Quantura Dishwash Dosing System



Safety Notes

IMPORTANT:

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.



<u>Do not</u> open the enclosure without <u>isolating the signal and supply sources</u>. Ensure that these sources have been isolated for at least 5 minutes before entering the enclosure.



<u>Do not</u> power the unit outside of the values stated on the rating label.



<u>Do not</u> use damaged or frayed cables.



<u>Do not</u> dismantle or modify this equipment. **<u>Never</u>** insert fingers into



mechanisms without turning the power supply off first. **Do not** dismantle or modify this



equipment. **Do not** mount the unit to unstable, irregular or non-

vertical surfaces.



<u>Do not</u> place heavy objects on top of the unit.



<u>Do not</u> attempt to place items (such as screwdrivers) into the moving parts of the pump head.



<u>Always</u> ensure that care is taken when handling chemicals.



<u>Do not</u> discard of the manual, this must be retained.

This unit must be installed by suitably qualified personnel in accordance with local regulations, or in the absence of local regulations, 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.

Before Installation

Ensure you have checked all parts required are present and inspect for any damage before installation. In the unlikely event your items are faulty, **DO NOT** install faulty or damaged parts as this unsafe and will void any warranty. Please return 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.

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.



Peristaltic tubing



Rinse Injector & rinse adaptor

Tube Stiffener

Tank Injector

Polyethylene Tubing 3000mm × 2

Fixings Pack: Screws × 4 Wall plugs ×4

Full User Manual available from the website www.brightwell.co.uk

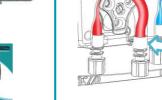












Installation

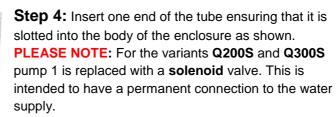
Mounting and connection

Step 1: Using the wall plugs and screws specified for this unit, fix the mounting bracket to the wall. There is an embedded spirit level to aid with this part of the installation.

Step 2: 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.

IMPORTANT NOTE: The main unit <u>MUST</u> have a security fixing retaining it to the wall before the unit lid is closed.

Step 3: Ensure there is no power to the unit or it is in standby mode. Remove front cover by turning thumb screws anti-clockwise and pulling the front cover towards you as shown.



Step 5: 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.

Step 6: Now insert the other end of the tube ensuring that it is slotted into the body of the enclosure as shown (Repeat steps 1-4 for the other pump head).

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.

Wiring Configurations

Mains Power Supply

Connect Brown and Blue cores of the two core cable to a maximum 240V AC source that is constantly energised when dishwasher is switched on e.g. the live (1 amp fused) and neutral of the dishwasher's on/off switch.

Probe Mode

Probe Trigger Signal: Connect Red and Black cores of the multi core cable to 24 – 240V AC/DC to wash pump or dedicated detergent signal. Common can be connected with the main neutral.

Rinse Trigger Signal: Connect White and Yellow cores of the multi core cable to 24 – 240V AC/DC to rinse valve or dedicated rinse signal. Common can be connected with the main neutral.

Probeless Hood Mode

Detergent Trigger Signal: Connect Red and Black cores of the multi core cable to 24 – 240V AC/DC to wash pump or dedicated detergent signal. Common can be connected with the main neutral.

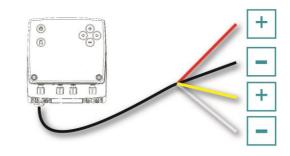
Rinse Trigger Signal: Connect White and Yellow cores of the multi core cable to 24 – 240V AC/DC to rinse valve or dedicated rinse signal. Common can be connected with the main neutral.

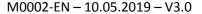
Probeless Tunnel Mode

Detergent Trigger Signal: Connect Red and Black cores of the multi core cable to 24 – 240V AC/DC to wash pump or dedicated detergent signal. Common can be connected with the main neutral.

