

# BRIGHTWELL



# Quantura

*Dishwash Dosing System*

## Instruction Manual

Quantura 200 & Quantura 200S

Quantura 300 & Quantura 300S

EN

[www.brightwell.co.uk](http://www.brightwell.co.uk)

k

M0001 EN – Revision  
2.0

## Contents

A	Important Safety Notes	3	Safety Notes
	Warranty	4	Safety Precautions Warranty Details
B	Unit Variations	5	Unit Variations
	Before Installation	6	Component List Installation Location
C	Installation	7	Mounting the Unit
	Electrical Connections	8	First Installation of Peristaltic Tube
		9	Wiring Configurations
			Trigger Signal Wiring Configurations
			Operating Trigger Signals
		10	Sanitiser Trigger Signal (Third Pump)
		11	Introduction to Modes
	12	Probe Mode	
D	Operation	13	Probeless Door Mode
		14	Probeless Conveyor Mode
		15-16	Connecting Chemical Supplies
			Initial Set up & operation
E	Probe Mode	17-22	Powering up
			Quick Set-Up Programming Probe Mode
F	Probeless Door Mode	23-27	Setting the Language
			Quick Set-Up Programming Probeless Door Mode
G	Probeless Conveyor Mode	28-32	Setting access codes
			Quick Set-Up Programming Probeless Conveyor Mode
H	Priming Pumps	33	Choosing programs
			How To Prime Pumps
I	Cleaning the Device	34	Operation
			Replacing Peristaltic Tubing
J	Troubleshooting	35	Troubleshooting
		36	How to connect a third pump
		37-38	How to connect a probe
K	Technical Specification	39	Technical Specifications
		40	Dimensions
L	Approvals	41	Compliance with EU Regulations
		42	Worldwide Regulatory & Certificates

## 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 aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction 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.co.uk](http://www.brightwell.co.uk)








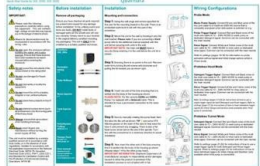
## Unit Variations

The Quantura range of dosing systems are designed to safely and accurately deliver Solid and Liquid Detergents, Rinse aids and Sanitisers to commercial dishwashers. The system has been developed to work with Single tank/Door/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.

Q200	2 Product peristaltic pump dosing system for the delivery of <b>Rinse aid</b> and <b>Detergent</b> chemicals to commercial Dishwashing machines	 A black rectangular dosing unit with a digital display showing 'Rinse Aid' and 'Detergent' and two peristaltic pumps below it.
Q300	3 Product peristaltic dosing pump system for the delivery of <b>Rinse aid</b> , <b>Sanitiser</b> and <b>Detergent</b> chemicals to commercial Dishwashing machines.	 A black rectangular dosing unit with a digital display showing 'Rinse Aid', 'Sanitiser', and 'Detergent' and three peristaltic pumps below it.
Q200S	2 Product Solenoid and peristaltic dosing pump system for the delivery of <b>Rinse aid</b> and <b>Solid Powder Detergent</b> chemicals to commercial Dishwashing machines.	 A black rectangular dosing unit with a digital display showing 'Rinse Aid' and 'Solid Powder Detergent' and two pumps (one solenoid, one peristaltic) below it.
Q300S	3 Product Solenoid and peristaltic dosing pump system for the delivery of <b>Rinse aid</b> , <b>Sanitiser</b> and <b>Solid Powder Detergent</b> chemicals to commercial Dishwashing machines.	 A black rectangular dosing unit with a digital display showing 'Rinse Aid', 'Sanitiser', and 'Solid Powder Detergent' and three pumps (one solenoid, two peristaltic) below it.
Q100	1 Product add on peristaltic dosing pump for the delivery of <b>Sanitiser</b> chemical to commercial Dishwashing machines. Only to be used in conjunction with Q200 or Q200S.	 A small black rectangular add-on peristaltic dosing pump with two blue tubes at the bottom.

## 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.

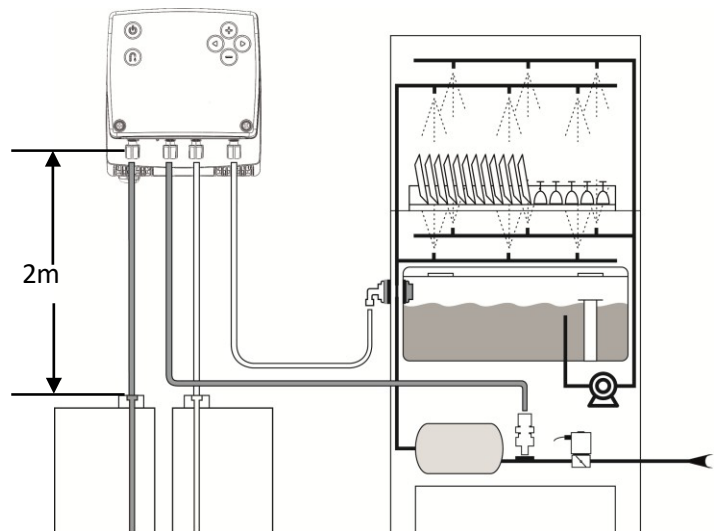
Quantura 200 or 200s		Tank Injector x 1 (Liquid System Only)	
Peristaltic Tube Pack		Polyethylene Tubing 3000mm x 2	
Tube Stiffener x 2		Fixing Pack: Screws x 4 & Wall Plugs x 4	
Rinse Injector x 1		Quick Start Guide	

## Installation Location

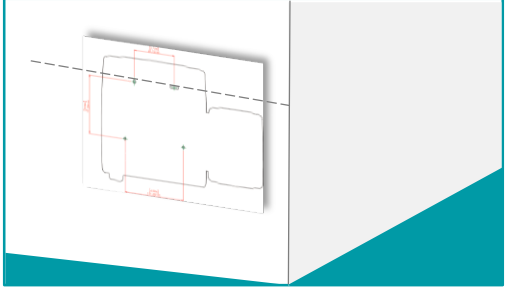
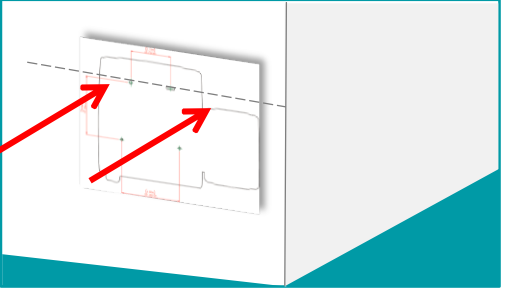
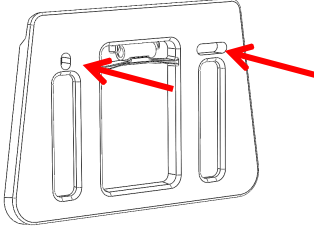
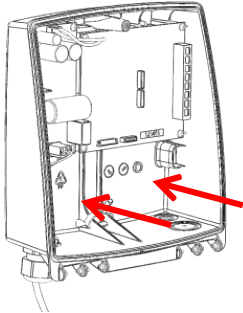
When mounting the unit to ensure best performance practise, ensure that it is positioned no further than 2 meters from its chemical supply.

### 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.



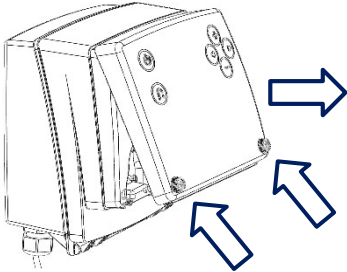
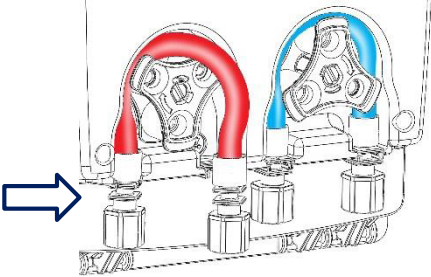

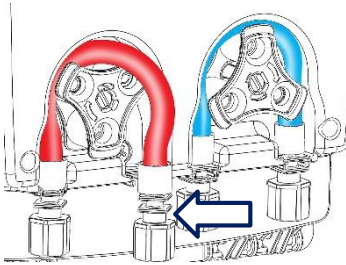
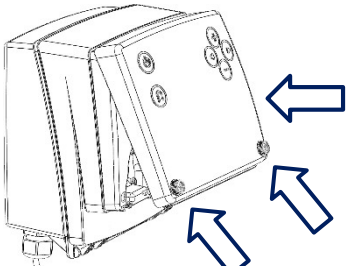
## Mounting the Unit

<p><b>Step 1</b></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><b>Step 2</b></p> <p>Using a 5.5mm drill bit, drill pilot holes for the supplied wall plugs and wall bracket.</p> <p><b>IMPORTANT NOTE:</b> 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><b>Step 3</b></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><b>Step 4</b></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><b>IMPORTANT NOTE:</b> The main unit <b>MUST</b> 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.

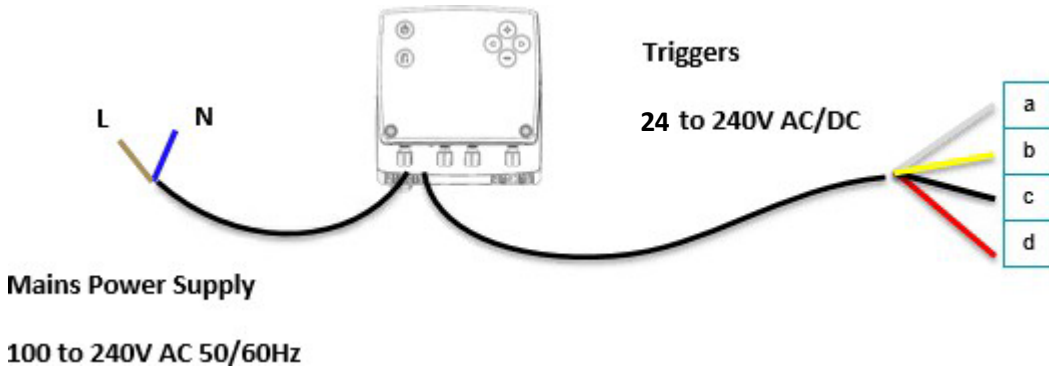
## First Installation of Peristaltic Tubing

<p><b>Step 1</b></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><b>Step 2</b></p> <p>Insert one end of the tube ensuring that it is slotted into the body of the housing as shown.</p> <p><b>PLEASE NOTE:</b> 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><b>Step 3</b></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><b>Step 4</b></p> <p>Slot the other end of the tube as shown. Repeat steps 2 to 4 for the other pump head.</p>	
<p><b>Step 5</b></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 (Top up) with the use of a conductive probe. The probe can be 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 host machine and can be set to run on a timed basis (suitable for Single tank/Door machines) or to run continuously whilst a rinse signal is present (suitable for conveyor/multi tank machines).

