



**SUNCOMBE**  
CIP, BIOWASTE & PROCESS SOLUTIONS

***PureCIP™ 39172***  
***Cleaning In Place System***



Suncombe Ltd, Jade House, Lockfield Avenue, Brimsdown, Enfield, Middlesex, EN37JY, United Kingdom

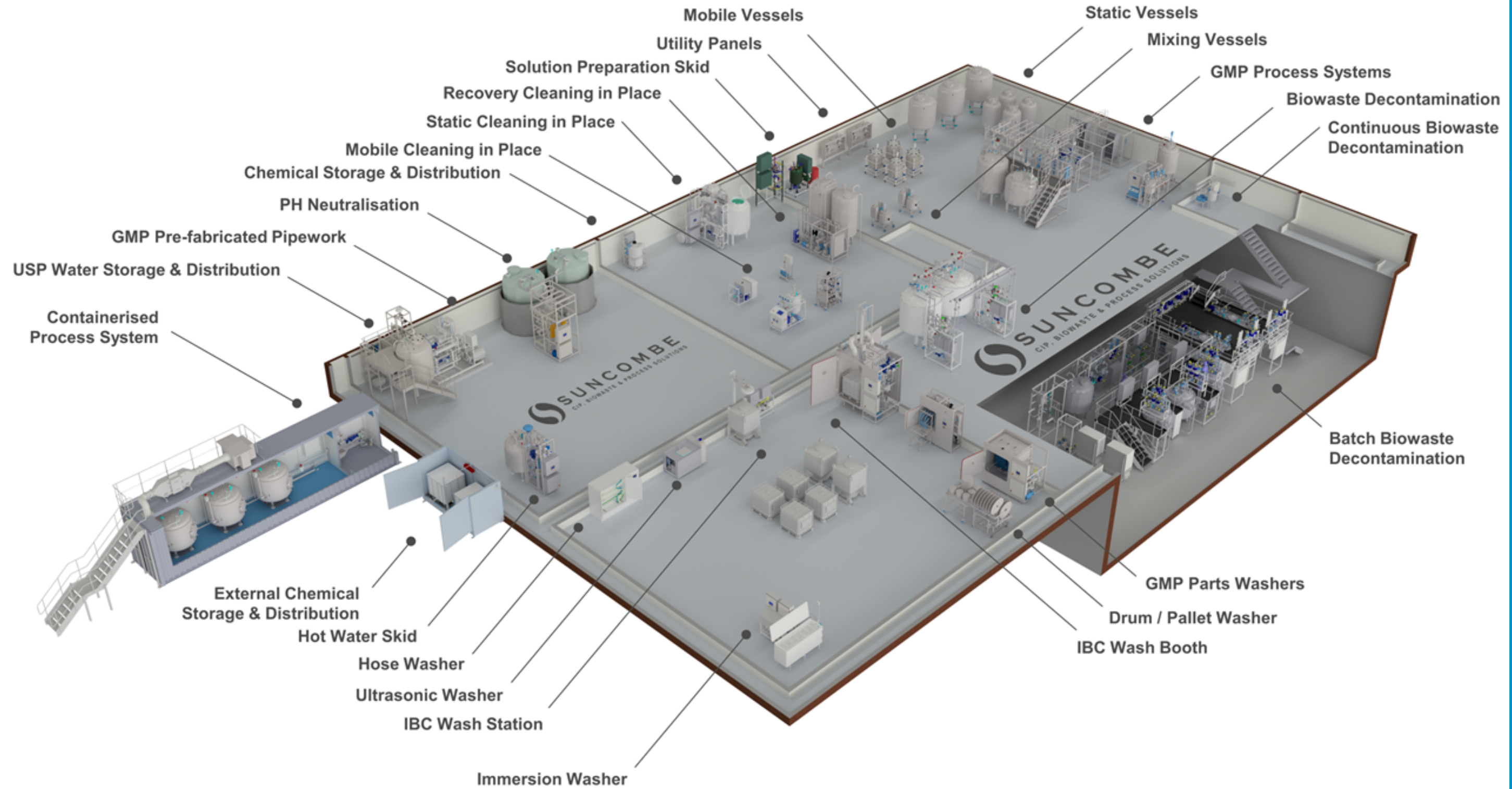
**T** +44(0)20-8443-3454 **F** +44(0)20-8443-3969 **E** info@suncombe.com **W** www.suncombe.com

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# PureCIP™ 39172 Cleaning In Place System

