



SUNCOMBE

CIP, BIOWASTE & PROCESS SOLUTIONS

CIPWasher™



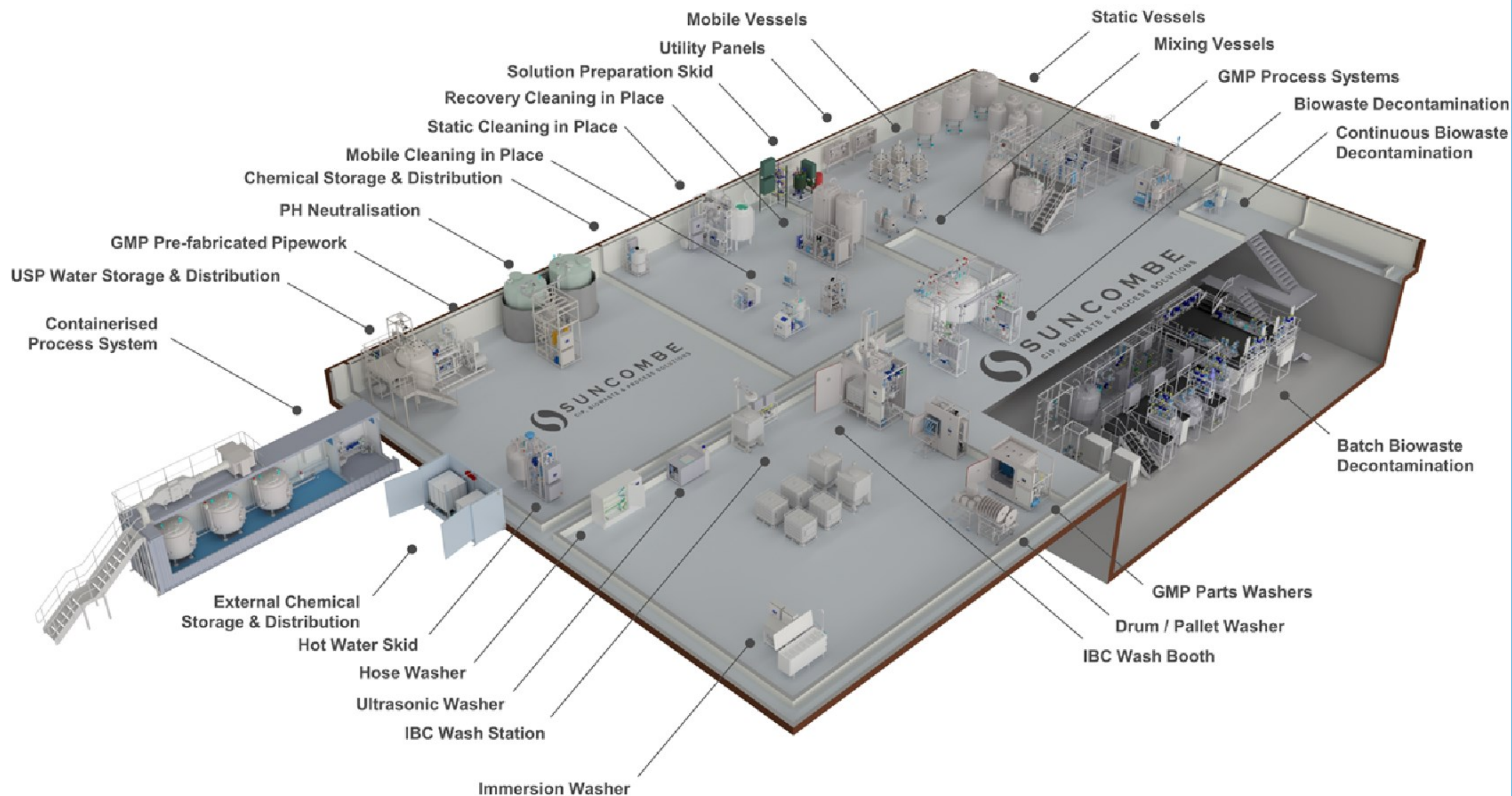
Suncombe Ltd, Jade House, Lockfield Avenue, Brimsdown, Enfield, Middlesex, EN37JY, United Kingdom

