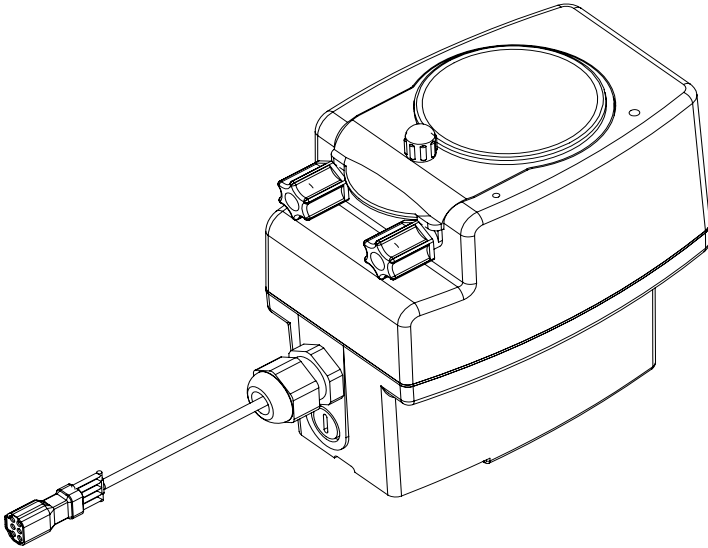


EvoWash

Retro Fit Rinse Pump



1. Specification

Specifications correct at the date of publication

NOTE

Refer to the original EvoWash instructions provided with EvoWash unit for full operating and original instructions of the unit

Description

This Rinse Pump kit is intended to be retro fitted to an existing 'EvoWash' powder / solid detergent dissolver, to add functionality of dosing rinse aid into your warewash system.

The integrated control unit allows programming to promote safe and economical use of warewash supplies by ensuring an accurate amount of chemical is automatically added to every wash.

Specification

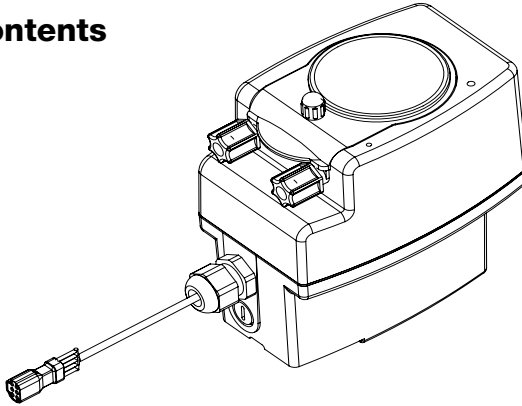
Product Dimensions (unboxed)	
Size	254mm (W) x 366mm (L) x 234mm (D)
Size - with rinse pump	303mm (W) x 366mm (L) x 234mm (D)
Weight	3.1Kg
Weight - with rinse pump	3.5Kg
Product Dimensions (boxed)	
Size	370mm (W) x 425mm (L) x 305mm (D)
Weight	4.2Kg
Weight - with rinse pump	4.6Kg
Electrical	
Input voltage / Frequency / Current	200 to 249 VAC / 50/60 Hz. / 0.025 - 0.06 A (Max.)
Power	12W (Max)
Electrical Class	Class II
Rinse Signals (voltage/frequency/current)	Universal machine interface type. 24-240VAC / ~50/60Hz / 20mA 24VDC / 20mA
Detergent Signals (voltage/frequency/current)	Universal machine interface type. 24-240VAC / ~50/60Hz / 20mA 24VDC / 20mA

Intended Use

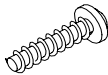
- The EvoWash is intended for use in industrial applications and is not suitable for domestic use.
- The product must only be used for washing and rinsing in dish and warewash applications. The manufacturer waives any responsibility arisen from incorrect usage or transportation.

2. Installation

Kit Contents



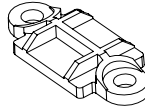
Rinse Pump Mounting Hardware



x 3

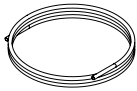


x 1



x 1

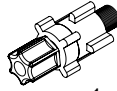
Rinse Pump Accessories



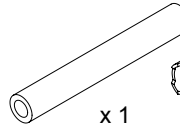
x 1



x 5



x 1



x 1



x 1



CAUTION

Before an installation takes place it is advisable to complete a site survey to ensure the EvoWash can be installed in a position that meets all the requirements below.