## PureCIP™ Cleaning In Place Systems Introduction

Suncombe PureCIP™ Cleaning In Place Systems have been developed over the last 30 years for providing a robust, reliable means of supplying repeatable, validatable, controllable CIP cleaning. Every unit is specifically designed for its particular application and is developed by Suncombe CIP engineers together with the client personnel to provide the optimum cleaning system and a simple validation trail. The systems are based on standard modules with individual units custom designed and built - in-house - for your specific application. Automatically operated, the systems are used for cleaning tanks, Vessels, Vats, Fermenters, Mixers, Processors, Pipework, Valves, Isolators, Glove Boxes, Mills, Coaters, Filters, Pumps, Dryers, Tumblers, Fillers and many other applications. The standard system is designed for safe area and non-flammable fluids; ATEX versions are available if required.

## Standards

Built to hygienic and sanitary standards and available to comply with ASME BPE, GAMP and 21CFR11, the PureCIP™ Cleaning In Place Systems are supplied worldwide to the Biotech, Pharmaceutical, Medical, Healthcare, Personal Care and other critical processing industries.

## Automation System\*

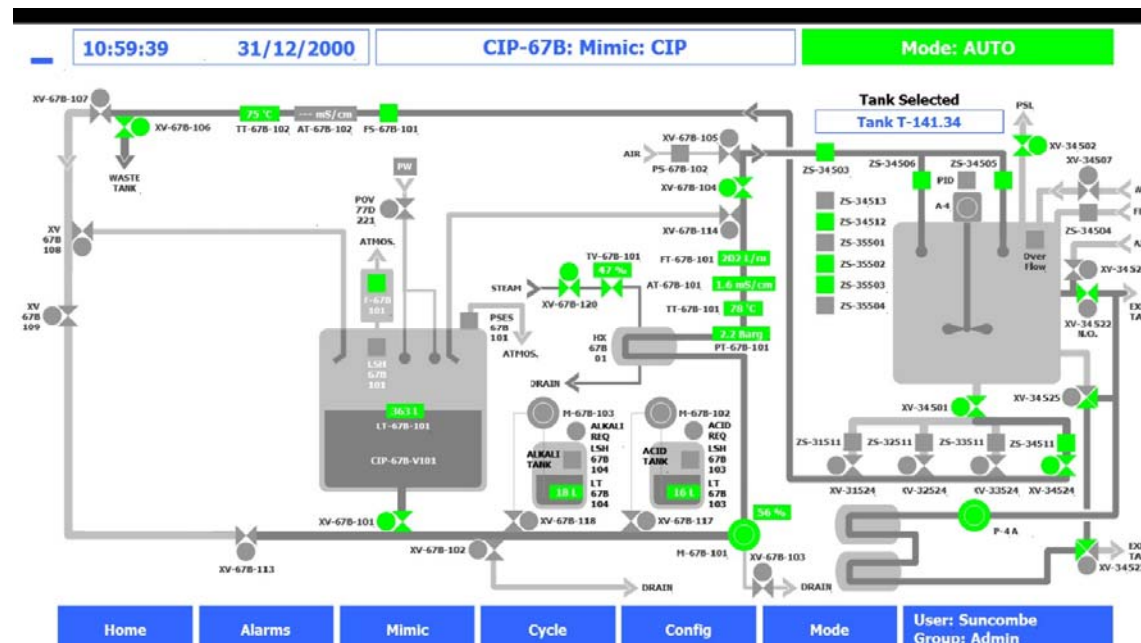
The Integrated automation is designed to be operator friendly and simple to use whilst providing flexibility and optimisation. Reliable and robust, they have been developed over the last 20 years, they encompass all elements required to provide a controllable, repeatable automatic system. A range of automation levels are available, starting Versatile automation system allows you to build your own recipes from pre-commissioned steps in any order. The variables in each step can be individually configured. The system can either be run as a single pass, so that the wash liquid goes directly to drain after CIP or can be used in recirculation mode, so that the CIP recirculates the liquid for a pre-set time.

\*See Automation Datasheet for full details



Typical PureCIP™ 39172 Static Version

Typical Mimic Diagram



## Cleaning Philosophy

Total loss cleaning philosophy is when the CIP fluids are used for the duration of a single clean and then discarded; this is the preferred method for critical applications. The PureCIP™s can recirculate the CIP solutions; there is an alternate method, which uses the CIP solutions as a single use and does not recirculate. This type of system is sometimes used where it is undesirable to allow the possibility of recontamination of the vessel or pipework by the recirculated product, or where installing return pipework to the CIP system is impractical. PureCIP™ systems are designed to operate either method.