### Probeless Door – Pages 12 & 23

Suitable for single tank machines. Probeless Door mode operates on a timed dosage of Detergent (Top up), Rinse (Rinse) activated by an incoming signal from the host 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 (Top up) options are **Signalled** requiring a signal from the host 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**: Using a single signal from the host machine to operate detergent charge and rinse charge. When the signal remains high for longer than a programmable time the dispenser will stop Detergent and Rinse charges and start The initial charge.

### Probeless Conveyor – Pages 13 & 28

Suitable for Conveyor/Multi tank machines. Probeless Conveyor mode operates on a timed dosage of Detergent (Top up), Rinse (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 (Top up) 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, OFF no Initial charge,

## Probe Mode

### Detergent Operation

(Top up) 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). Auto operation the probe will operate on low concentration without the need for a trigger signal.

### Rinse Charge

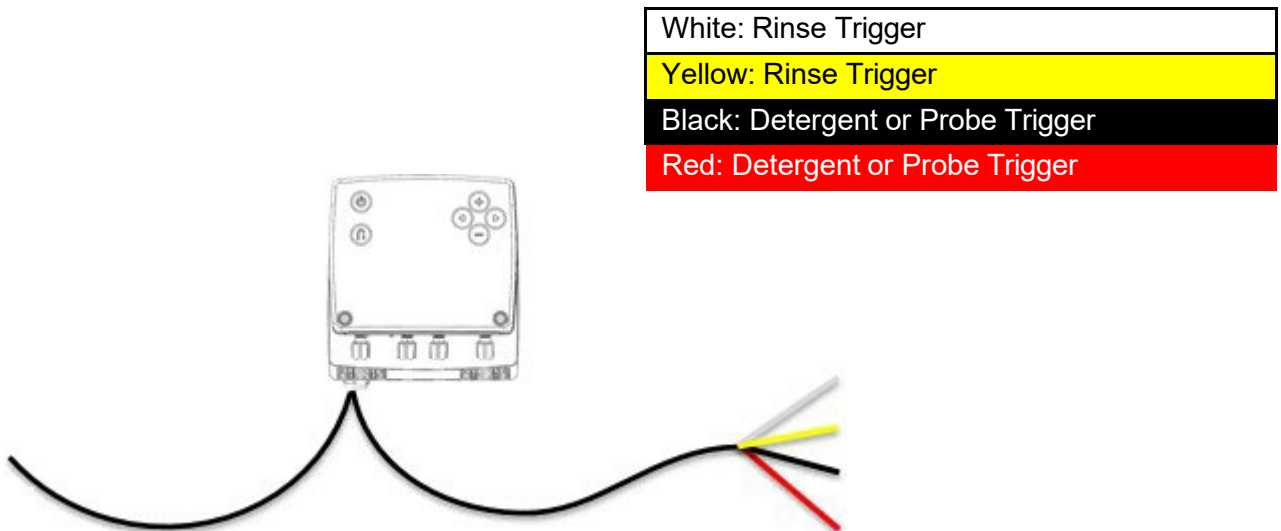
(Rinse) is initiated by a signal between 24V and 240V AC or DC being present on the Rinse input of the PCB (Yellow and White cores for the 4 core cable). Rinse options are Programmable run time or to operate for the duration of the signal with optional delay time.

### Sanitiser Charge

(sanitiser) is set to run proportional to Rinse without the need for a independent trigger signal.

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

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



## Probeless Door Mode

### Detergent and Rinse Operation (Top Up and Rinse)

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 Programmable run time or to operate for the duration of the signal with optional delay time.

Separate Detergent and Rinse charges are available by changing the “Link Detergent and Rinse signals” option found on page 23. If the signal option is changed to separate the two charges the blow becomes applicable:

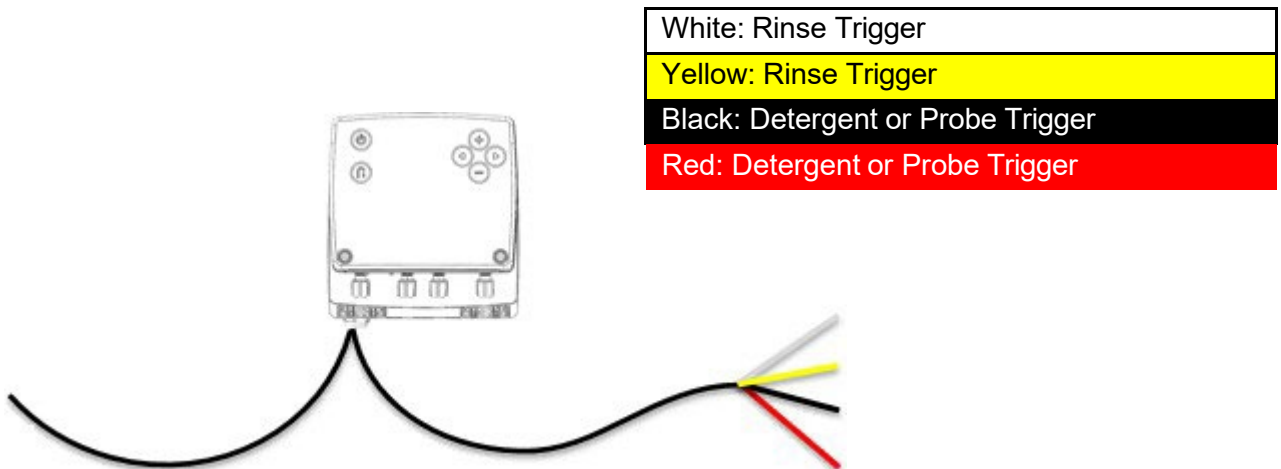
Detergent charge (Top up) is initiated by a signal between 24V and 240V AC or DC being present on the Detergent input of the PCB (Red and Black cores for the 4 core cable). Detergent will operate for a programmable run time.

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 Programmable run time or to operate for the duration of the signal with optional delay time.

### Sanitiser Charge

(Sanitiser) is set to run proportional to Rinse without the need for a independent trigger signal.

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



## Probeless Conveyor Mode

### Detergent and Rinse Operation (Top Up and Rinse)

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 has a configurable on and off 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 28. If the signal option is changed to separate the two charges the below becomes applicable:

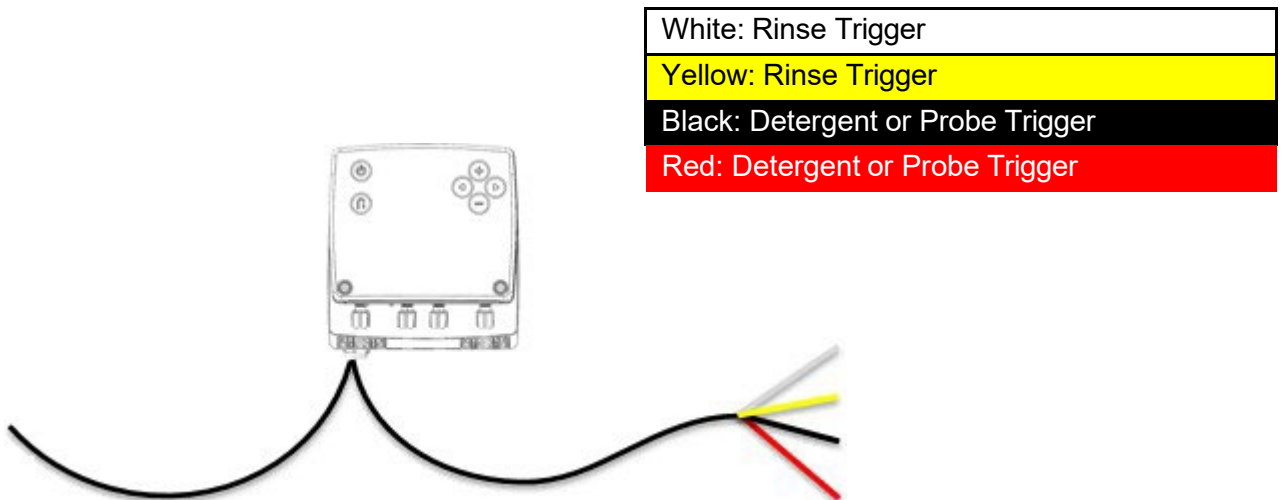
Detergent charge (Top up) is initiated by a signal between 24V and 240V AC or DC being present on the Detergent input of the PCB (Red and Black cores for the 4 core cable). Detergent will operate for the duration of the signal with optional delay time (Rack count).

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 has a configurable on and off time activated by the rinse signal going high.


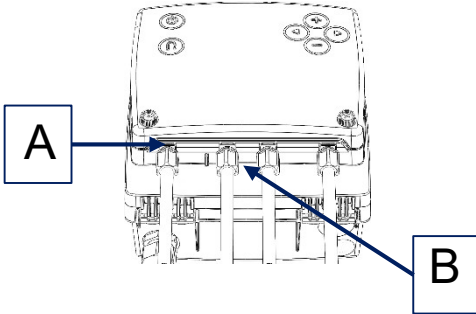
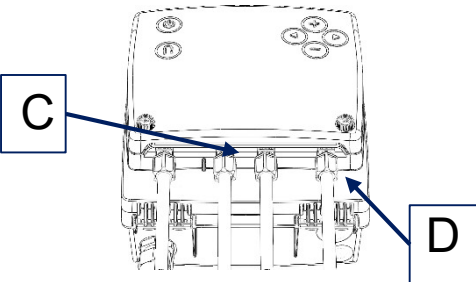
### Sanitiser Charge

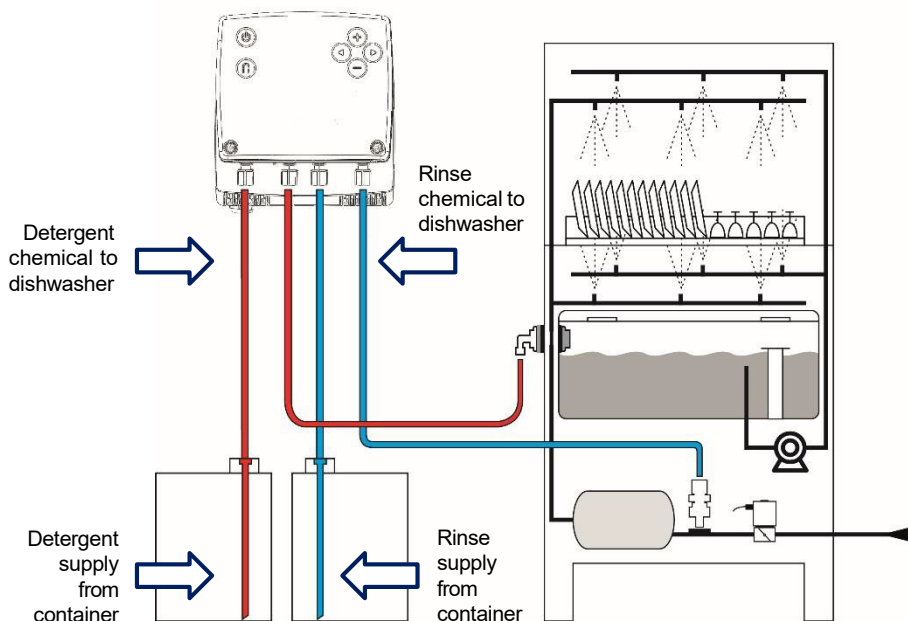
(Sanitiser) is set to run proportional to Rinse without the need for a independent trigger signal.