CAUTION

Do not install unit in an ATEX environment



WARNING

Electrical installation should be completed by a qualified electrician. All local and national electrical regulations are to be observed.

Site Survey & Installation Requirements

- Unit is to be installed by a trained technician; all local and national water regulations are to be observed.
- Unit must be installed indoors, in an area that does not suffer excess temperature changes, direct sunlight, frost or precipitation of any kind.
- The area must be free of high levels of EMC disturbance.
- Ensure the unit is mounted in an accessible location, above the height of the dishwasher detergent and rinse inlet connections.
- Installer to ensure the suitability of the wall or mounting substrate, which should be flat and perpendicular to the floor.
- Unit location should be well lit for any maintenance, and should be free of high levels of dust particulates.
- Scheduled maintenance should be carried out on the unit at least once per year.
- It is a legal requirement that all water supply hose sets must be compliant with IEC 61770.
- Ensure that the chemicals being used are compatible with the tubing supplied. If you are unsure, please contact your local distributor.

Retrofit Rinse Pump Installation

All programming and settings are controlled through the same interface as the detergent control.



WARNING

Isolate the power and water supplies before performing any maintenance on the unit.

1. Remove the 'EvoWash' from the wall, and set the product face down on a clean, stable work surface. Support the product where necessary to prevent it from moving whilst performing the changeover.
2. Unscrew the 2 x screws from the side cover. Pull the side cover away from the main housing.

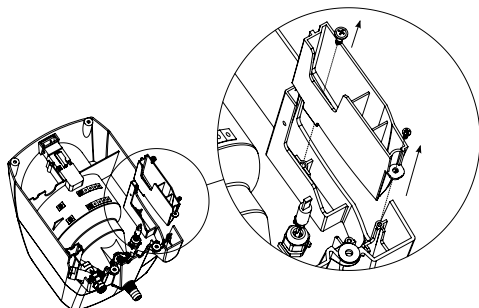


Figure 16: Remove 2 x screws on the side cover

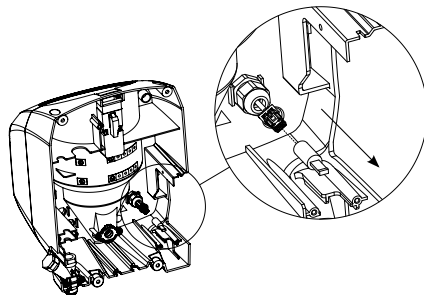


Figure 17: Remove plastic clip from the wiring

3. Remove the Rinse Pump from the packaging.
4. Remove the plastic cap from the end of the wire inside the unit.
5. Clip the plug on the rinse pump, to the plug on the unit, ensure that two parts locate together properly.

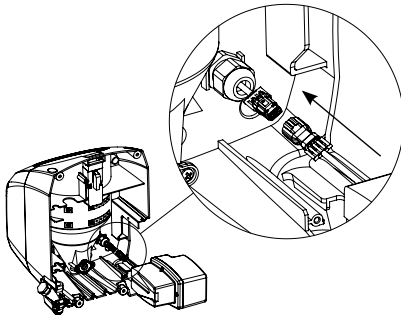


Figure 17: Clip the two plugs together

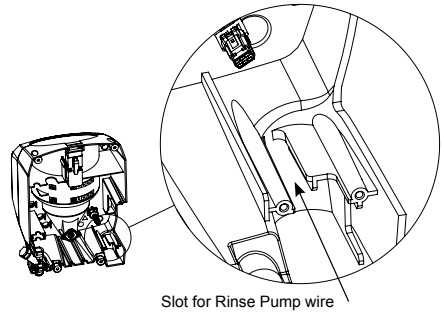


Figure 18: Fit the rinse pump into the housing, feed wire into slot

6. Push the rinse pump into the housing, feeding the cable into the slot at the back of the unit.
7. Screw the securing clip over the cable gland at the base of the pump.
8. Use the screw and washer to secure the rinse pump into the main housing at the top of the rinse pump.
9. Once fitted, secure the unit back onto the wall and install the rinse pump tubing and Rinse injection fittings as per the instructions in 'Mechanical Installation'.

