shows a minus sign icon and the text 'Rinse Counter 00hr 00min 00sec'.</p>
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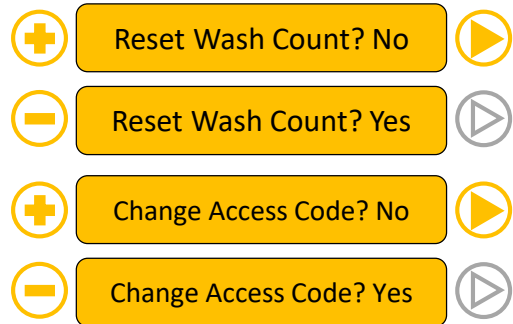
Step 18: Sanitizer Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds.

Note: Holding either the Plus + or Minus – buttons will reset the counters.



Step 19: Resetting the wash count: to reset the wash count, use the Plus + or Minus – buttons highlight YES. Confirm your selection by pressing the RIGHT > button.

Step 19b: You will then be asked if you wish to change the access code to the unit before leaving this process (if you answer YES follow Steps 1-4 on how to do this on page 16.).

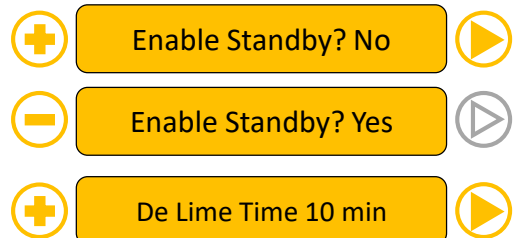


Standby mode can be toggled ON or OFF depending on preference. If NO is selected the standby function will not work.

De Lime Time is a safety feature for de-liming the machine. This allows the operator to put the unit into sleep mode for a configurable time. When the configurable Standby time has expired the unit will automatically restart

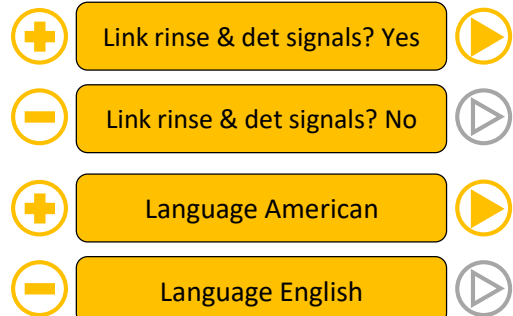
Step 20: Enable standby: this allows maintenance to be carried out. Select YES by pressing RIGHT > button. If you select NO, standby mode is disabled.

Step 20b: De Lime time can be adjusted by pressing the Plus + or Minus – buttons. Confirm your selection by press the RIGHT > button.



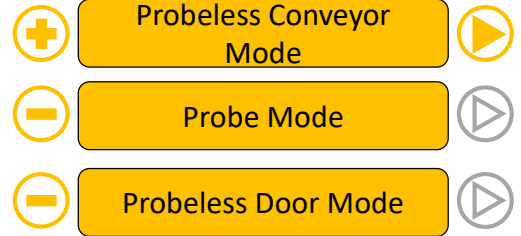
Step 21: Link rinse and detergent signals: When YES is selected the rinse signal alone will trigger both Recharge and Rinse. If NO is selected two separate feeds will be required for Recharge and Rinse. Use the Plus + or Minus – buttons to select either YES or NO. Confirm your selection by pressing the RIGHT > button.

Step: 21b : Language can be changed by pressing the UP+ or DOWN- buttons. Confirm your selection by press the RIGHT > button.



Step 22: Selecting the operating mode, pressing the Plus + or Minus – buttons changes the screen to show Probe, Probeless Conveyor or Probeless Door . Once selection has been chosen press the >Right button to select that mode and you will return to the home page

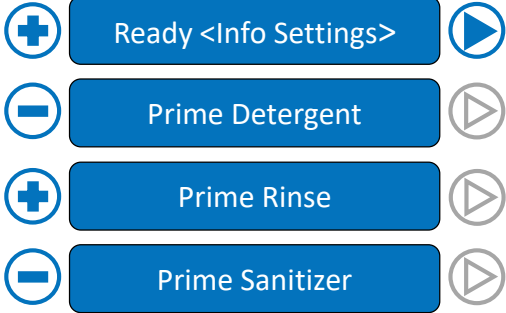
Warning if you do change modes it will reset all settings to the default settings.