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



SUNCOMBE

CIP, BIOWASTE & PROCESS SOLUTIONS



About Us

Suncombe Ltd supply Cleaning and hygienic processing technology for the BioPharma, Medical, Food and other critical hygiene industries. From CIP to PartsWashers, we are uniquely capable of offering you a complete washing and processing solution. Formed in 1961, we have a tremendous amount of experience in-house and provide a high level of technical and engineering expertise. Our completed projects range from stand-alone systems to complete processing solutions. Our products are built to a high quality and encompass all relevant legislation, guidelines, testing, documentation, quality assurance and traceability requirements.

CIPWasher™ Introduction

The CIPWasher™ is an entry level washer which uses the principles of CIP to wash your equipment. It operates in a similar manner to a high pressure washer. High pressure washers are ideal for many cleaning applications, but have problems with cleaning in small enclosed spaces such as pipework, hoses, tanks and heat exchangers. To correctly clean this type of equipment the principles of CIP (cleaning in place) need to be adopted. CIP works on higher flowrates, lower pressures and normally recirculated cleaning.

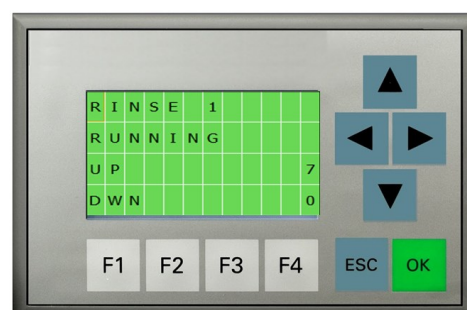
Lean Technology

Adopting LEAN principles, all Suncombe products are developed to ensure they minimise utilities and time, whilst ensuring the safety of the operators and the efficiency of the cleaning. Utilising innovative fluid handling techniques, they incorporate a combination of traditional and new technologies to provide an environmentally friendly, low water and energy usage washing facility that is safe and ergonomic for the operators.

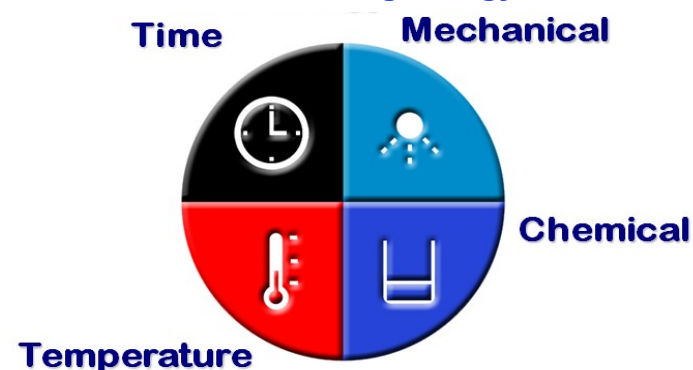
CIPWasher™ Photo with no Covers



CIPWasher™ Diagnostics



CIPWasher™ Washing Energy Sources



CIPWasher™ Operation

With adjustable flowrates from 20 to 100 litres per minute, pressures up to 2.5 barg, and temperatures up to 60 deg.C, the CIPWasher™ is a hybrid washer bringing the portability advantages of a high pressure washer with the ability to apply the cleaning principles of a CIP skid. The CIPWasher™ is designed to power industry standard sprayballs and spraydevices and clean pipework up to 40mm diameter. Great water and energy savings are offered by recirculating and recovering the CIP liquid. The CIPWasher™ is a mobile self contained system. It includes a buffer that is recirculated for the cleaning and is used as a water buffer for pre-rinsing and final rinsing.

CIPWasher™ Applications

the systems can be used for cleaning Tanks, Vessels, Vats, Heat Exchangers, Filters, Fermenters, Mixers, Processors, Pipework, Valves, Isolators, Mills, Coaters, Filters, Pumps, Dryers, Fillers and many other washing requirements.