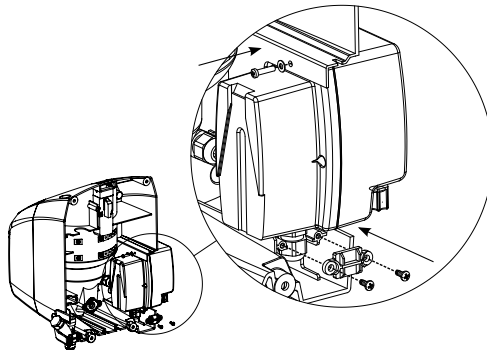
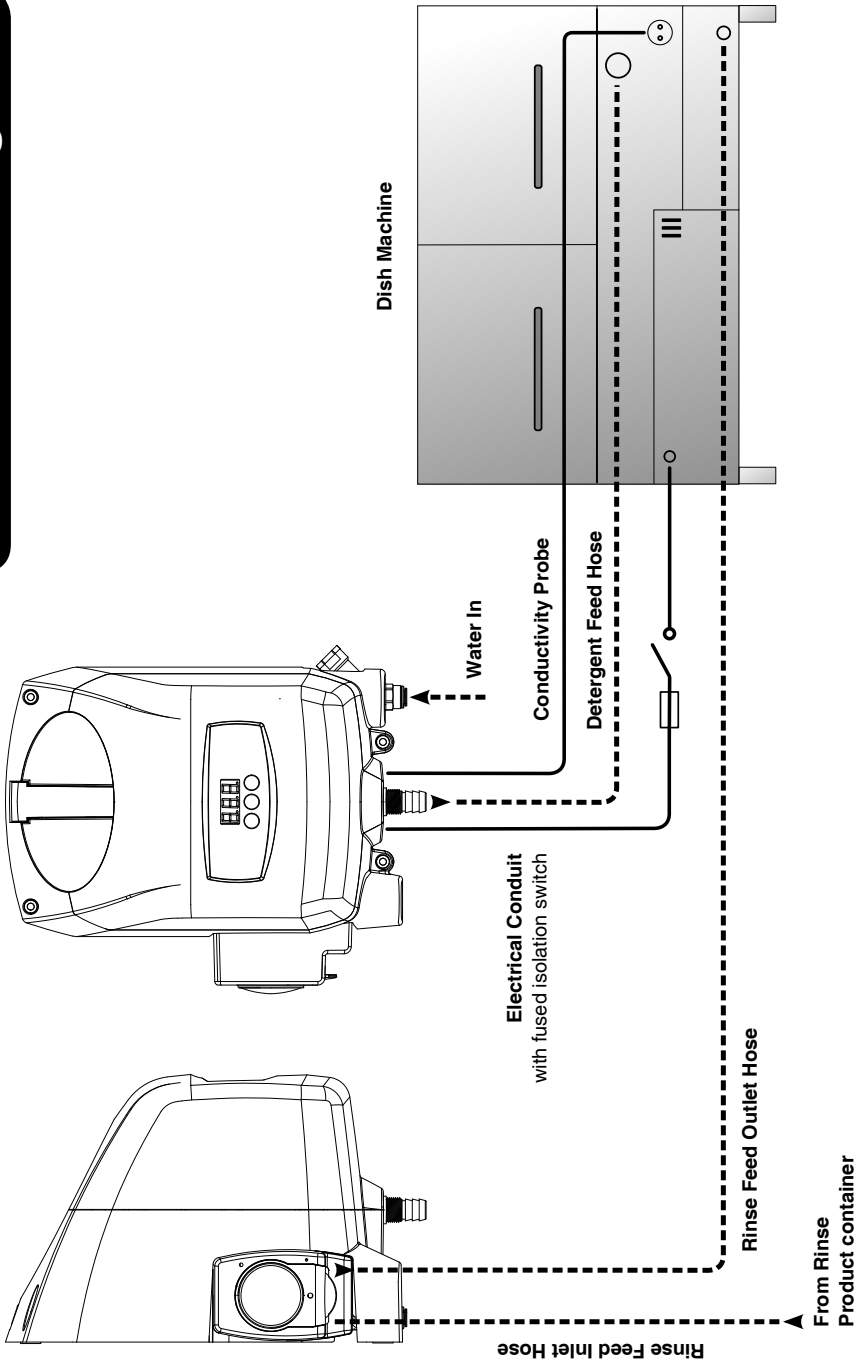