This Concludes Probeless Conveyor programming.

Priming the Pumps

Priming the Pumps – this operation draws chemical up from source to the machine, ready to dose chemical prior to the commencement of one of the preprogrammed cycles.

<p>(a) Start by pressing the RIGHT > button.</p> <p>(b) Choose the pump you wish to prime, by using the Plus + or Minus – buttons.</p> <p>(c) Press and hold the prime button until enough chemical is drawn up to the desired level</p>	
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Maintenance

Important: Before servicing or replacing parts the appliance must be disconnected from the mains supply and trigger signals and left to discharge for 10 seconds.

Service Intervals

1. Pump Tube Servicing: It is recommended the pump tubes are inspected for performance once every 3 months and lubricated with silicone grease to pro long tube life.
2. Pump Calibration: As a guide once every 3 months it is recommended the flow produced is checked to ensure consistent flow over the life of the tube. To do this run the pump for minute and capture the flow produced. Compare this figure with the run time of the pump to ensure the correct dosage is produced.
3. Pump tube replacement. As a guide it is recommended the tube is replaced for a new piece once every 6 months, or as needed.

Cleaning the Device

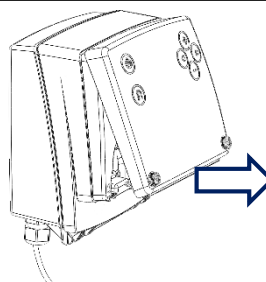
Wipe the unit with a soft damp cloth; avoid using harmful chemicals as this could potentially damage the housing or safety labels.

Replacing Peristaltic Tubing

Your Quantura unit will require periodic maintenance by your chemical supplier technician. Do NOT attempt to service or fix this unit yourself as this may invalidate any agreement you have with your supplier and will void any warranty and responsibility with the manufacturer. Contact your service provider for any technical issues.

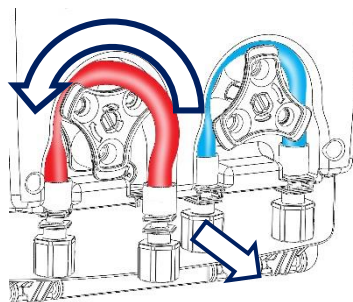
IMPORTANT: Before removing the tubes make sure you are wearing the appropriate eye protection and gloves in case any chemical suddenly escapes from the tube during this procedure.

Step 1: Power down the unit and remove the outer lid by removing the two screws and pulling the cover towards you.

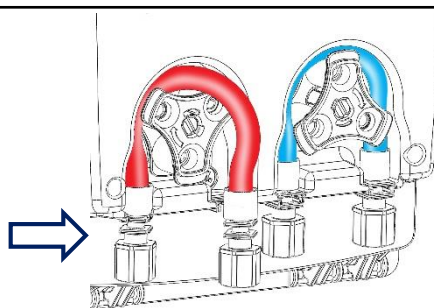


Step 2: Carefully disconnect the corresponding container inlet/discharge tubing while avoiding any spillage of chemical.

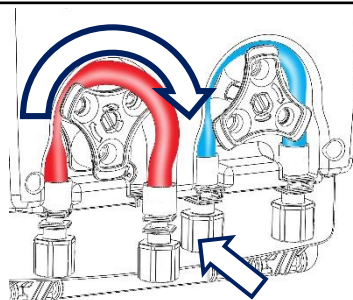
Now remove the old peristaltic tubes as shown by carefully working them around the pump head until free in an anti-clockwise direction.



Step 3: Insert the new tube at one end of housing, ensuring that it is slotted into the body of the housing as shown.



Step 4: Now feed the tube around the pump head until the other end is slotted into housing as shown. (Repeat steps 1-3 for the other pump head). Replace the outer lid in the reverse order as shown in step 1 and reconnect your container tubing.