Special PureCIP™ 39172 Mobile Version

**Typical Manufacturing Standards\***

- Sanitary Construction, fully drainable, crevice free.
- 316 stainless steel contact parts, 304 non-contact parts, T.I.G. Welding

\*See Equipment Standards Datasheet for full details

**Typical Equipment\***

- 316 Stainless Steel pipework
- Sanitary Centrifugal Pump
- Sanitary Valves, manual and air operated
- Steam heating
- Calibrated Instruments

\*See Equipment Standards Datasheet for full details

**LEAN Technology**

Adopting LEAN principles, the washers were developed to minimise utilities and wash times, whilst ensuring the safety of the operators and the efficiency of the processing. Our automated systems are configured to incorporate LEAN principles including Overall Equipment Effectiveness, Energy Lean and minimise downtime maintenance.

**Testing**

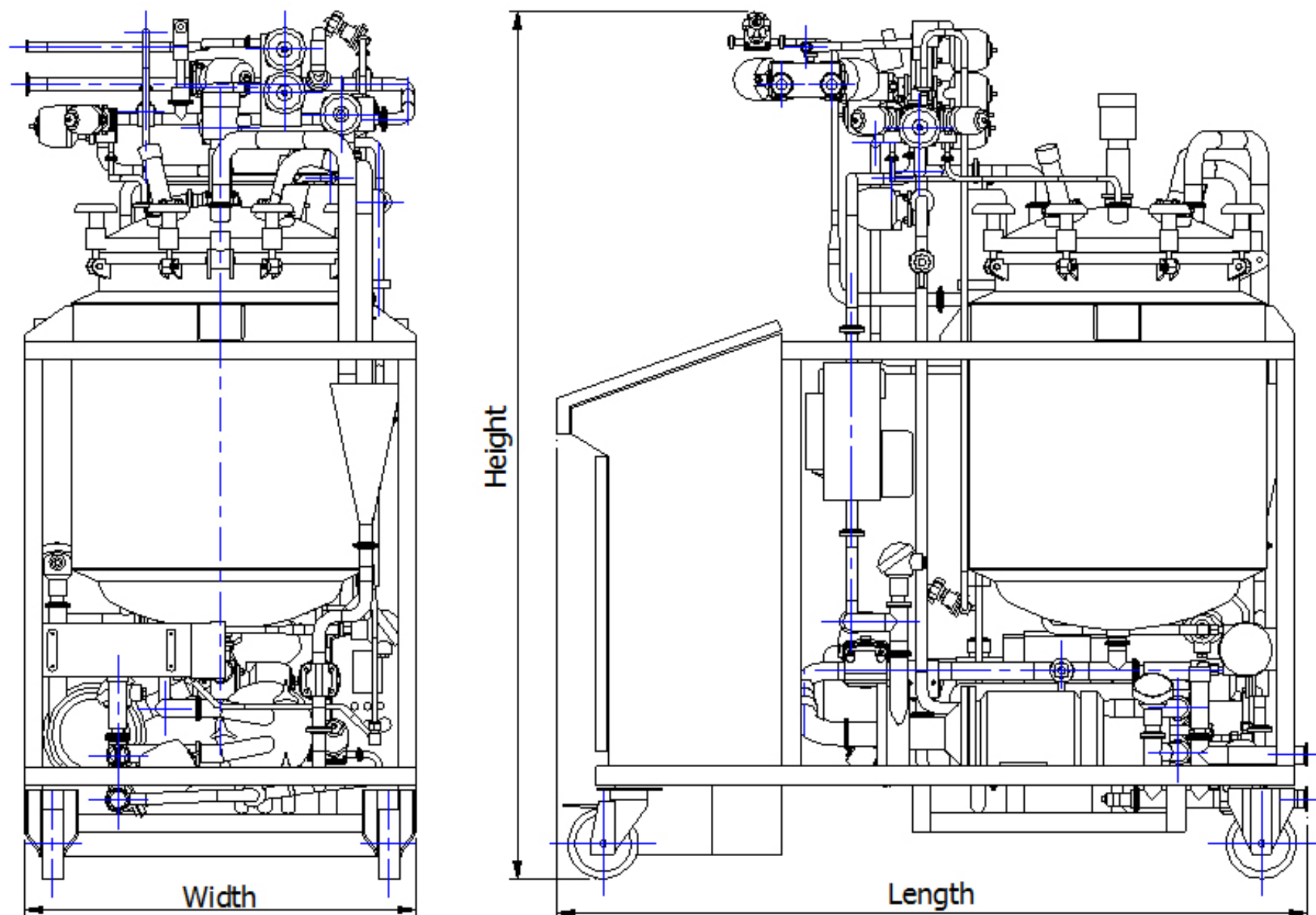
All functions of the equipment would be fully wet and dry tested and test results would be documented in the 'Pre-Factory Acceptance Test' (FAT) protocol. Following successful completion of this protocol, the client will be invited to the FAT test, where all tests can be repeated or the pre-FAT tests results can be used.