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

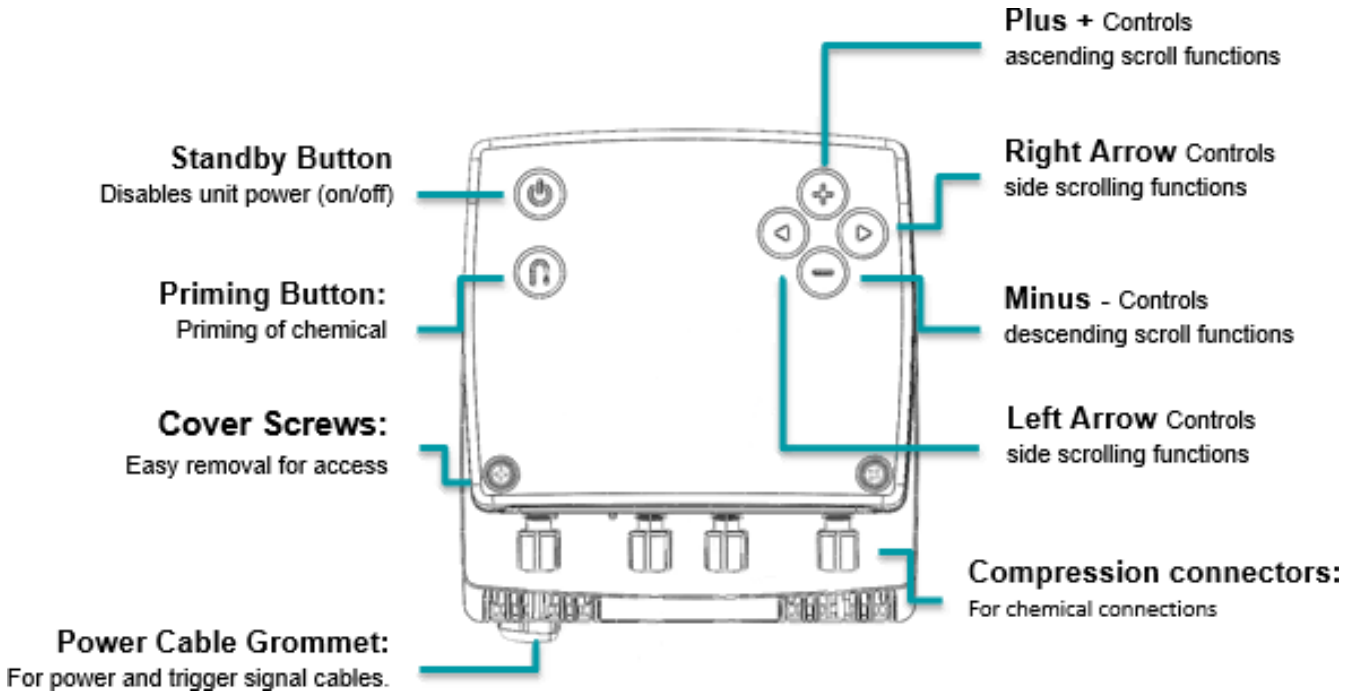


## Connecting Chemical Supplies

<p><b>Step 1</b></p> <p>Attach the suction tubes to the tube stiffeners and place in the chemical containers.</p>	
<p><b>Step 2</b></p> <p>Connect your detergent suction tube to the far left hand compression connector <b>(a)</b>, this is the corresponding pump you intend to use with this chemical.</p> <p>Then connect the detergent delivery tube <b>(b)</b> to your dishwasher tank injector.</p>	
<p><b>Step 3</b></p> <p>Connect your rinse aid suction tube to the left hand compression connector <b>(c)</b>, this is the corresponding pump you intend to use with this chemical. Then connect the right hand compression connector <b>(d)</b> 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 English
- Initial Charge Off
- Sanitiser to Copy Rinse No

Blue Menu's are visible in all modes.

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

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

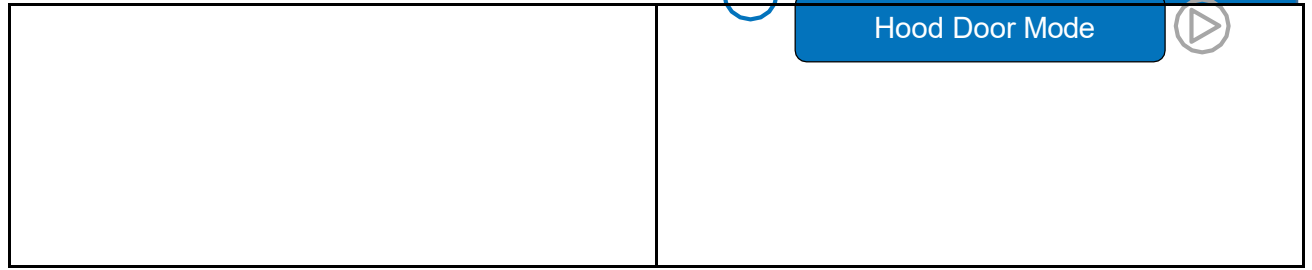
<p><b>Step 1:</b> When power is connected the unit will automatically power up. Now select your language using the Plus + or Minus – buttons to scroll up and down, press the RIGHT button &gt; to confirm your selection.</p>	
--	--

**Step 2:** set initial charge speed to 100%

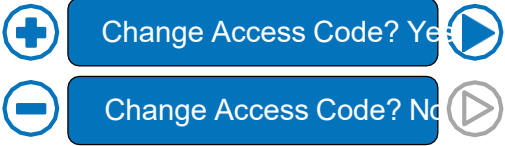
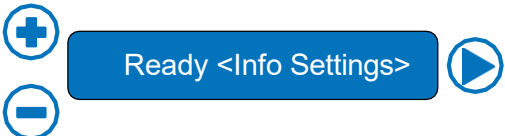
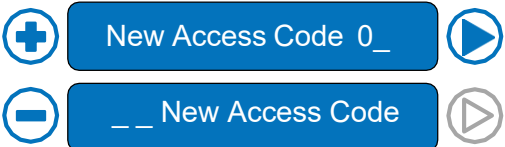
The unit can be configured with an optional 4-digit access code to prevent unauthorized access to configuration parameters.

<p><b>Step 3:</b> 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 &gt; to confirm your selection.</p>	
---	--

# Initial Set Up & Operation





<p><b>Step 4:</b> To setup the unit with an access code, press the Plus + or Minus – buttons to select YES, then press the RIGHT arrow &gt; to confirm the selection and move on to step 5. If no access code is required, move onto step 4.</p>	
<p><b>Step 5:</b> To setup the unit <b>without</b> an access code. Press the Plus + or Minus – buttons to select NO, and then press the right &gt; arrow to confirm the selection. The screen displays 'READY' and is prepared for programing. Press the RIGHT button &gt; to confirm this selection and move onto <b>step 6</b>.</p>	
<p><b>Step 6:</b> To set an access code press the Plus + or Minus- buttons to choose a number. Then press the RIGHT &gt; button to confirm the selection and move on to the next number in the code.  Repress RIGHT &gt; button to confirm.</p>	

**IMPORTANT: Solenoid Variants:** The Q200S and Q300S Solenoid variants of this unit follow the same process functions as Top up (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 17-22 **Probeless Door Mode:** Pages 23-27 **Probeless Conveyor Mode:** Pages 28-32

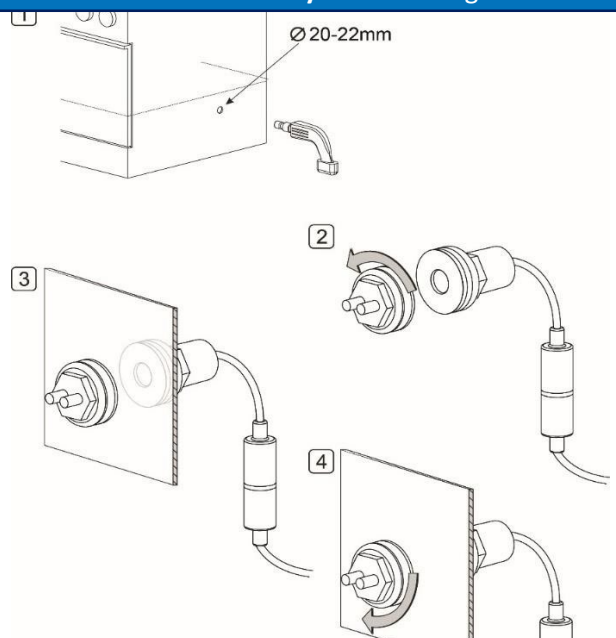
**Prior to Installation:** Please note that the probe is to be mounted at a minimum distance of no less than 100mm away from the tank injector (chemical injection point).

**Step 1:** Start by drilling a min Ø20mm or maximum Ø22mm hole, (less than 7/8”).

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

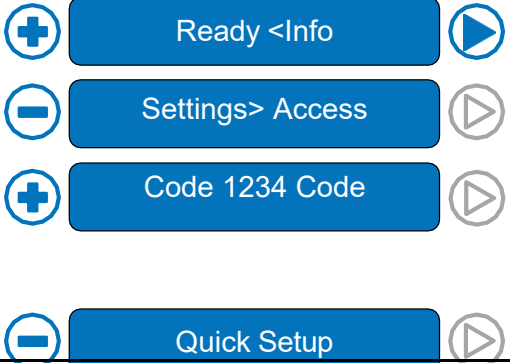
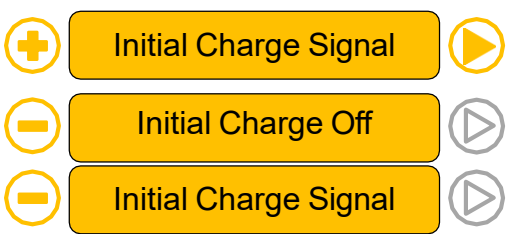
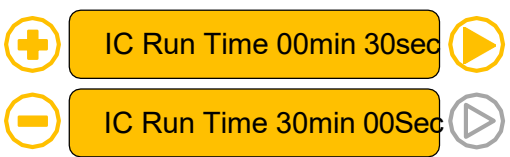
**Step 3:** Feed the body of the probe through the hole.