Trouble Shooting

J

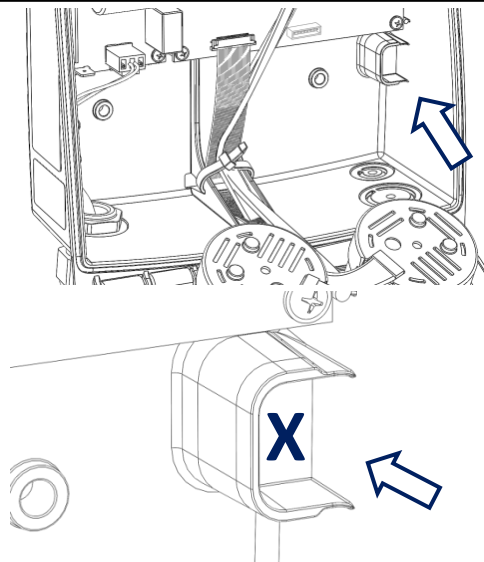
Will not turn on	<p>Check main power supply with a volt meter</p> <p>Check Inline fuse if used</p> <p>Change out Mains Power board or Interface PCB</p>
Display will not illuminate	<p>Check power supply with a volt meter</p> <p>Check Standby status by pressing standby button</p> <p>Change out interface board</p>
Pin code not accepted	<p>Ensure you have the correct code and re-try</p> <p>Contact Brightwell Customer service with your serial number for back up code</p>
Will not pump/dispense chemical	<p>Check power supply</p> <p>Check display for probe alarm if using a probe</p> <p>Check chemical level</p> <p>Check Pump tube condition, replace if necessary</p> <p>Check all tube connections are tight and secure</p> <p>Check inlet/outlet tubes are correct way round</p>
Pumps not initiating	<p>Check the pumps prime to check functionality</p> <p>Check the correct trigger voltage is present 24 – 240V AC/DC</p> <p>Check the display for pump errors</p>
Screen frozen-will not change	<p>Turn the unit off, wait 1 minute for temporary memory to clear and turn back on again</p> <p>Check through installation again</p> <p>Contact service technician</p>
Alarms & Indicators	<p>Probe alarm – Check detergent supply</p> <p>Probe alarm - check Recharge tube</p> <p>Check machine water level</p> <p>Pump Error – Turn the unit OFF and On again</p> <p>Pump Error – Replace Motor</p> <p>No Water Alarm – water tank needs to be replenished.</p>
Accessories not recognised	<p>3rd Pump – Ensure pump is connected correctly</p> <p>3rd pump remove power for 10 seconds and re apply</p> <p>Probe – Ensure pump is connected correctly</p> <p>Probe remove power for 10 seconds and re apply</p>

FOR ALL OTHER FAULT ISSUES CONTACT YOUR SERVICE TECHNICIAN

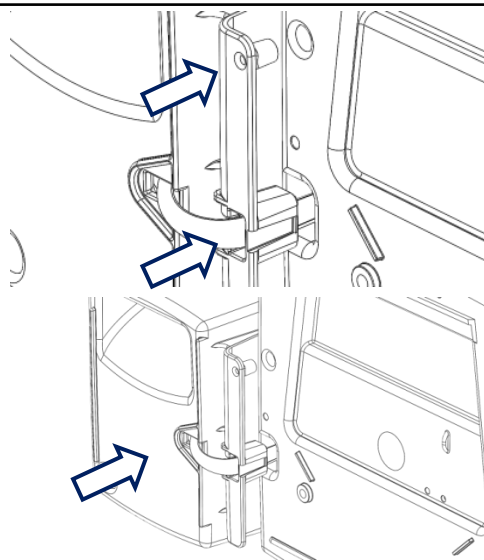
How to connect a Third Pump: (Q100)

Step 1: Having opened the main enclosure, use a flat headed screw driver to knock out the location and entry point for the third pump (shown right, marked with the X).