**Validation/ Documentation**

The lifecycle approach is adopted (DQ, FDS, HDS, SDS, FAT, SAT, IQ & OQ) with validation being key to every stage of the development process, including Factory Acceptance Testing (FAT), SAT and

<b>Typical Utilities</b>	
Water	60 litres/min @ 1 bar
USP Water (optional)	60 litres/min @ 1 bar
Air	Minimal use @ 7bar
Electricity	15 kW 400Vac 3ph+n 50hz
Steam	500 kg/hr @ 3 bar
Drain	400 litres/min @ 1 bar

**PureCIP™ 39172 Cleaning In Place System Layout**



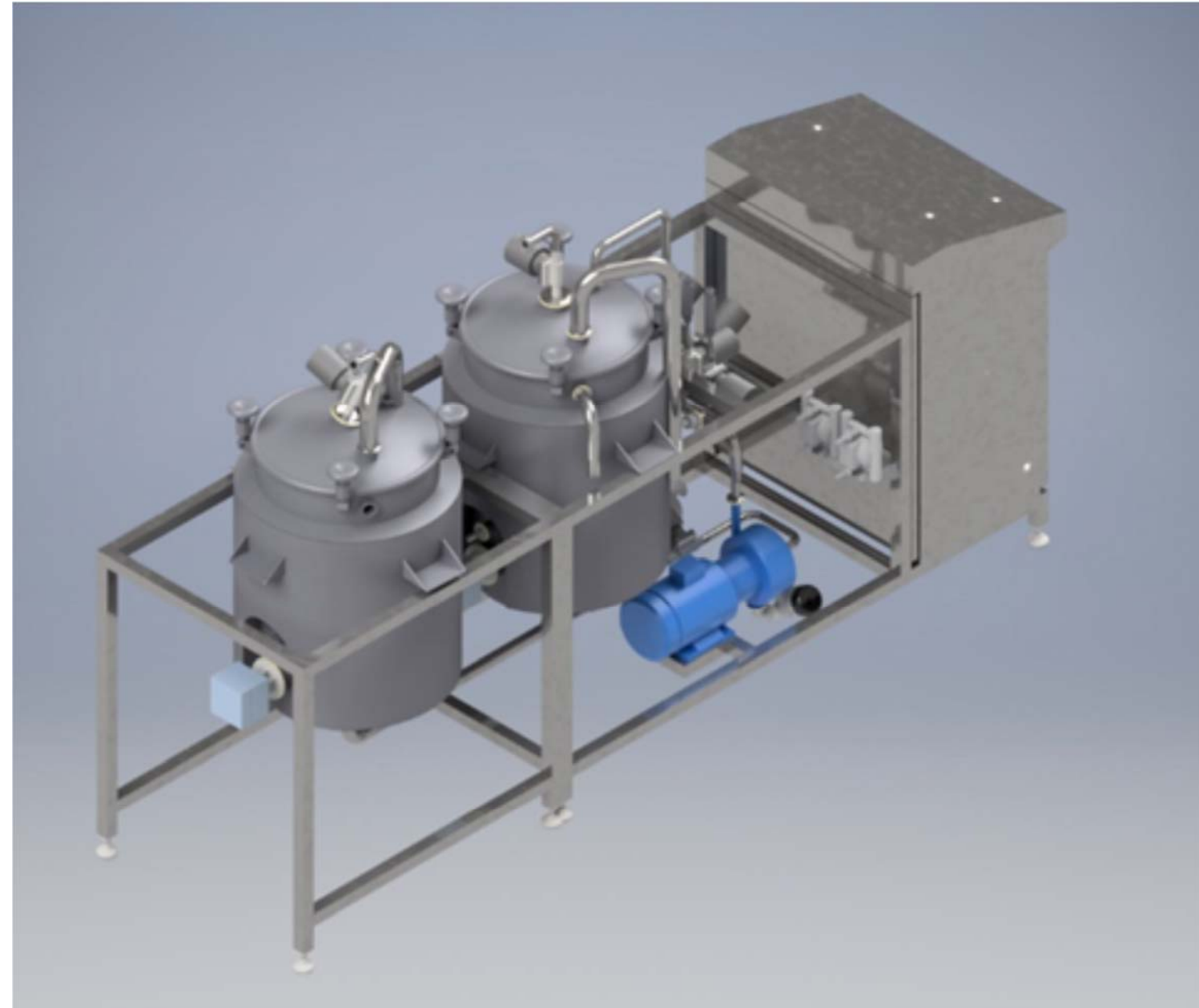
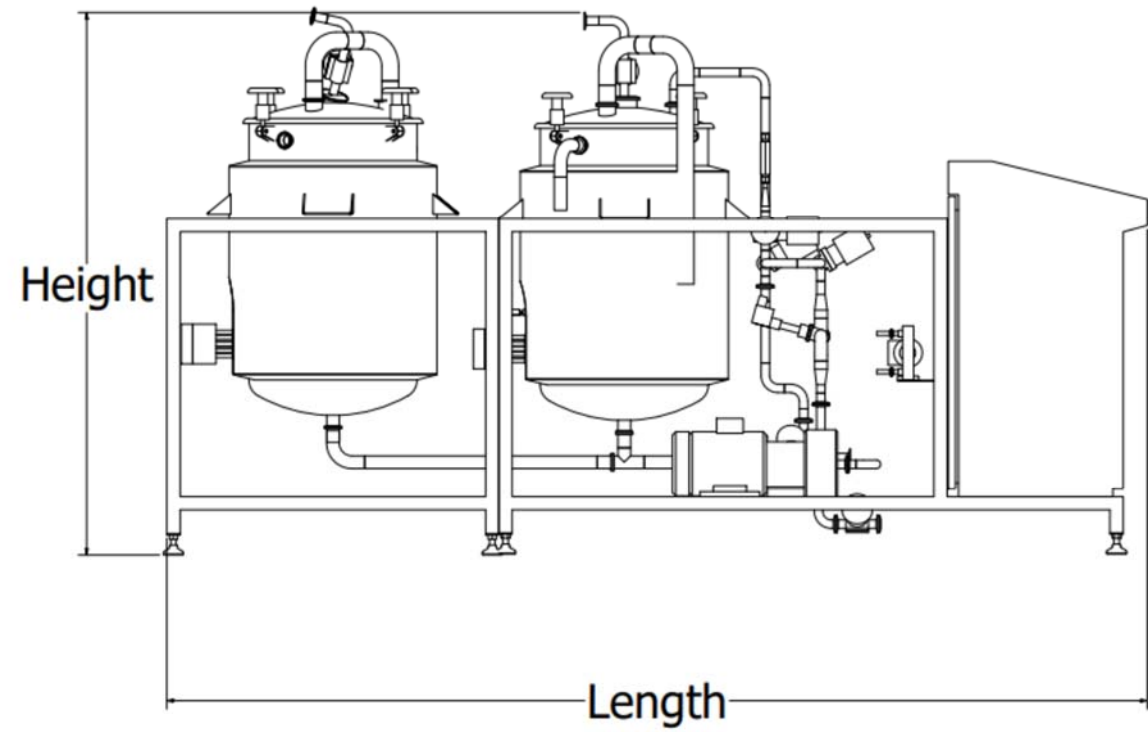
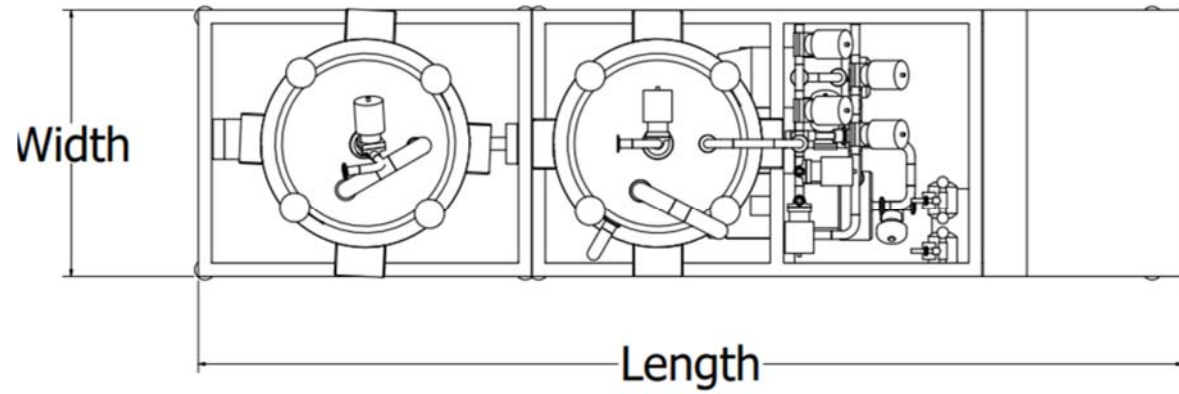
Part #	Dimensions				
	Vessel Capacity litres	Flowrate litres per minute	Length mm	Width mm	Height mm
PureCIP™ 39172—150	150	0—60	1,600	840	1,850
PureCIP™ 39172—300	300	0—80	2,000	1,000	2,000

