



# Evolution STARCH OFF ULTRA

## Spray Bar Installation and Component Guide

**NEW**  
PATENTED TECHNOLOGY

A LOT MORE  
BOARD

STRONGER  
BOARD

FLATTER  
BOARD



EVOLUTION STARCH OFF ULTRA

YOUR CORRUGATORS ARE ALWAYS CLEAN. A COMPLETE INTERNAL AND EXTERNAL SOLUTION FOR YOUR PLANT

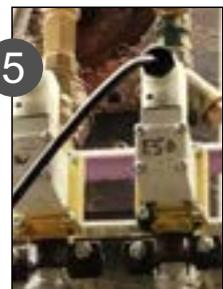
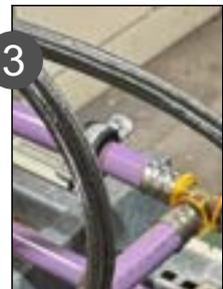
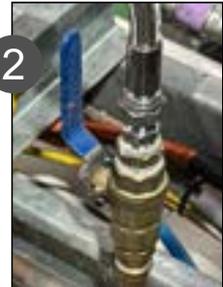
'Cleaning in Place' Enzyme based detergent series products



# Evolution STARCH OFF **ULTRA**

## System Installation - Component Guide

- 1 3/4in Pex or copper pipe through out
- 2 Isolation Valve (Gate valve)
- 3 Flexible piping
- 4 Y Filter Strainer
- 5 Solenoid



Industrial Heat Exchange Unit





# Evolution STARCH OFF **ULTRA**

- 6 Manifold
- 7 PLC Spray Bar Start/Stop control panel
- 8 Air supply line with gate valve and control solenoid
- 9 Flexible piping to spray bar
- 10 Spray Bar



On completion of the installation, SOP / SWP will be provided, onsite training to the site designated employees valid for 1 day, during all installations we asked for maintenance personal to be available for assistance and training. Upon signed handover we will request operators to sign training documentation.

All parts come with a 12-month warranty, exclusion for products damaged due to customer misuse, negligence, failure to follow basic instructions.

## Fully automatic cleaning of the applicator rolls.

Using mains pressure (recommendation flow 40 l/min / 10 gal/min / Pressure 500 Kpa – 72.6 PSI ) the spray bars clean the starch cells. The delivery of the heated ESOU is via a closed loop system which is heated to 40 to 50°C / 104 to 122°F via a designated a heat exchange.

A PLC program is used to control the delivery of the ESOU via a manifolds system through a spray bar, multiple times concluding with a final water rinse and air dry.

The safe delivery of the product is controlled by the automated system with a simple push of a button reducing the need for repetitive manual intervention.