Liquid Storage

Incorporating a dual volume 75 litre and 150 litre 316 Stainless steel liquid storage tank for storing, batching and delivering liquids. Complete with control instrumentation.

Liquid Supply

Using a 316 Stainless steel variable speed pump the system flowrate and pressure can be manually varied for each wash, ensuring that the optimum parameters are achieved every time whilst minimising liquid and energy usage and time.

Detergent

A chemical dosing systems is included with safe storage for a 10 litre chemical container. This chemical is used in the detergent rinse and the concentration can be changed by running the detergent pump for a preset time.

Heating

The CIPWasher™ includes an electrical solution heater.

Automation

The CIPWasher™ incorporates a control system which allows a single automatic cycle or separate cycles to be selected.

Preset Cycle

- Prerinse - Cold water rinse for variable time (<120 minutes)
- Detergent Recirculation - 75 or 150 litre variable concentration (<2%), variable temperature (<60°C) for variable time (<120 minutes)
- Final rinse - Cold water rinse for variable time (<120 minutes)

Manual Operations

- Cold or Hot Water Flush to drain
- Cold or Hot Water Recirculation
- Detergent Recirculation
- Detergent Flush to drain

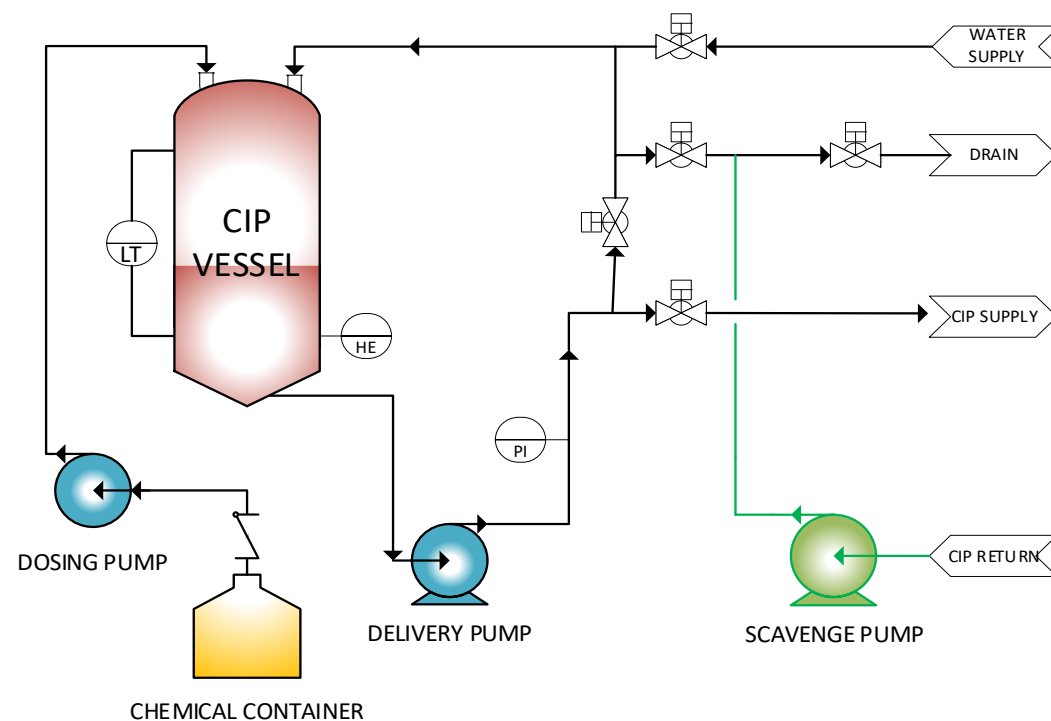
CIPWasher™ Key features

- ASME BPE Construction, fully drainable, crevice free.
- 316 stainless steel contact parts, 304 non-contact parts, T.I.G. Welding.
- ASME BPE Centrifugal Pump.
- ASME BPE Valves, manual and/or air operated.
- BioPharma instrumentation.
- Can be fitted with stainless steel covers
- Electropolished to pharmaceutical standards.
- EPDM, PTFE FDA-approved elastomers and triclamp connections.
- Enclosed head orbital welding to EN287/15614.
- Hygienic variable speed delivery pump
- Customizable HMI
- ATEX versions available.