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

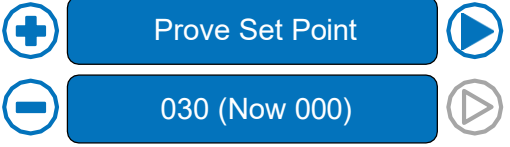


## Quick Set Up Programming: Probe Mode

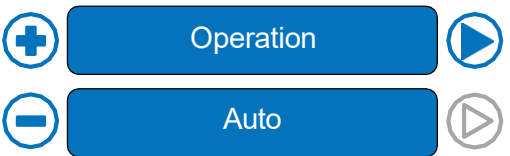
**Probe mode** - Detergent probe controls the dosage of detergent with adjustable delay time for the initial fill. Optional initial charge is also available.

<p><b>Step 1:</b> Start by pressing the RIGHT &gt; 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 &gt; 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 &gt; button (d).</p>	
<p><b>Step 2:</b> Initial Charge: to set the initial charge, use the Plus + or Minus buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	
<p><b>Step 3:</b> IC Run Time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	

**Probe set point** – Configurable chemical concentration point at which the pump will begin to dose should the level fall below this threshold. The screen also features a NOW display which will display current levels of concentration.

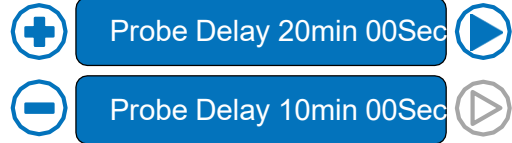
<p><b>Step 4:</b> Probe set point: Using the Plus + or Minus – buttons to select your chosen 'Probe Set Point' choose between the range of 0-250 (examples shown right). Confirm your selection by pressing the RIGHT &gt; button.</p>	
--	--

**Auto Operation** – Probe will automatically react to a drop in concentration. Using the UP & DOWN arrow it is possible to select '**Signal Operation**' 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.

<p><b>Step 5:</b> Operation: Choose between 'Auto Operation' or 'Signal Operation' by using the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	
--	--

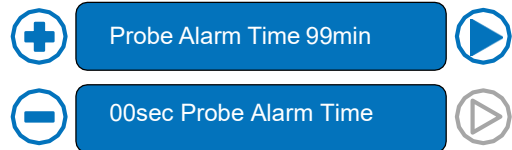
**Probe delay** – A configurable delay time, which will occur once after first power up. This feature allows for tank fill to take place before the probe begins checking concentration levels

**Step 6:** Probe delay: to set the probe delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button.



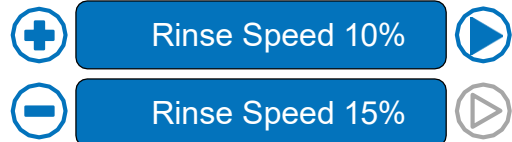
**Probe alarm time** – Configurable alarm time. If the pump exceeds a run time higher than the alarm time, Top up will stop, display a warning light and sound a buzzer to indicate a potential issue with water levels or chemical supply

**Step 7:** Probe alarm time: Set the delay time for the internal alarm to sound when the unit has run out of water or chemical supply (for example 01:30 is equal to 1 min 30secs before the alarm would sound). Use the Plus + or Minus – buttons to change the units. Confirm your selection by pressing the RIGHT > button. Please note: If you have no need for 'Initial Charge' or 'IC Run Time' please skip to Step 8.





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


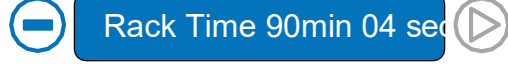
**Step 8:** Rinse speeds: to set the running speed of the pump, use the Plus + or Minus – buttons to select, (this is shown as a percentage %). Confirm your selection by pressing the RIGHT > button.  
TIP By pressing prime button you can simulate the setting.





**Rinse operations** – Configurable rinse operations. “Run for set time” is a configurable run time Rinse will activate for when a signal is received on RINSE INPUT. “Run on signal” allows the rinse pump to operate for the duration of a rinse signal on RINSE INPUT. “Run conveyor” allows the rinse pump to operate for the duration of a signal on RINSE INPUT and also contains a rack count feature to record the amount of washes completed.

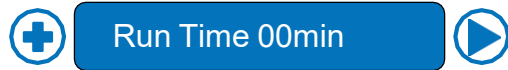

<p><b>Step 9a:</b> Rinse operation: to set the run time of the pump, use the Plus + or Minus – buttons to select ‘Door/Door mode’, select ‘Conveyor Mode’. Confirm your selection by pressing the RIGHT &gt; button.</p>	 
--	---

**Rack time (Cyclic mode 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.



<p><b>Step 9b:</b> Rack time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 
---	--

<p><b>Step 10:</b> Rinse On time: to set the rinse on time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button, repeat for changing the seconds. Once complete press the RIGHT &gt; button again to confirm.</p>	 
---	---



**Rinse Run Time** – 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><b>Step 11:</b> Rinse run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button, repeat for changing the seconds. Go to Step 16a if you are not connecting a 3rd Pump.</p>	 
--	---



**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><b>Step 12:</b> Rinse delay time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 
--	---





<p><b>Step 13:</b> sanitiser, copy Rinse settings: Press the Plus + or Minus – buttons to select either YES or NO. Confirm your selection by pressing the RIGHT &gt; button.</p>	 
--	---

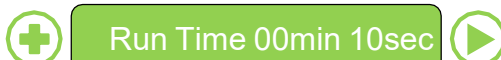

**Sanitiser Speed** – Adjustable Rinse pump speed option in increments of 5%.

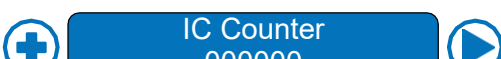

<p><b>Step 14:</b> sanitiser speed: to set the running speed of the pump, use the Plus + or Minus – buttons to select, this is shown as a percentage (%). Confirm your selection by pressing the RIGHT &gt; button.</p>	 
---	---


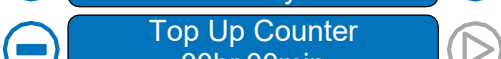
**sanitiser Delay Time** – Configurable delay time for rinse, when the rinse signal is received the delay time will activate before allowing the rinse pump to operate.

<p><b>Step 15:</b> sanitiser delay time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 
--	--

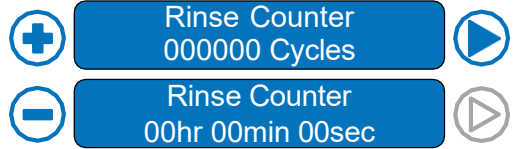
**sanitiser Delay Time** – Configurable delay time for sanitiser, when the Sanitiser signal is received the delay time will activate before allowing sanitiser to operate. Note this option will only be displayed if sanitiser to copy Rinse NO option is selected.

<p><b>Step 16:</b> sanitiser run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button, repeat for changing the seconds</p>	 
--	---

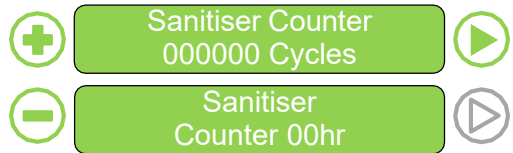
<p><b>Step 17:</b> Initial charge counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes &amp; Seconds. Holding either the Plus + or Minus – buttons will reset the counters.</p>	 
--	---

<p><b>Step 18:</b> Top up counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes &amp; Seconds. Holding either the Plus + or Minus – buttons will reset the counters.</p>	 
--	---

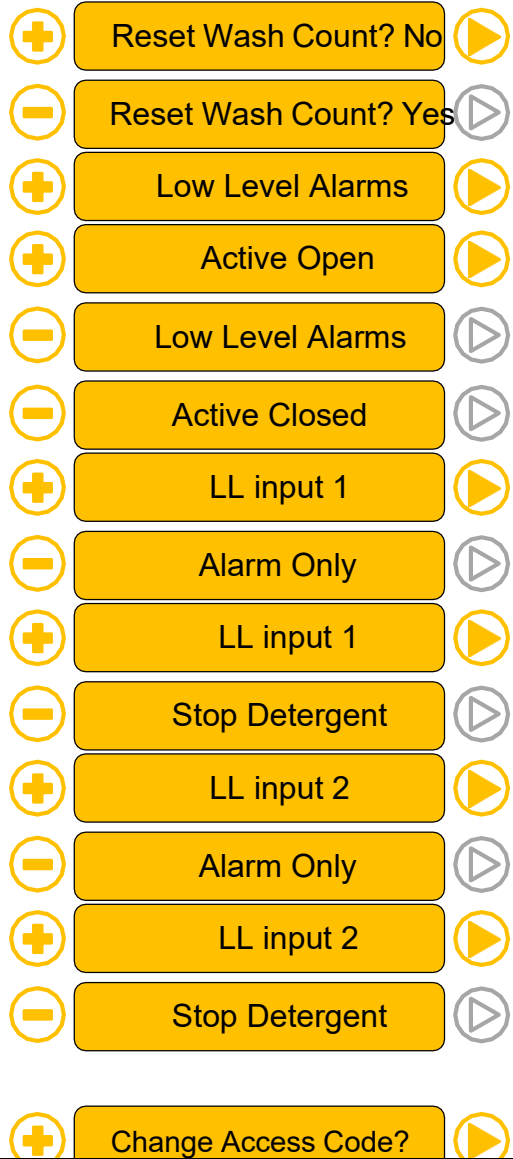
**Step 19:** Rinse Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Holding either the Plus + or Minus – buttons will reset the counters.



**Step 20:** Sanitiser Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Holding either the Plus + or Minus – buttons will reset the counters.