<b>Common Options</b>	
SIP/SOP Modules	Conductivity Sensors
Remote Control Panel	Validation Reports
Mobile or Static	21CFR11 Compliance
316 Stainless Steel Framework	access platform or step to provide access to vessel top
Drain Cooler	Electrical Heating
Sampling Points	
Ribbon Printer	

<b>Typical Cycle</b>	
Pre-Rinse	Deliver water as a single pass rinse
Chemical Rinse	Deliver chemical — recirculate
Inter-rinse Rinse	Deliver water as a single pass rinse or recirculate
Final Rinse 1	Deliver water as a single pass rinse
Final Rinse 2	Deliver final quality water as a single pass rinse
Air purge	Removes water from pipework
Gravity Drain	System Drain

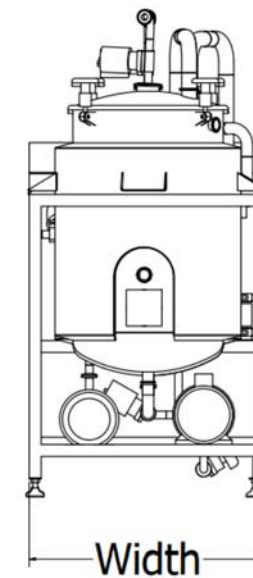
PureCIP™ 39172 Cleaning In Place System Layouts with Multiple CIP Vessels

2 Tank version



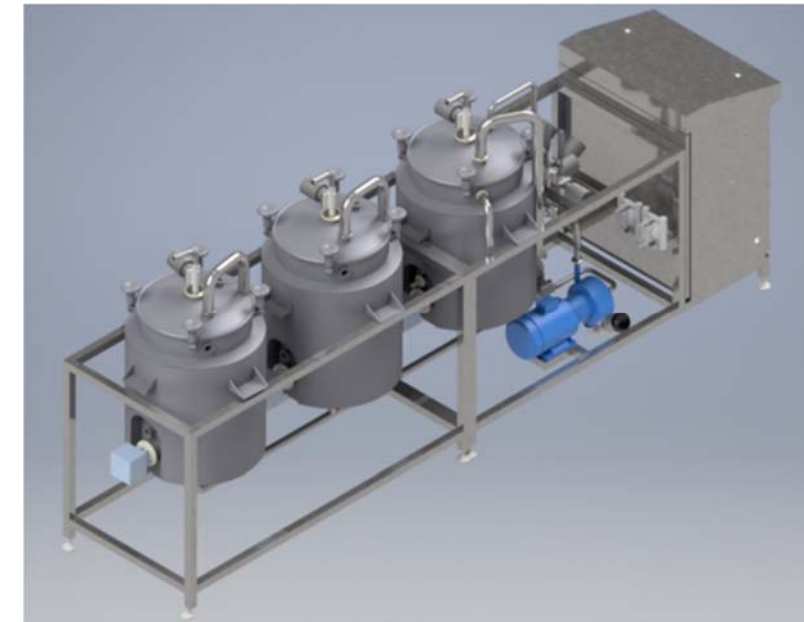
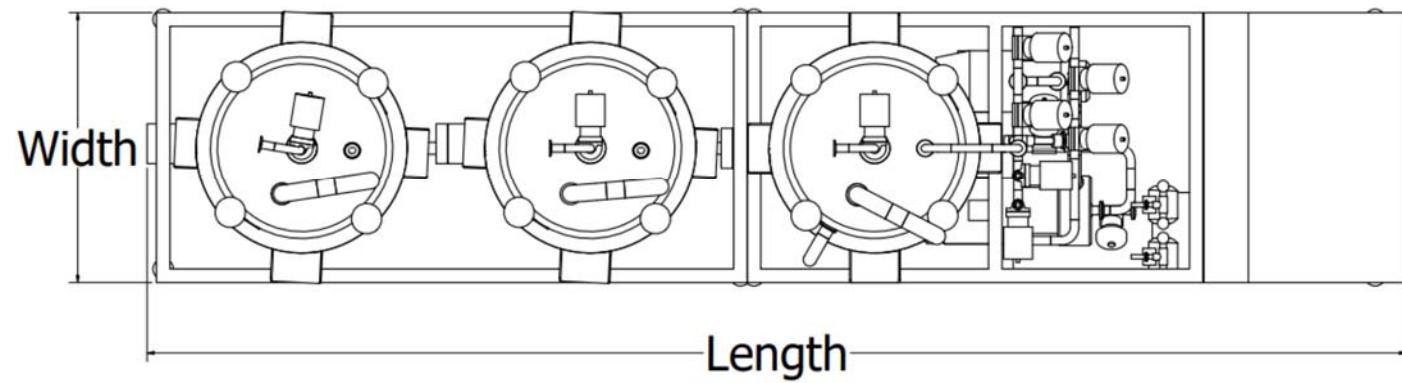
Part #	Dimensions				
	Vessel Capacity litres	Flowrate litres per minute	Length mm	Width mm	Height mm
<b>2 Tank Version</b>					
PureCIP™ 39172—150	150	0—60	2,200	840	1,850
PureCIP™ 39172—300	300	0—80	2,600	1,000	2,000