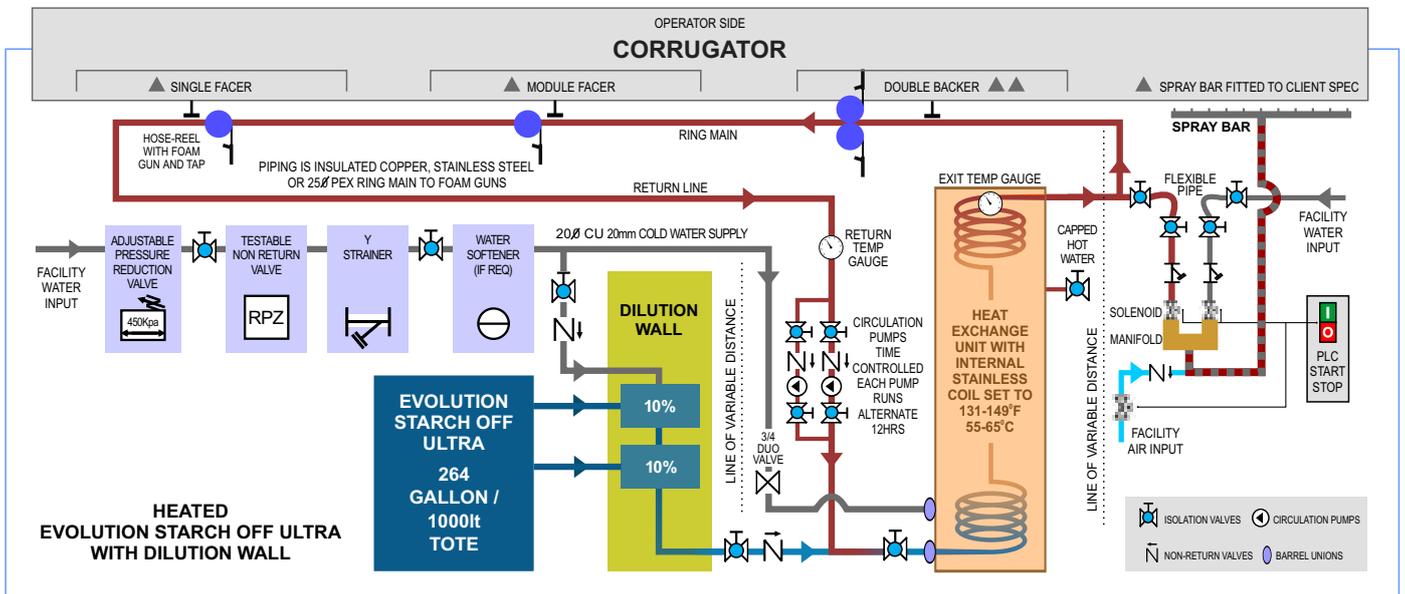
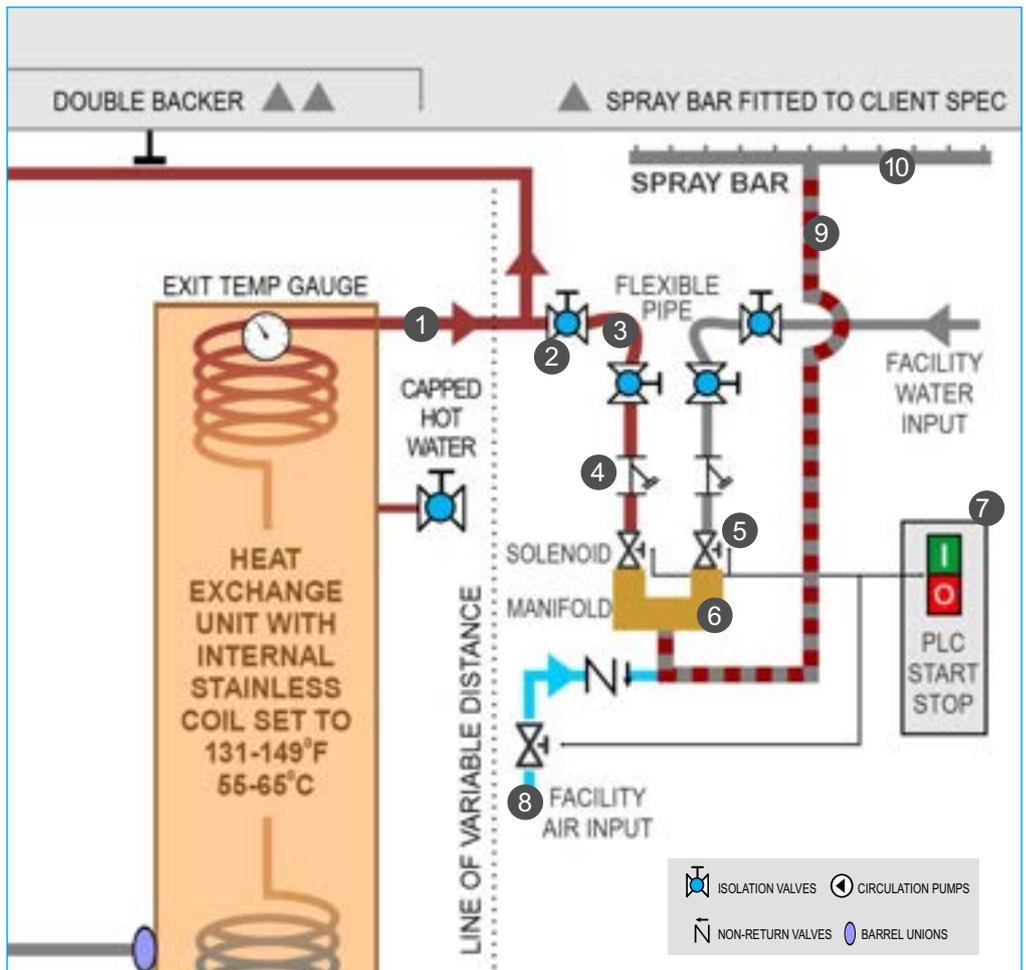
Ask for our presentation or go to [ecochem.com.au](http://ecochem.com.au) for more information.



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## Technical Installation Diagram

Enlarged section of overall diagram below, to show the Spray Bar detail.





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## Batch Controller Instructions for Starch tanks and feed line cleaning system

1. Calculate volume of product required in litres

10% of tank water volume is the amount of solution required.

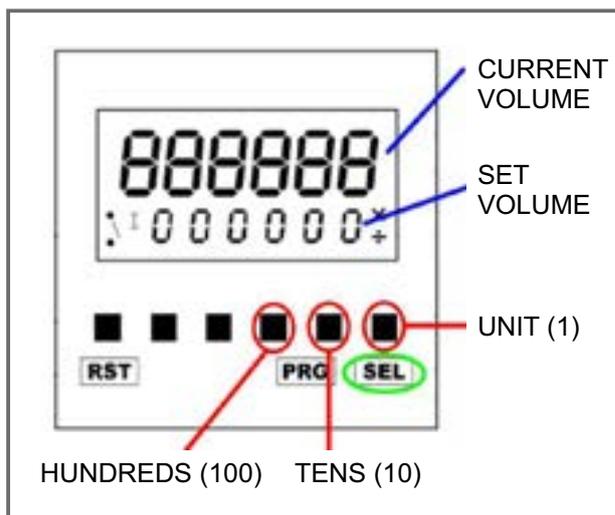
Thus, divide the volume of your tank by 10.

Example

If water tank volume is 1000 litre

Then divide 1000 by 10 = 100

= (10%)



2. Enter amount from step 1.

2.1. Press “SEL” button (Circled in green).

Use this button to change the amount of ESO required. Once initial set up is done this does not need to be changed.

2.2. Use buttons circled in red for units, tens and hundreds.

2.3. Press “SEL” button when done.

3. Press “START” button on front of case

4. Pump will start up.

5. Once volume is reached the pump will stop.

In the case of an incorrect entry, reset the system by turning the power off for 10 sec and turn back on. Note: RST and PRG buttons are not used in this system.

Use emergency stop button if necessary. System will remember the last setting and metered amount for up to 5 min.

**Check numbers entered before starting to ensure correct amount has been set.**

**Evolution Starch Off Ultra will deliver MORE BOARD, STRONGER BOARD, FLATTER BOARD**

**EVOLUTION STARCH OFF ULTRA is optimised, unique, simple, safe and effective**

**Contact us now for more information and a convincing on-site demonstration**



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