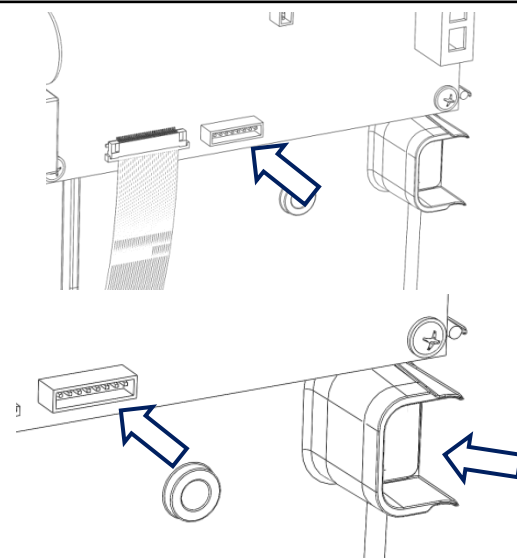
Important Note: In order to maintain the IP rating only the area shown should be knocked through.



Step 2: Feed the connecting cable from the third pump through the knock out hole (a) and into the main unit. Then push together the two units making sure the locating pin at the top lines up with the receiving hole (b), push until they click together.

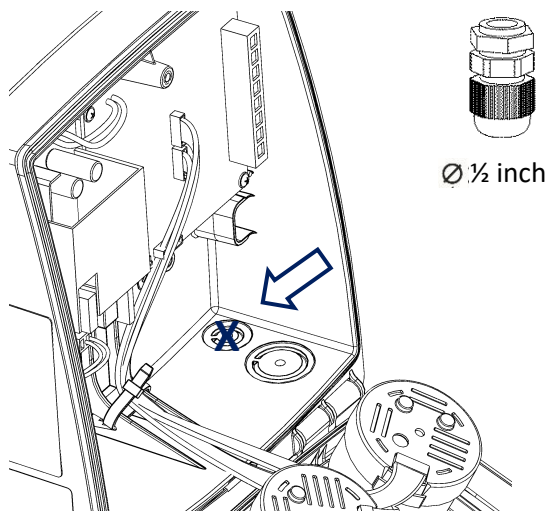


Step 3: Now connect this cable to the PCB board (shown right).

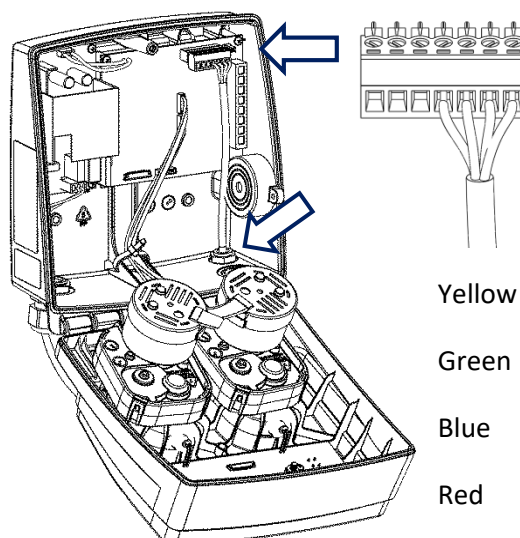


How to connect a probe

Step 1: Remove the ½" knock out on the underside of the unit and fit the probe gland which is included in the probe kit.

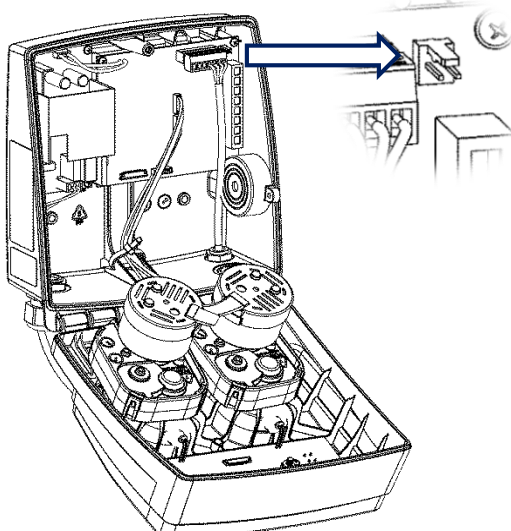


Step 2: Feed the probe cable through the ½" gland and connect the 4 wires from the probe to the 7 way green connector provided with the probe kit as shown.