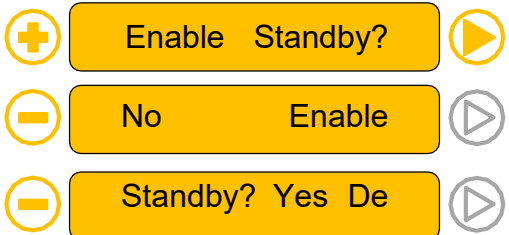
**Step 21:** Resetting the wash count: to reset the wash count, use the Plus + or Minus – buttons highlight YES. Confirm your selection by pressing the RIGHT > button. You will then be asked if you wish to change the access code to the unit before leaving this process **(if you answer YES follow Steps 1-3 on page 17 on how to do this). If NO, skip to Step 17**



	<p>No Change Access</p> <p>Code? Yes</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><b>Step 22:</b> Enable standby: this allows maintenance to be carried out. Select YES by pressing RIGHT &gt; button. If you select NO, standby mode is disabled. Step: 17b : De Lime time can be adjusted by pressing the UP+ or DOWN- buttons. Confirm your selection by press the RIGHT &gt; button.</p>	 <p>Enable Standby?</p> <p>No Enable</p> <p>Standby? Yes De</p> <p>Lime Time 00min</p>
---	--



**Step 23:** Enable water

Enable Water? No



Enable Water?

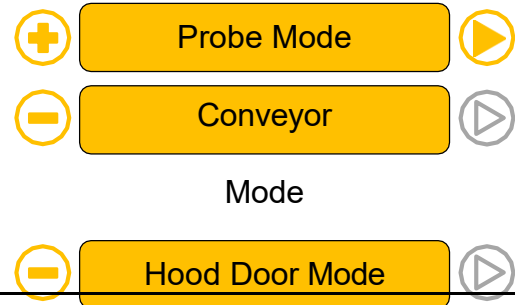


Yes

**Step 24:** Link rinse and detergent signals: When YES is selected the rinse signal alone will trigger both Top up and Rinse. If NO is selected two separate feeds will be required for Top up and Rinse. Use the Plus + or Minus - buttons to select either YES or NO. Confirm your selection by pressing the RIGHT > button. If you select NO, you will return to the home page and the process is complete







**Step 25:** Selecting the operating mode, pressing the Plus + or Minus – buttons changes the screen to show Probe, Conveyor or Door/Door . Once selection has been chosen press the >Right button to select that mode.








**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><b>Step 1:</b> Start by pressing the RIGHT &gt; button (a). Enter your unique 'Access Code', now press the RIGHT &gt; 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 &gt; button (d).</p>	   
---	---

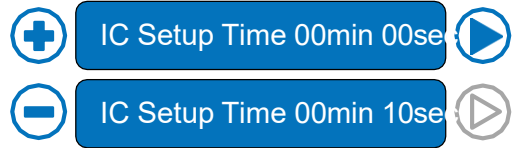
<p><b>Step 2:</b> Initial Charge: Using the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p> <p>*See note in step 4 if using 'Auto Initial Charge' functions.</p>	    
---	---

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



<p><b>Step 3:</b> IC Speed: to set the probe delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; 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 Detergent top up & 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 and Top Up operation ONLY.



**Step 4:** IC set up time: to set the time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT > button. Skip to step 7 if you do not need an IC delay time.






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



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

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



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

<p><b>Step 7:</b> Probe alarm time only adds is probe is fitted</p>	  
---	---



**Top up Speed** – Adjustable detergent top up pump speed option in increments of 5%

<p><b>Step 8:</b> Top up speed: to set the Top up speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 
---	---





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

<p><b>Step 9:</b> Top up every 01 racks: to set the Top up speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 
--	---





**Top up Run Time** – Configurable run time Top up will operate when a top up signal is received

<p><b>Step 10:</b> Top up run time: to set speed of Top up, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 
--	---





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

<p><b>Step 11:</b> Rinse speed: to set the Top up speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 Rinse Speed 75%   Rinse Speed 70% 
---	--





**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><b>Step 12:</b> Rinse delay: to set the delay time of Rinse, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 Rinse Delay 00min 05secs   Rinse Delay 60min 10secs 
--	--





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

<p><b>Step 13:</b> Rinse operation: to set the run time of the pump, 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 &gt; button.</p>	 Rinse run for set time   Rinse run on signal 
--	---





**Rinse Run Time** – 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.

<p><b>Step 14:</b> Rinse run time: to set the run time of Rinse, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 Rinse Run Time 00min 05secs   Rinse Run Time 60min 10secs 
---	--

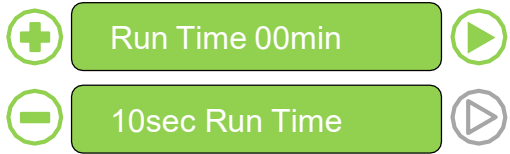
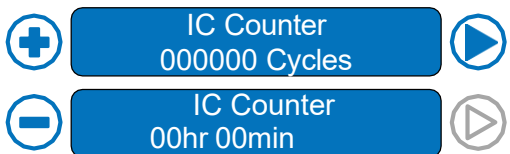
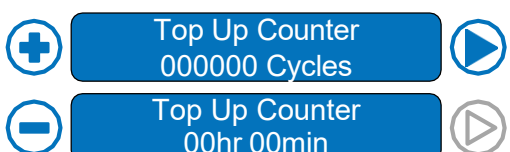
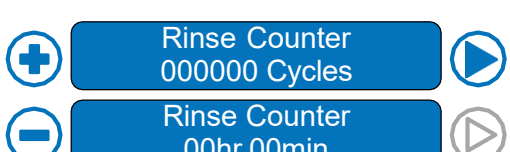
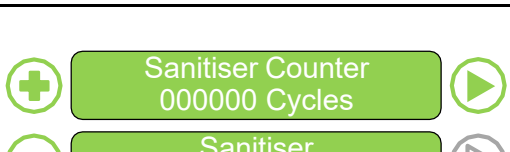
**Step 15:** sanitiser, copy of Rinse settings: Press the Plus + or Minus – buttons to select either YES or NO. Confirm your selection by pressing the RIGHT > button.

 Sanitiser to Copy Rinse Yes   
 Sanitiser to Copy Rinse No 

































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

<p><b>Step 16:</b> sanitiser 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 &gt; button.</p>	 Sanitiser Speed 10%   Sanitiser Speed 15% 
---	--

**sanitiser Run Time** – Configurable run time sanitiser will operate when signal is received. Note this option will only be displayed if sanitiser to copy Rinse NO option is selected

<p><b>Step 17:</b> sanitiser run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button, repeat for changing the seconds.</p>	
<p><b>Step 18:</b> Initial charge counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes &amp; Seconds. Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p><b>Step 19:</b> Top up counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes &amp; Seconds. Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p><b>Step 20:</b> Rinse Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes &amp; Seconds. Holding either the Plus + or Minus – buttons will reset the counters.</p>	
<p><b>Step 21:</b> Sanitiser Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes &amp; Seconds. Holding either the Plus + or Minus – buttons will reset the counters.</p>	

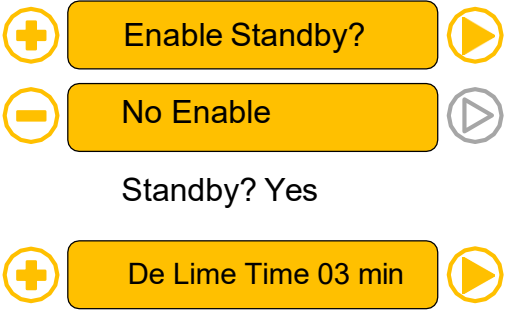
**Step 22:** Resetting the wash count: to reset the wash count, use the UP + or DOWN - buttons highlight YES. Confirm your selection by pressing the RIGHT > button. Step 17b: You will then be asked if you wish to change the access code to the unit before leaving this process (if you answer **YES follow Steps 1-4 on page 12 on how to do this). If NO, skip to Step 18.**

-  Reset Wash Count? 
-  No Reset Wash 
- Count? Yes
-  Low level Alarms 
-  Active Open 
-  Low level Alarms 
-  Active Closed 
-  LL Input 1 
-  Alarm Only 
-  LL Input 1 
-  Stop Detergent 
-  LL Input 2 
-  Alarm Only 
-  LL Input 2 
-  Stop Rinse 
-  Change Access Code? No 
-  Change Access Code? Yes 

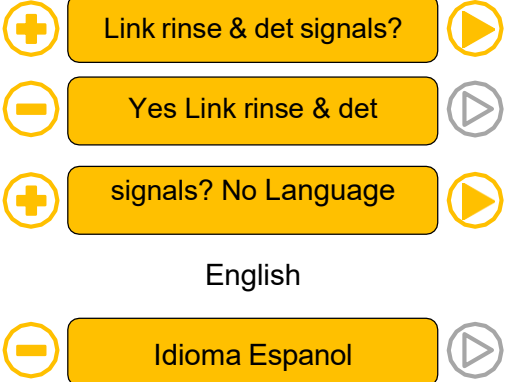


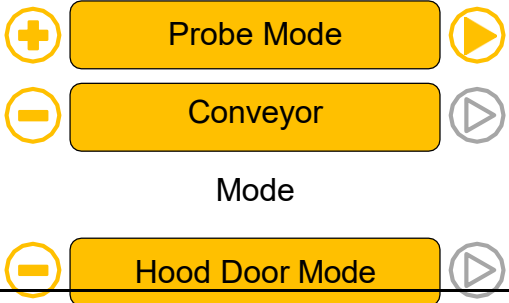
**Standby mode** can be toggled ON or OFF depending on preference. If NO is selected the standby function will not work.

**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><b>Step 22:</b> Enable standby: this allows maintenance to be carried out. Select YES by pressing RIGHT &gt; button. If you select NO, standby mode is disabled. 18b: De Lime time can be adjusted by pressing the UP+ or DOWN- buttons. Confirm your selection by press the RIGHT &gt; button.</p>	
--	--

**Rinse Delay Time** – Configurable delay time for rinse, when the rinse signal is received the delay time will activate before allowing the rinse pump to operate.

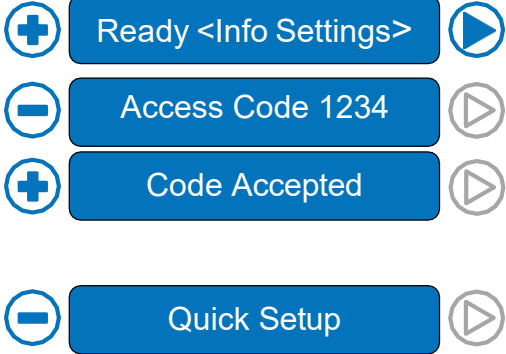
<p><b>Step 23:</b> Link rinse and detergent signals: When YES is selected the rinse signal alone will trigger both Top up and Rinse. If NO is selected two separate feeds will be required for Top up and Rinse. Use the Plus + or Minus - buttons to select either YES or NO. Confirm your selection by pressing the RIGHT &gt; button. If you select NO, you will return to the home page and the process is complete.</p>	
--	--

<p><b>Step 24:</b> Selecting the operating mode, pressing the Plus + or Minus – buttons changes the screen to show Probe, Conveyor or Door/Door . Once selection has been chosen press the &gt;Right button to select that mode.</p>	
--	--

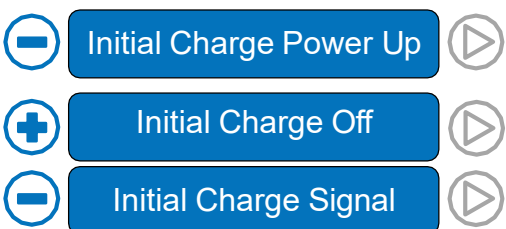
**This Concludes Probeless Door Programming.**

## Quick Set Up Programming: Probeless Conveyor Mode

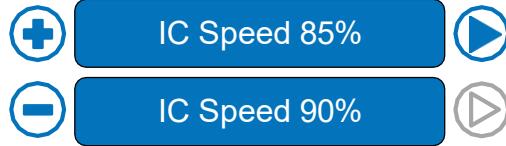
**Probeless Conveyor Mode** - Timed detergent operation, with optional rinse operations. Rinse on signal with adjustable delay time or rinse run time.