Figure 19: Screw the securing clip over the cable gland

Installation Diagram



Rinse Injection Fitting



CAUTION

Choose a location for the rinse fitting that allows the installation to comply with local and national plumbing regulations, ensuring there is no backflow of rinse chemicals into potable water supply

Choose an appropriate location for the rinse injection fitting. On continuous rack, flight, or conveyor machines, be sure that this location is downstream from any rinse makeup water.

If the dish machine rinse plumbing is thin wall pipe, use a saddle clamp with a 1/8" NPT threaded hole.

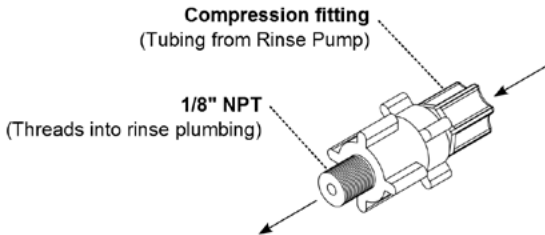


Figure 1: Rinse Injection Fitting

1. Drill a 5.5mm (7/32") hole in the rinse plumbing injection location.
2. Tap the hole using a 1/8"NPT tap, ensuring that any swarf is cleared away.
3. Install the rinse injection fitting. Use thread sealant to ensure a leak free assembly.

Rinse Aid Tube Connection (product option)

NOTE Ensure there are no kinks or sharp bends in the tubing between the unit and the rinse injection fitting, to ensure free flow of rinse chemical into the water line.

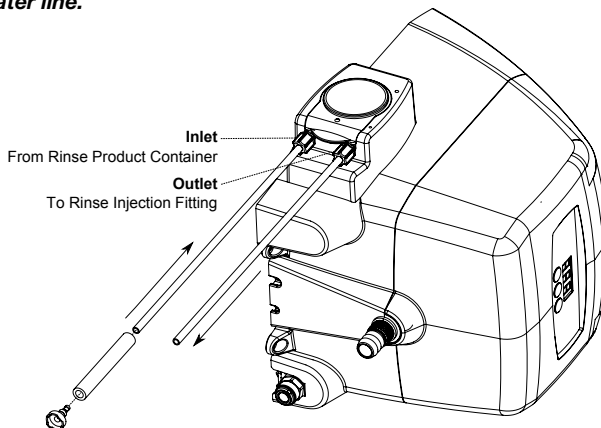


Figure 9: Rinse aid hose connection

Cable ties are provided in the fittings kit so that tubing can be tied together / the wall to create a neat and safe installation.

Inlet Tubing

1. Using the ¼" tubing provided, cut the tube to the correct length (keeping enough for the outlet tubing) and install the strainer & weight onto the end of the tube that will be placed into the rinse chemical container.
2. Install the strainer and weight into the rinse chemical container, ensuring that any entry hole produced in the container is suitable as not to allow particulates or any contamination to enter the container.
3. Connect the inlet tubing to the inlet on the rinse pump (left hand fitting). Loosen the compression fitting by 1 turn, then push the tube into the fitting and tighten.

Outlet Tubing

1. Install one end into the outlet of the rinse pump (right hand fitting). Loosen the compression fitting by 1 turn, then push the tube into the fitting and tighten.
2. Ensuring the tubing is the correct length, connect the other end of the tubing to the rinse injection fitting into the dish machine. Loosen the compression fitting by 1 turn, then push the tube into the fitting and tighten.

Electrical Installation

Rinse Signal Wiring

- Detergent signal input is optically isolated and draws no more than 20mA.
- It is a universal voltage input that accepts voltage between 24-240VAC nominal ($\pm 10\%$ fluctuation), or 24VDC nominal ($\pm 20\%$ fluctuation).
- Typical wiring locations are dispenser rinse power source or the rinse solenoid valve circuit in the dish machine control panel. This power source is live whenever the dishwasher is rinsing.
- Connect violet (DC+) and white/violet (DC-) coloured wires to rinse power source (or constant power for pressure switch installations).