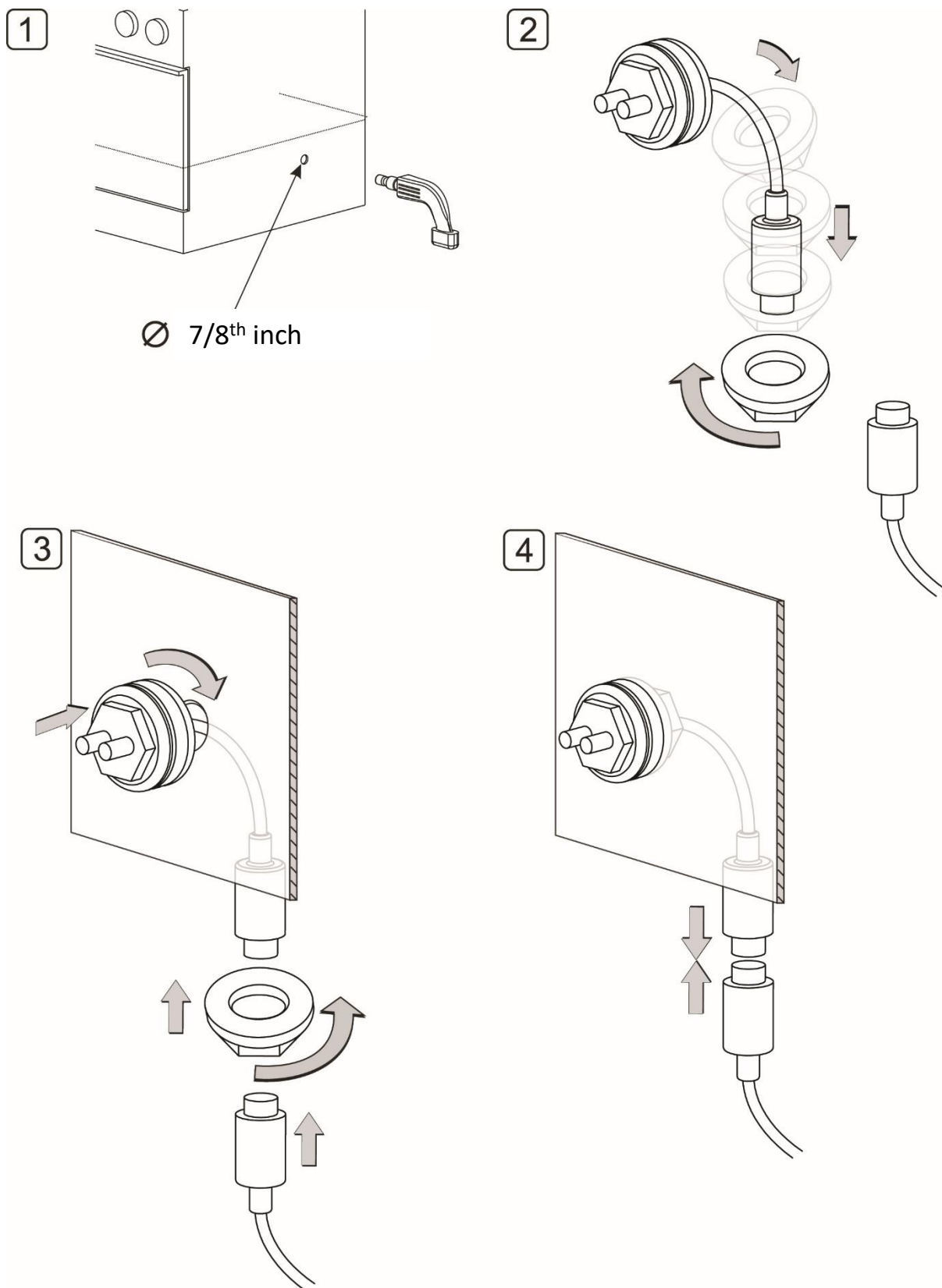


Step 3: Connect the buzzer provided in the kit to the Probe buzzer connector.