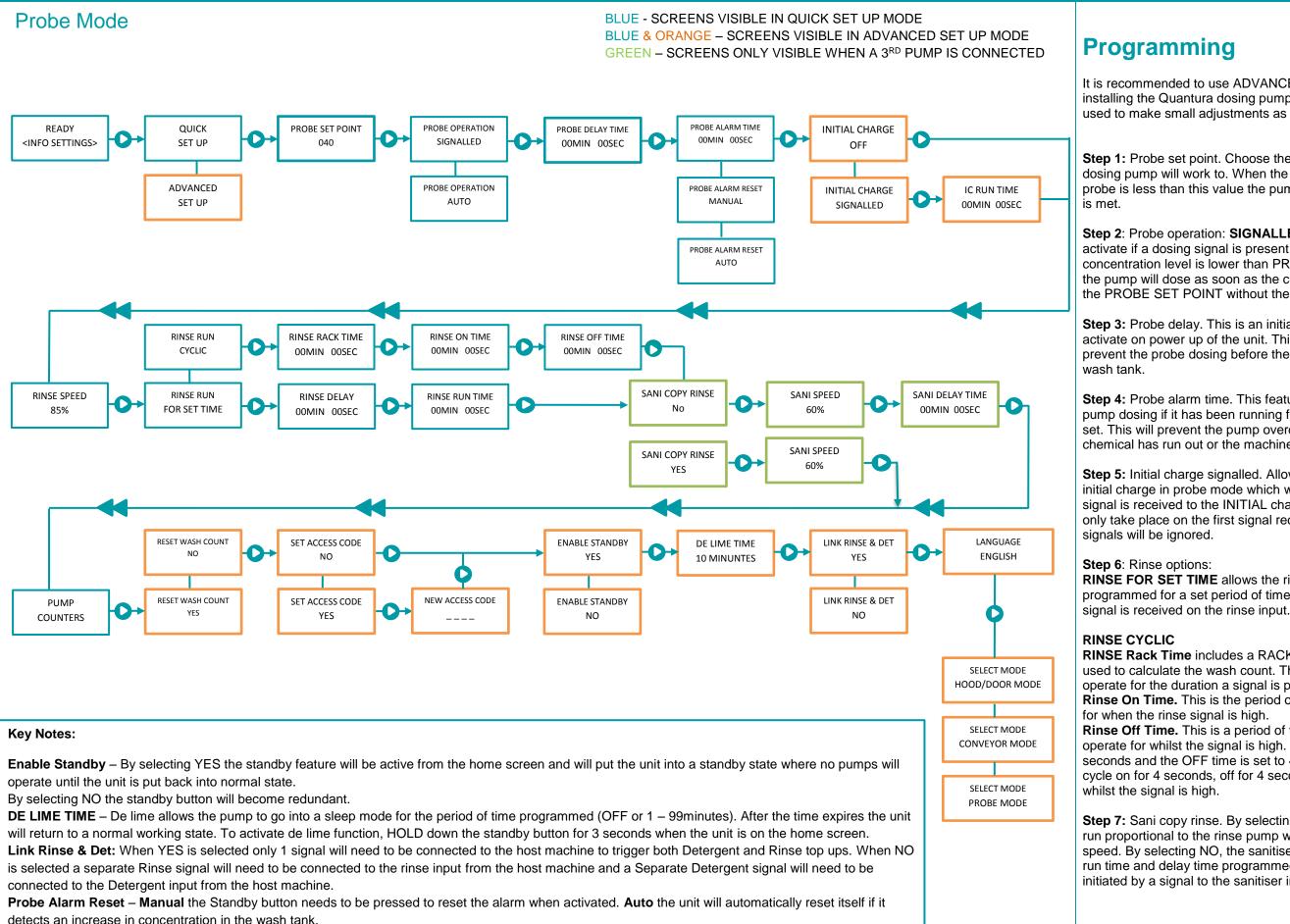
Rinse Trigger Signal: Connect White and Yellow cores of the multi core cable to 24 – 240V AC/DC to rinse valve or dedicated rinse signal. Common can be connected with the main neutral.

Refer to full manual for further information, available to download at www.brightwell.co.uk









It is recommended to use ADVANCED SET UP when first installing the Quantura dosing pump. Quick set up can be used to make small adjustments as and when necessary.

Step 1: Probe set point. Choose the set level at which the dosing pump will work to. When the value measured by the probe is less than this value the pump will dose until the level

Step 2: Probe operation: **SIGNALLED** the pump will only activate if a dosing signal is present on the DET input and the concentration level is lower than PROBE SET POINT. AUTO the pump will dose as soon as the concentration drops below the PROBE SET POINT without the need for a signal.

Step 3: Probe delay. This is an initial delay that will only activate on power up of the unit. This feature is used to prevent the probe dosing before the machine has filled the

Step 4: Probe alarm time. This feature is used to stop the pump dosing if it has been running for longer than the time set. This will prevent the pump overdosing in the case that the chemical has run out or the machines tank is not filling.

Step 5: Initial charge signalled. Allows the use of a signalled initial charge in probe mode which will take place when a signal is received to the INITIAL charge input. This event will only take place on the first signal received. Subsequent

RINSE FOR SET TIME allows the rinse pump to be programmed for a set period of time which will activate when a signal is received on the rinse input.

RINSE Rack Time includes a RACK TIME screen which is used to calculate the wash count. The rinse operation is to operate for the duration a signal is present on the rinse input. **Rinse On Time.** This is the period of time the pump operates

Rinse Off Time. This is a period of time the pump will NOT operate for whilst the signal is high. If the ON time is set to 4 seconds and the OFF time is set to 4 Seconds; The pump will cycle on for 4 seconds, off for 4 seconds, On for 4 seconds

Step 7: Sani copy rinse. By selecting Yes, the sanitiser will run proportional to the rinse pump with selectable sanitizer speed. By selecting NO, the sanitiser needs to have its own run time and delay time programmed and the pump will be initiated by a signal to the sanitiser input.