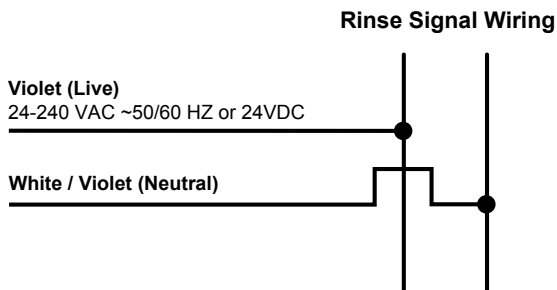


Figure 14: Rinse signal wiring diagram

Electrical Connections

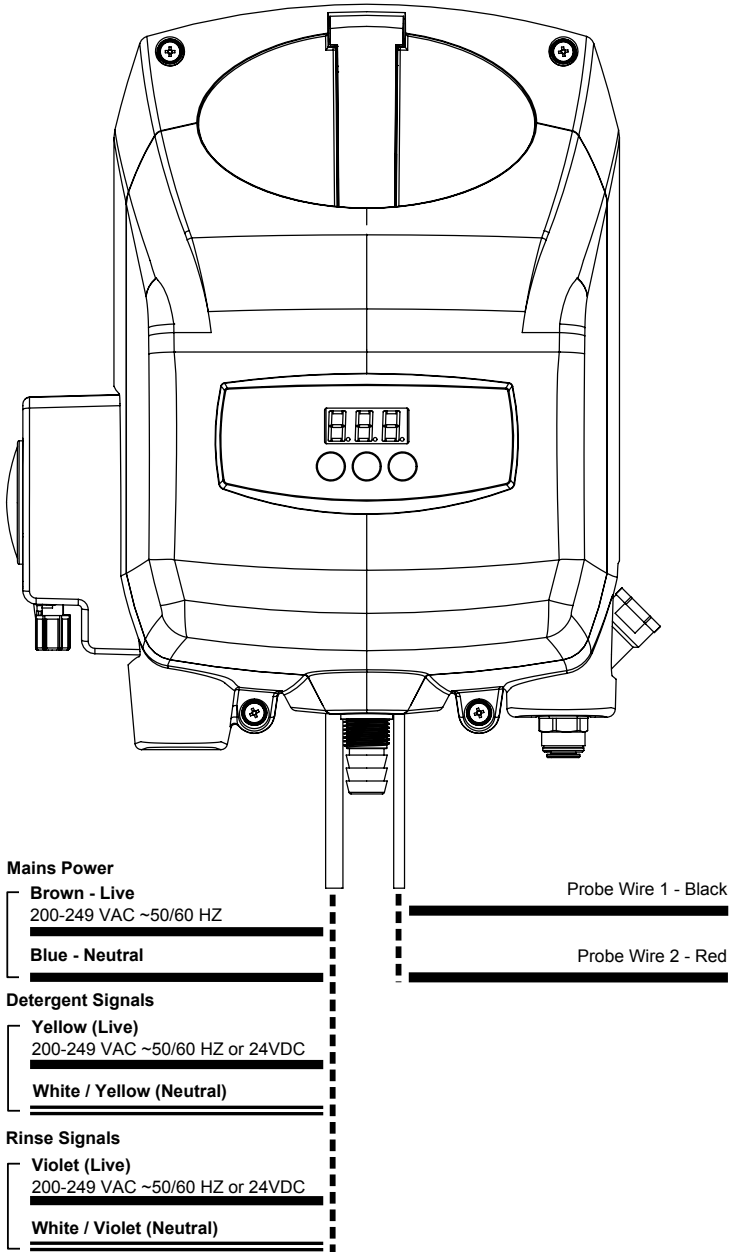


Figure 3: Wiring Schematic from product

Safety



**DANGER -
ELECTRICAL
HAZARD**



**WEAR
PROTECTIVE
CLOTHING**



**WEAR
PROTECTIVE
GLOVES**



**WEAR
SAFETY
GLASSES**

- Please use this equipment carefully and observe all notes, warnings and cautions.
- Any electrical installation / maintenance must be performed by a qualified electrician.
- Wear appropriate PPE (Personal Protective Equipment) when handling chemicals or other materials or when working in the vicinity of all chemicals, filling or emptying equipment.
- Always observe safety and handling instructions of the chemical manufacturers.
- Always direct chemical discharge away from you or other persons or into approved containers.
- Always dispense cleaners and chemicals in accordance with manufacturer's instructions.
- Isolate the mains supply before carrying out any maintenance on the unit.
- Do not operate the unit without Pump Cover and Captive Screw secured in place.
- This product shall not be used in ATEX environment.
- Ensure suitability of connection between chemical supply tube and chemical container to minimise harmful gases escaping.
- Ensure that the chemical being used is compatible with the chemical supply tube. If you are unsure, please contact your local distributor.

WEEE- Waste Electrical and Electronic Equipment

WEEE Regulations apply to companies who Manufacture & Distribute electrical or electronic equipment

WEEE Classification – 10. Automatic dispensers.

The WEEE Regulations apply to importers, producers, retailers and users of EEE, and to businesses that treat or recover WEEE. The EvoClean unit is a product placed onto market POST 13.08.05 , therefore called 'future WEEE'.

As a producer Hydro Systems Europe have the option to take responsibility for the EEE placed on the market. If Hydro Systems Europe chooses to receive WEEE they must make sure that it is disposed of in an environmentally sound way, including the treatment, reuse, recovery and recycling of the components where appropriate.

Responsibility as a producer of EEE

Hydro Systems Europe as a producer of EEE are registered with a producer compliance scheme who register them with the relevant environmental regulator. Through the regulator they become part of an approved producer compliance scheme (PCS). The PCS supply a unique and permanent producer registration number.

If disposal is outsourced it (the product) must be taken to an appropriately licensed site (approved authorised treatment facility - AATF) where it can be treated safely.