Using the Velcro pad provided with the buzzer attach the buzzer above the probe cable entry gland as shown.



Connecting the Probe to the Machine

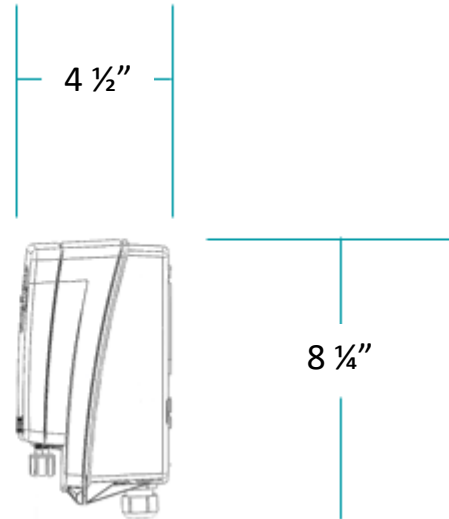
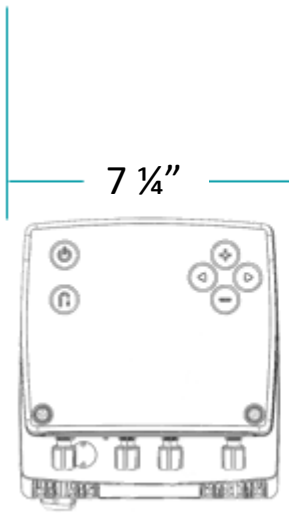


Technical Specifications

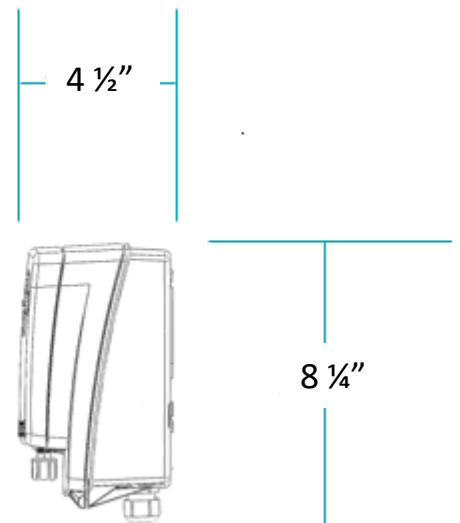
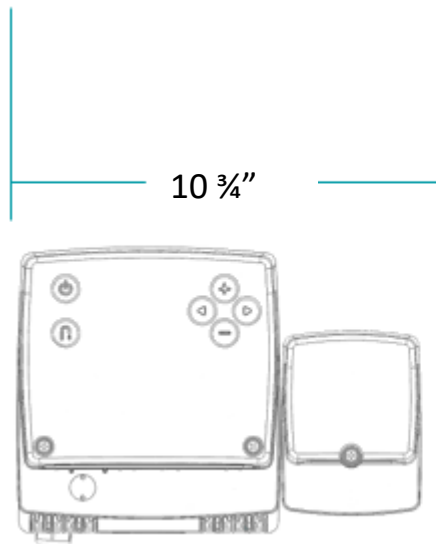
Power Supply	Voltage		110-240V AC
	Frequency		50/60Hz
	Current	Q200	0.44A @120V
		Q200S	0.3A @120V
		Q300	0.66A @120V
Q300S		0.5A @120V	
Power	Q200	28W	
	Q200S	17W	
	Q300	42W	
	Q300S	32W	
Motor	24V DC		
Pump	Detergent: 1 – 8.5 fl.oz (BrightChem tube) Rinse: 0.1 – 1 fl.oz (BrightChem tube) Sanitizer 0.2 – 2.7 fl.oz (BrightChem tube)		
Enclosure	LG Lupol GP 3156F. White RAL9003 IP55 Rated.		
Weight	Q200 4.5 lb Q200S 4.5 lb Q300 6.6 lb Q300S 6.6 lb		