End View

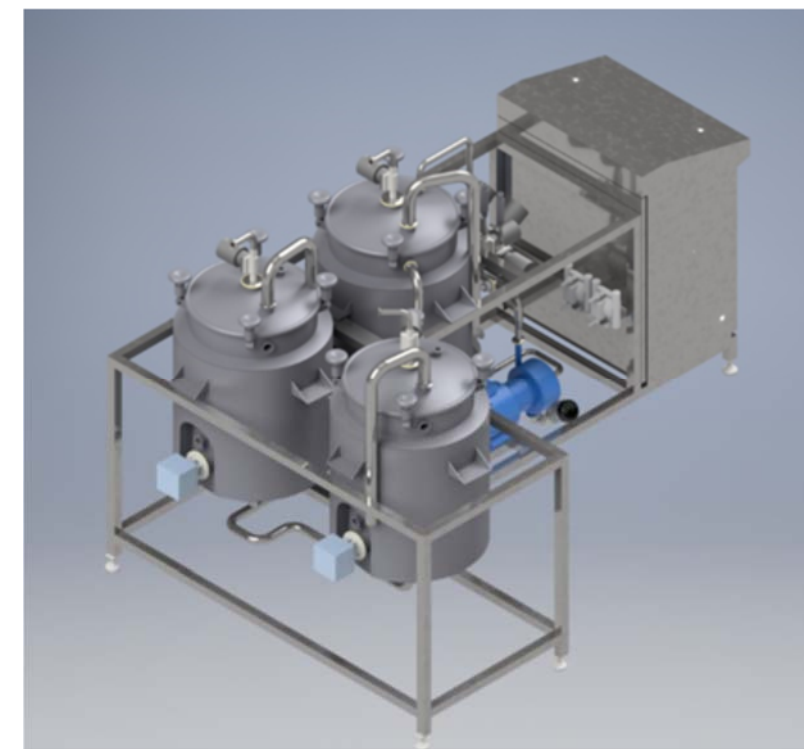
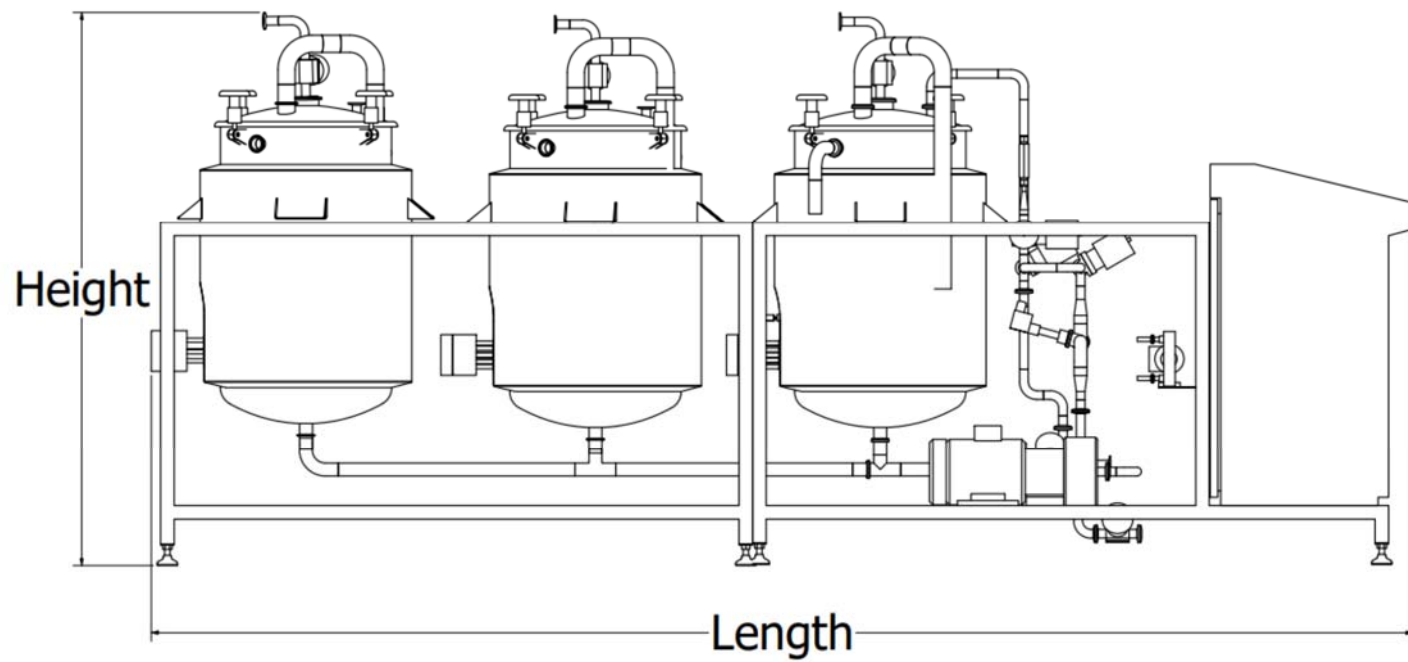