<p><b>Step 1:</b> Start by pressing the RIGHT &gt; button (a). Enter your unique 'Access Code', now press the RIGHT &gt; 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 &gt; button (d)</p>	 <p>Ready &lt;Info Settings&gt;</p> <p>Access Code 1234</p> <p>Code Accepted</p> <p>Quick Setup</p>
--	---

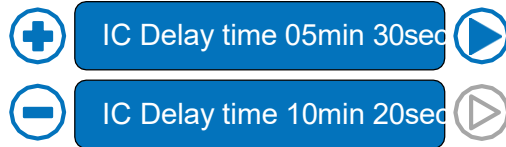
**Initial charge** – Referred to as IC it is the initial dose of product when a tank fill operation occurs in the washer.

<p><b>Step 2:</b> Initial Charge: Using the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p> <p>*See note in step 5 if using auto charge functions.</p>	 <p>Initial Charge Power Up</p> <p>Initial Charge Off</p> <p>Initial Charge Signal</p>
---	---

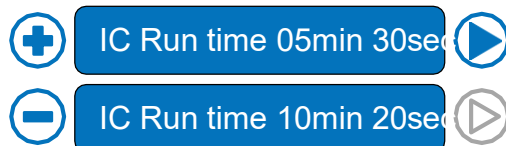
**IC Speed** – Adjustable Initial charge pump speed option in increments of 5%.

<p><b>Step 3:</b> IC Speed: to set the probe delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button</p>	 <p>IC Speed 85%</p> <p>IC Speed 90%</p>
--	--

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





<p><b>Step 4:</b> IC delay time: to set the delay time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button</p>	 <p>IC Delay time 05min 30sec</p> <p>IC Delay time 10min 20sec</p>
---	--

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





<p><b>Step 5:</b> IC run time: to set the run time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 <p>IC Run time 05min 30sec</p> <p>IC Run time 10min 20sec</p>
--	--







**Top up Speed** – Adjustable detergent top up pump speed option in increments of 5%.

<p><b>Step 6:</b> Top up speed: to set the Top up speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 <span>Top up speed 10%</span> 
	 <span>Top up speed 15%</span> 





**Rack Time** – Configurable time used to programme the duration of 1 rack from start of wash to end of wash.

<p><b>Step 7:</b> Rack time: to set the time of the rack, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 <span>Rack Time 00min 40sec</span> 
	 <span>Rack Time 90min 40sec</span> 





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





<p><b>Step 8:</b> Top up every 01 racks: to set the Top up speed, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button.</p>	 <span>Top up every 01 racks</span> 
	 <span>Top up every 02 racks</span> 

**Top up Run time** – Configurable run time Top up will operate when a top up signal is received

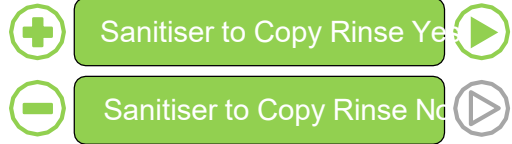
<p><b>Step 9:</b> Top up run time: to set the delay time of Rinse, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button</p>	 <span>Top up run time 00min 08sec</span> 
	 <span>Top up run time 60min 10sec</span> 

**Rinse Run** when the signal is present.

<p><b>Step 10:</b> 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 &gt; button</p>	 <span>Rinse Speed 60%</span> 
	 <span>Rinse Speed 55%</span> 

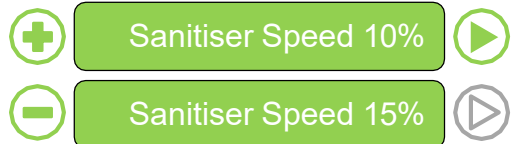
<p><b>Step 11:</b> Rinse On time: to set the rinse on time, use the Plus + or Minus – buttons. Confirm your selection by pressing the RIGHT &gt; button, repeat for changing the seconds. Once complete press the RIGHT &gt; button again to confirm.</p>	 <span>Rinse On Time 00min 00sec</span> 
	 <span>Rinse Off Time 99min 59sec</span> 

**Step 12:** sanitiser copy of  
Top up settings or sanitiser to copy  
Rinse or No copy pumps: Press the  
Plus + or Minus – buttons to select.  
Confirm your selection by pressing the  
RIGHT > button.



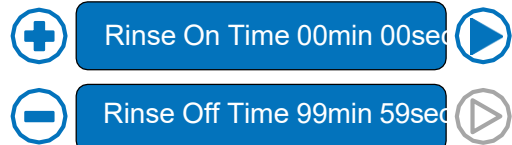
**Sanitiser Speed** – Adjustable Rinse pump speed option in increments of 5%.

**Step 13:** sanitiser 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

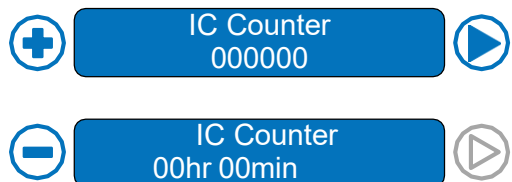


**Sanitiser Delay** – Configurable run time sanitiser will be delayed when signal/command is received. Note this option will only be displayed if No Copy Pumps option is selected.

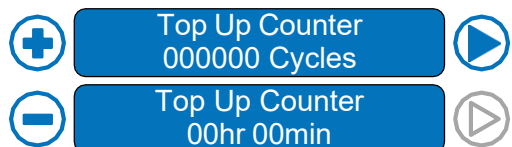
**Step 14:** Rinse On time: to set the rinse on  
time, use the Plus + or Minus – buttons.  
Confirm your selection by pressing the RIGHT  
> button, repeat for changing the seconds.  
Once complete press the RIGHT > button  
again to confirm.



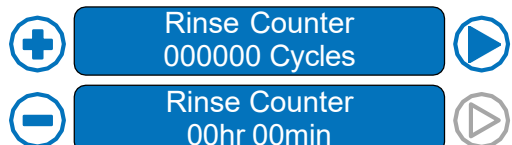
**Step 15:** Initial charge counter show the total  
cycles, pressing the Plus + or Minus – buttons  
changes the screen to show Hours, Minutes &  
Seconds. Holding either the Plus + or Minus –  
buttons will reset the counters.



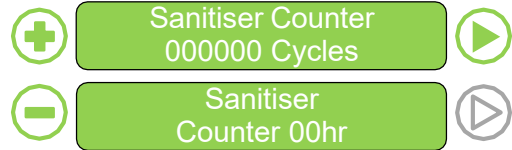
**Step 16:** Top up counter show the total  
cycles, pressing the Plus + or Minus – buttons  
changes the screen to show Hours, Minutes &  
Seconds. Holding either the Plus + or Minus –  
buttons will reset the counters.



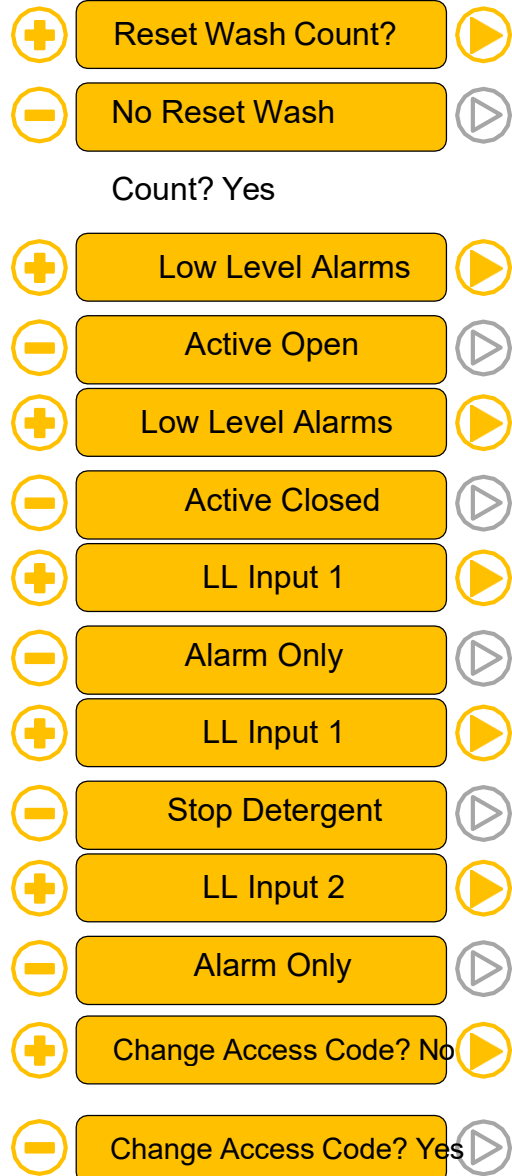
**Step 17:** Rinse Counter show the total  
cycles, pressing the Plus + or Minus – buttons  
changes the screen to show Hours, Minutes &  
Seconds. Holding either the Plus + or Minus –  
buttons will reset the counters.



**Step 18:** Sanitiser Counter show the total cycles, pressing the Plus + or Minus – buttons changes the screen to show Hours, Minutes & Seconds. Holding either the Plus + or Minus – buttons will reset the counters.

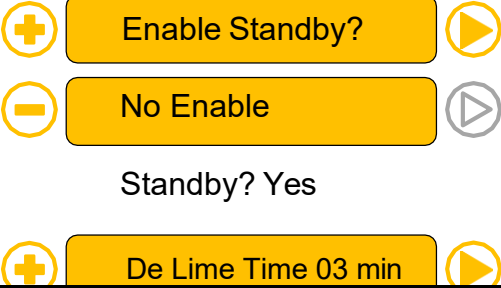



**Step 19:** Resetting the wash count: to reset the wash count, use the Plus + or Minus – buttons highlight YES. Confirm your selection by pressing the RIGHT > button. Step 17b: You will then be asked if you wish to change the access code to the unit before leaving this process (if you answer YES follow Steps 1-4 on how to do this).