Dimensions: Foot Print

Q200 & Q200S



Q300 & Q300S



EU Declaration of Conformity

The EU Directives covered by this Declaration

- Low Voltage Directive (LVD 2014/35/EU)
- Electromagnetic Compatibility Directive (EMC 2014/30/EU)

The Products Covered by this Declaration

- Quantura Q200
- Quantura Q300
- Quantura Q200S
- Quantura Q300S

Basis on which Conformity is being Declared

The products identified complies with the requirement of the above EU Directives by meeting the following standards:

EN 61000-6-1: 2007	Electromagnetic Compatibility (EMC)
EN 61000-6-3: 2007, A1: 2001	Electromagnetic Compatibility (EMC)
EN 60335-1	Electrical Safety
EN 60335-2-41	Electrical Safety
EN 61000-6-2: 2005	Electromagnetic Compatibility (EMC)
EN 60526: 1992, A2: 2003	IP Testing
BS EN 62311: 2008	EMF Testing
BS EN 62233: 2008	EMF Testing

CSA Group Certificate of Compliance – Certificate Number 70123126

The Products Covered by this Certificate



Quantura Q100
 Quantura Q200
 Quantura Q300
 Quantura Q200S
 Quantura Q300S



<p>GB IRL</p>	<ul style="list-style-type: none"> • Environment protection first ! • Your appliance contains valuable materials which can be recovered or recycled. • Leave it at a local civic waste collection point.
<p>F</p>	<p>Participons à la protection de L'environnement Votre appareil contient de nombreux matériaux valorisables ou recyclables.</p> <p>Confiez celui-ci dans un point de collecte ou à défaut dans un centre service agréé pour que son traitement soit effectué.</p>
<p>D A</p>	<p>Schützen Sie die Umwelt ! Ihr Gerät enthält mehrere unterschiedliche, wiederverwertbare Wertstoffe.</p> <p>Bitte geben Sie Ihr Gerät zum Entsorgen nicht in den Hausmüll, sondern bringen Sie es zu einer speziellen Entsorgungsstelle für Elektrokleingeräte (Wertstoffhof).</p>
<p>E</p>	<p>ii Participe en la conservación del medio ambiente !! Su electrodoméstico contiene materiales recuperables y/o reciclables.</p> <p>Entréguelo al final de su vida útil, en un Centro de Recogida Específico o en uno de nuestros Servicios Oficiales Post Venta donde será tratado de forma adecuada.</p>
<p>I</p>	<p>Partecipiamo alla protezione dell'ambiente Il vostro apparecchio è composto da diversi materiali che possono essere riciclati.</p> <p>Lasciatelo in un punto di raccolta o presso un Centro Assistenza Autorizzato.</p>
<p>NL</p>	<p>Wees vriendelijk voor het milieu ! i Uw apparaat bevat materialen die geschikt zijn voor hergebruik.</p> <p>Lever het in bij het milieustation in uw gemeente of bij onze technische dienst.</p>
<p>PL</p>	<p>Bierzmy czynny udział w ochronie środowiska ! Twoje urządzenie jest zbudowane z materiałów, które mogą być poddane ponownemu przetwarzaniu lub recyklingowi.</p> <p>W tym celu należy je dostarczyć do wyznaczonego punktu zbiórki.</p>
<p>CZ</p>	<p>Podílejme se na ochranu životního prostředí ! Váš přístroj obsahuje čtené hodnotitelné nebo recyklovatelné materiály.</p> <p>Sveřte jej sbernému místu nebo, neexistuje-li, smluvnímu servisnímu středisku, kde a ním bude naloženo odpovídajícím způsobem.</p>

Brightwell Dispensers Inc.

9567 Alden Street, Lenexa, Kansas, 66215, USA

T (+1) 913-956-4909 F (+1) 913-948-9470 E sales@Brightwell-inc.com W Brightwell-inc.com

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