PureCIP™ 39172 Cleaning In Place System Layouts with Multiple CIP Vessels

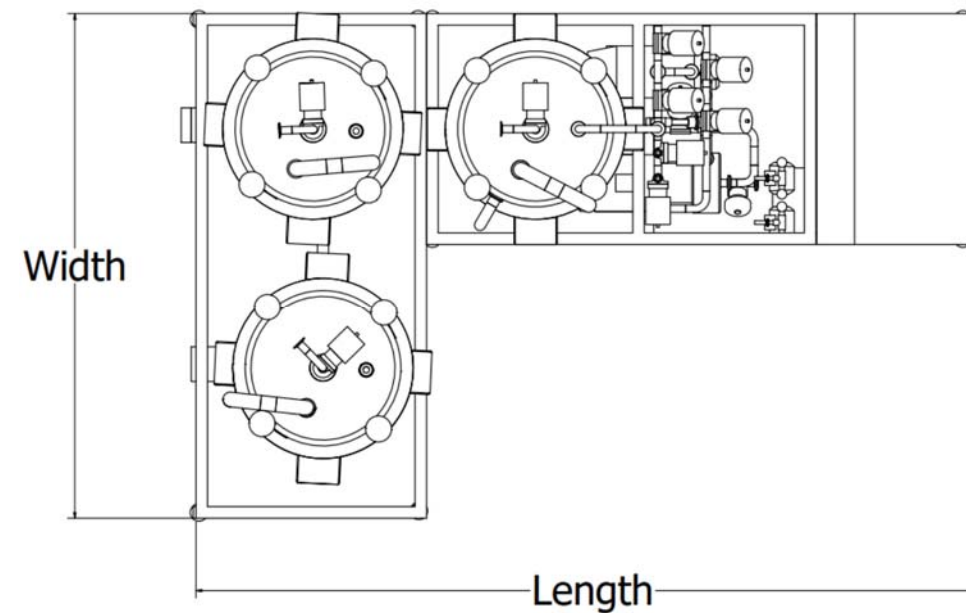
3 Tank Straight Version



3 Tank Angled Version



Part #	Dimensions				
	Vessel Capacity litres	Flowrate litres per minute	Length mm	Width mm	Height mm
<b>3 Tank Straight Version</b>					
PureCIP™ 39172—150	150	0—60	2,700	840	1,850
PureCIP™ 39172—300	300	0—80	3,100	1,000	2,000
<b>3 Tank Angled Version</b>					
PureCIP™ 39172—150	150	0—60	2,200	1,340	1,850
PureCIP™ 39172—300	300	0—80	2,600	1,500	2,000



End View