The environmental impacts of the substances in EEE and waste electrical and electronic equipment (WEEE)

The main environmental concerns in the EEE sector stem from soil and water contamination, resource depletion, energy use and waste.

At the production stage, obtaining raw material for EEE production consumes a large amount of energy, especially the process of extracting resources, which can also lead to degradation of the surrounding environment. For instance, when raw material is shipped to a plant, it goes through a complex, high energy-consuming process as it is converted into a finished product. Moreover, as demand for fuel and raw materials increases with the increase in exports, the environmental impact of these factors is also likely to increase.

The reasons for separating WEEE from other waste

Failing to separate waste properly can be very expensive as the majority of discarded products are shredded into small pieces of material and re-sold as raw material – much of which ends up in the Far East and goes back into manufacturing. If the hazardous components were not separated first the entire batch could be contaminated. This significantly increases the risk of environmental damage and could lead to legal action under hazardous waste regulations.

The meaning of the crossed out wheeled bin symbol

The crossed out wheeled bin symbol is not intended to indicate to you that WEEE is banned from being disposed of as general waste.

Moreover, the intention behind the symbol is that, when coupled with information supplied by distributors as to the availability of recycling facilities, you will be reminded that these facilities exist.

How they can safely dispose of WEEE for proper treatment

When the product is at its end of life, either contact the Local Authority in charge of electrical disposal, or contact Hydro Systems Europe who will either take the item back from yourself or supply you with relevant information for a local WEEE treatment facility. If asked, Hydro Systems Europe must provide yourself business with:

- Contact information for the EEE producer within Hydro Systems Europe. The producer's compliance scheme is responsible for the end-of-life handling of EEE.
- Records that will help producers to supply their producer compliance scheme with accurate information, for example numbers of sales of EEE to non-household users.

As a distributor Hydro Systems Europe have no legal obligation to take back WEEE from business users



Hydro Systems Europe Ltd.

Unit 3 The Sterling Centre,
Eastern Road,
Bracknell,
Berkshire, RG12 2PW

Phone +44 (0)1344 488880

Fax +44 (0)1344 488879

Web hydrosystemeurope.com