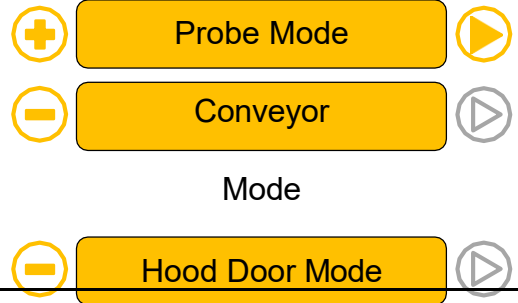


**Standby mode** can be toggled ON or OFF depending on preference. If NO is selected the standby function will not work.

**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><b>Step 20:</b> Enable standby: this allows maintenance to be carried out. Select YES by pressing RIGHT &gt; button. If you select NO, standby mode is disabled. 18b: De Lime time can be adjusted by pressing the Plus + or Minus – buttons. Confirm your selection by press the RIGHT &gt; button.</p>	 <p>Enable Standby?</p> <p>No Enable</p> <p>Standby? Yes</p> <p>De Lime Time 03 min</p>
<p><b>Step 21:</b> Link rinse and detergent signals: When YES is selected the rinse signal alone will trigger both Top up and Rinse. If NO is selected two separate feeds will be required for Top up and Rinse. Use the Plus + or Minus – buttons to select either YES or NO. Confirm your selection by pressing the RIGHT &gt; button. If you select NO, you will return to the home</p>	 <p>Link rinse &amp; det signals?</p> <p>Yes Link rinse &amp; det</p> <p>signals? No Language</p> <p>English</p> <p>Idioma Espanol</p>

**Step 22:** Selecting the operating mode, pressing the Plus + or Minus – buttons changes the screen to show Probe, Conveyor or Door/Door . Once selection has been chosen press the >Right button to select that mode.

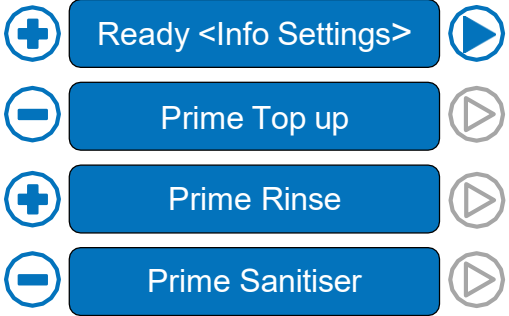


**This Concludes Probeless Conveyor programming.**



## 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 &gt; 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>	
---	--

## 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 prolong 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

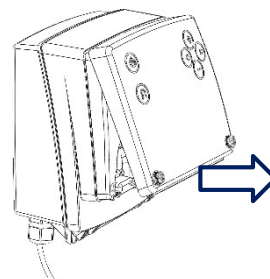
Wipe the unit with a soft damp cloth; avoid using harmful chemicals as this could potentially damage the housing or safety labels.

## 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.

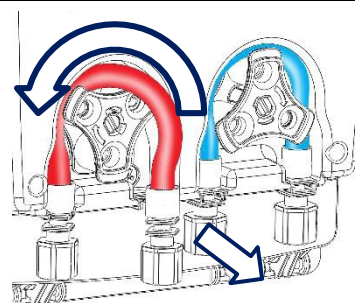
**IMPORTANT:** Before removing the tubes make sure you are wearing the appropriate eye protection and gloves in case any chemical suddenly escapes from the tube during this procedure.

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

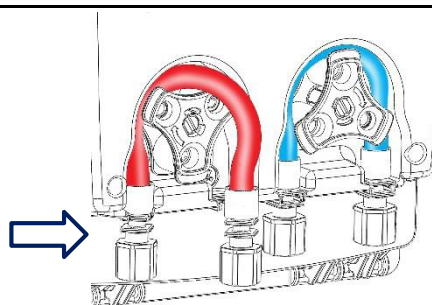


**Step 2:** Carefully disconnect the corresponding container inlet/discharge tubing while avoiding any spillage of chemical.

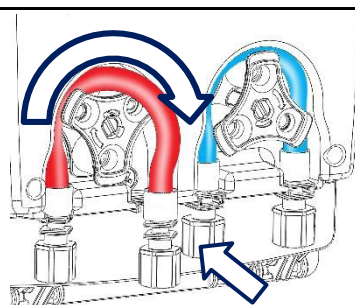
Now remove the old peristaltic tubes as shown by carefully working them around the pump head until free in an anti-clockwise direction.



**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

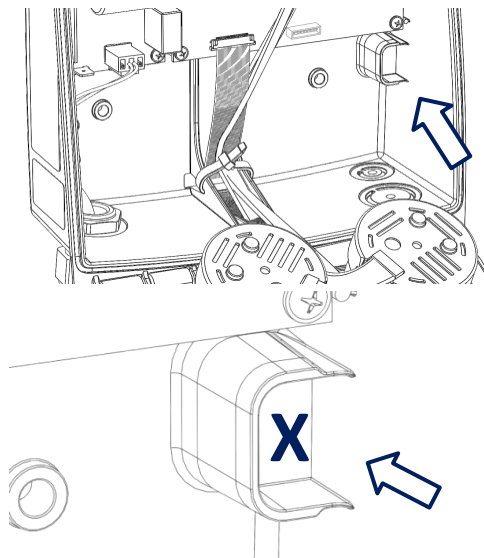
<b>Will not turn on</b>	<p>Check main power supply with a volt meter            Check Inline fuse if used            Change out Mains Power board or Interface PCB</p>
<b>Display will not illuminate</b>	<p>Check power supply with a volt meter            Check Standby status by pressing standby button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

**FOR ALL OTHER FAULT ISSUES CONTACT YOUR SERVICE TECHNICIAN**

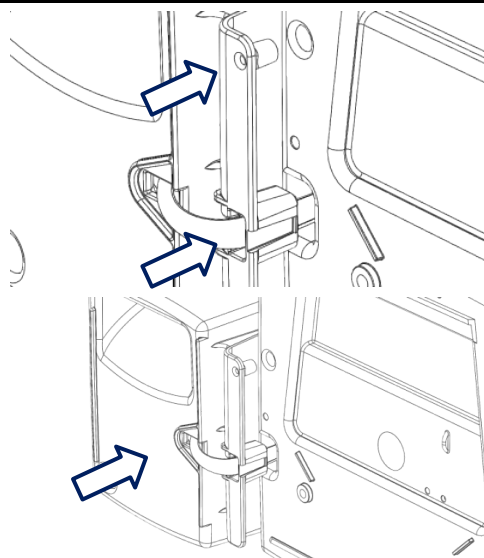
## How to connect a Third Pump

**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).

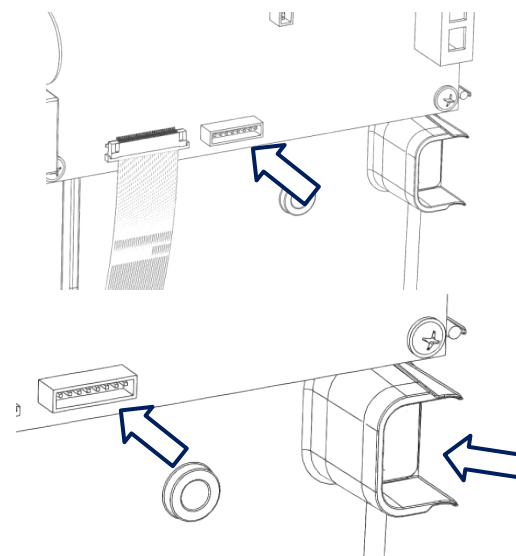
**Important Note:** In order to maintain the IP rating only the area shown should be knocked through.



**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.

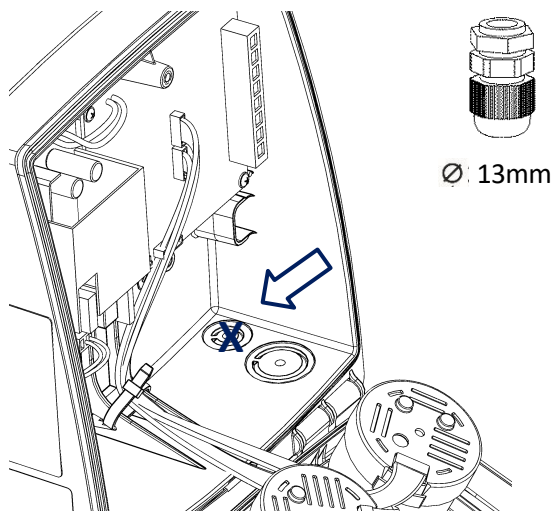


**Step 3:** Now connect this cable to the PCB board (shown right).

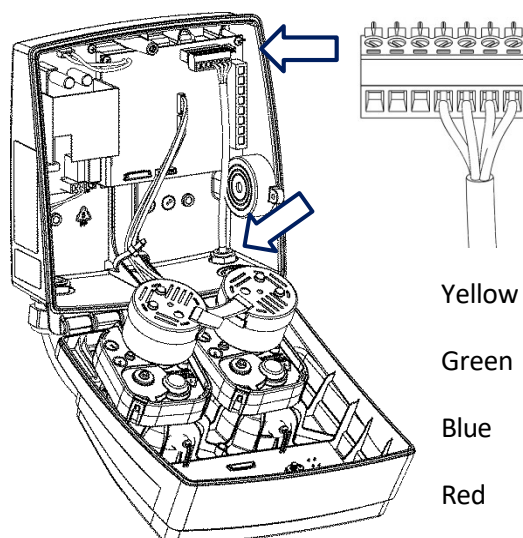


## How to connect a probe

**Step 1:** Remove the 13mm knock out on the underside of the unit and fit the probe gland which is included in the probe kit.

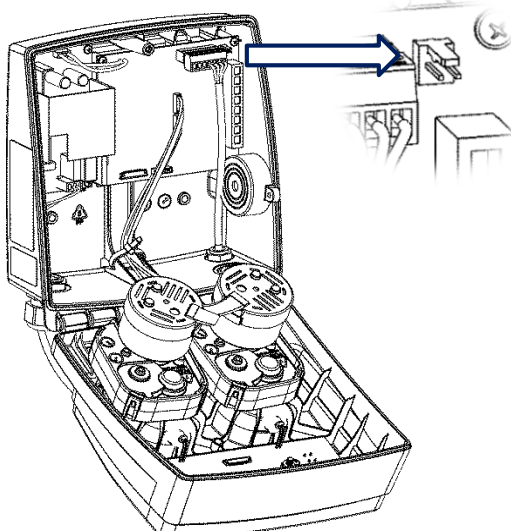


**Step 2:** Feed the probe cable through the 13mm gland and connect the 4 wires from the probe to the 7 way green connector provided with the probe kit as shown.

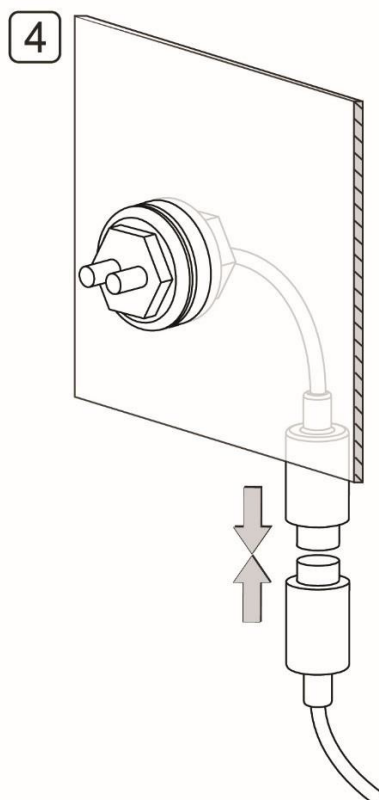
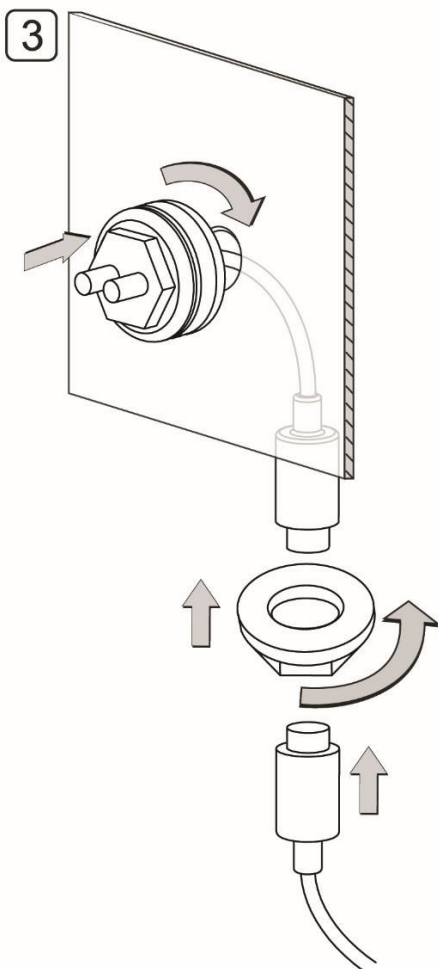
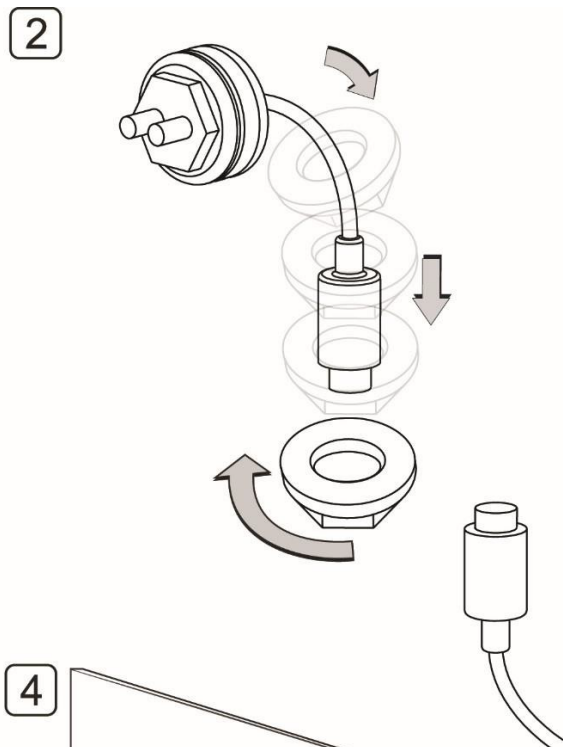
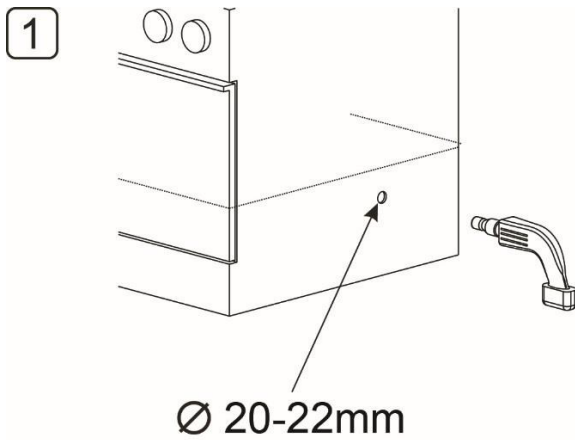


**Step 3:** Connect the buzzer provided in the kit to the Probe buzzer connector.

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

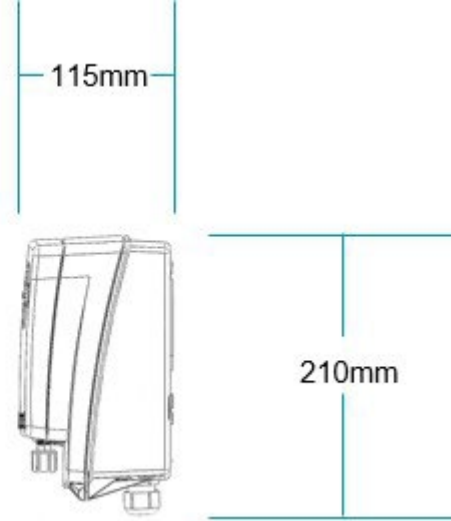
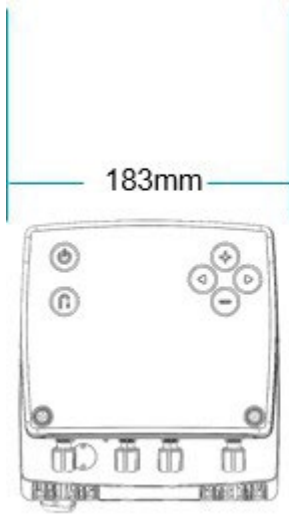


# Technical Specifications

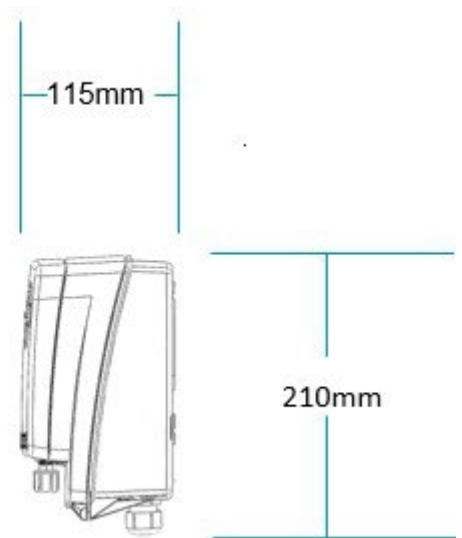
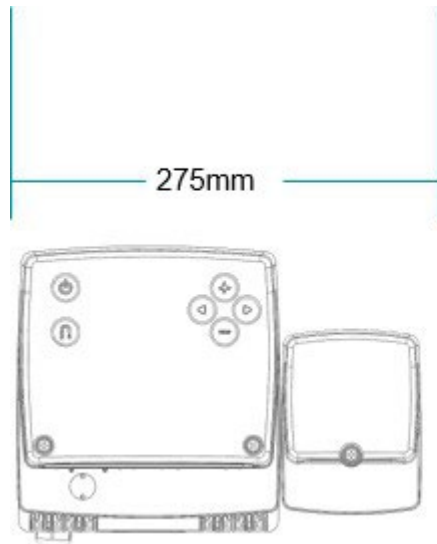
<b>Power Supply</b>	<b>Voltage</b>		110-240V AC
	<b>Frequency</b>		50/60Hz
	<b>Current</b>	Q200	0.22A @240V
		Q200	0.15A @240V
		S	0.33A @240V
<b>Power</b>	Q300	0.25A @240V	
	Q300		
	S	28W	
	Q200	17W	
	Q200	42W	
	S	32W	
	Q300		
	Q300		
	S		
<b>Motor</b>	24V DC		
<b>Pump</b>	Detergent: 30 - 250ml/min (BrightChem tube) Rinse: 3 - 30ml/min (BrightChem tube) Sanitiser 6 – 80ml/min (BrightChem tube)		
<b>Enclosure</b>	LG Lupol GP 3156F. White RAL9003 IP55 Rated.		
<b>Weight</b>	Q200 2kg Q200S 2kg Q300 3kg Q300S 3kg		

## 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:

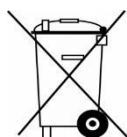
EN 61000-6-1: 2007	Electromagnetic Compatibility (EMC)
EN 61000-6-3: 2007, A1: 2001	Electromagnetic Compatibility (EMC)
EN 60335-1	Electrical Safety
EN 60335-2-41	Electrical Safety
EN 61000-6-2: 2005	Electromagnetic Compatibility (EMC)
EN 60526: 1992, A2: 2003	IP Testing
BS EN 62311: 2008	EMF Testing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



GB IRL	<ul style="list-style-type: none"> <li>• Environment protection first !</li> <li>• Your appliance contains valuable materials which can be recovered or recycled.</li> <li>• Leave it at a local civic waste collection point.</li> </ul>
F	<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>
D A	<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>
E	<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 Especifico o en uno de nuestros Servicios Of iciales Post Venta donde será tratado de forma adecuada.</p>
I	<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>
NL	<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>
PL	<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>
CZ	<p>Podílejme se na ochranu životního prostředí ! Váš přístroj obsahuje čitelné a hodnotitelné nebo recyklovatelné materiály.</p> <p>Sveďte jej sbernému místu nebo, neexistuje-li, smluvnímu servisnímu středisku, kde a ním bude naloženo odpovídajícím způsobem.</p>



## **Brightwell Dispensers LTD**

**Unit 1, Rich Industrial Estate, Avis Way, Newhaven, East Sussex, BN9 0DU, UK**

**T +44 (0)1273 513 566 F +44 (0)1273 516134 E [sales@Brightwell.co.uk](mailto:sales@Brightwell.co.uk) W [Brightwell.co.uk](http://Brightwell.co.uk)**

**VAT No: GB 100 1998 47. Company registration No: 0661996. Registered in England**