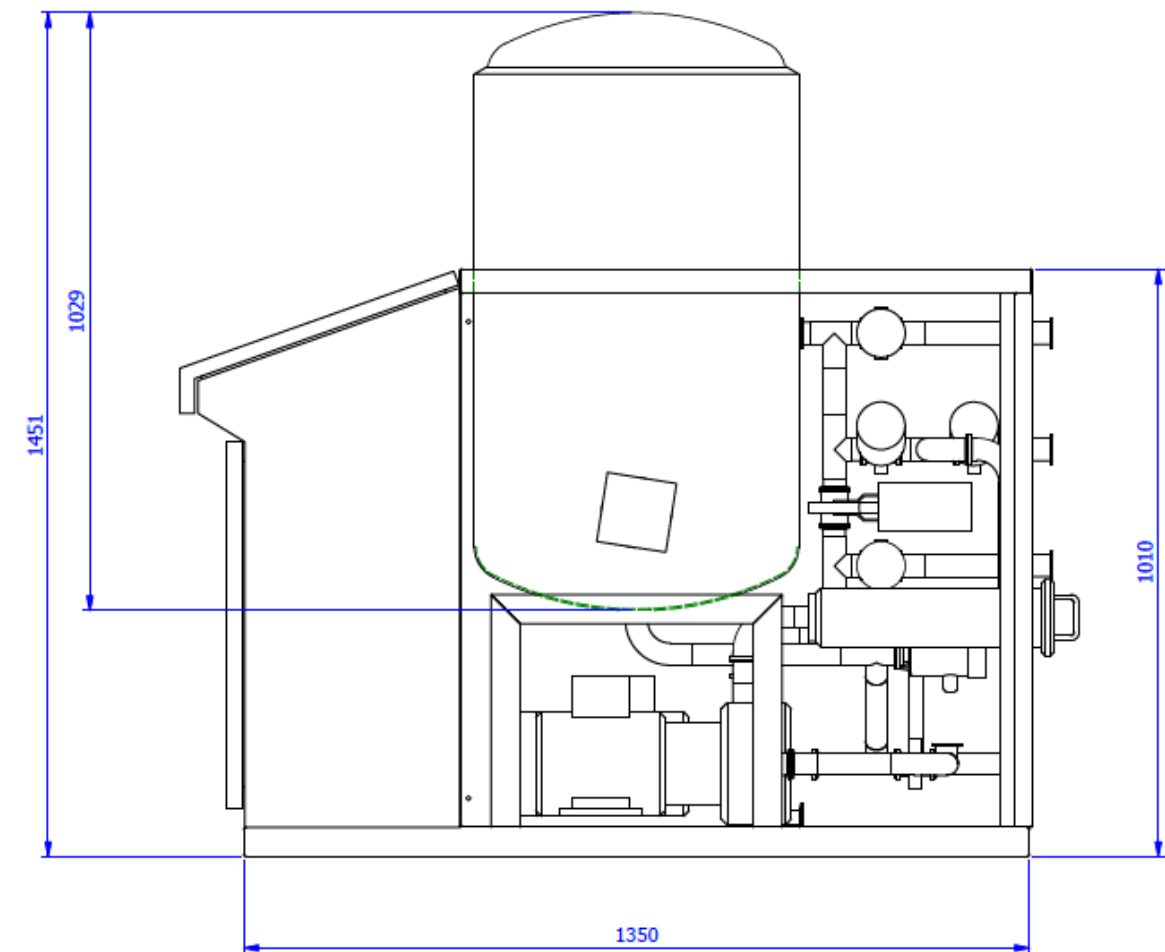
CIPWasher™ ASME BPE Standard

Introducing Suncombe's new optional ASME BPE Standard CIPWasher™ system. In addition to employing cGMP, a 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 Qualification. All functions of the equipment would be fully wet and dry tested and test results would be documented in the *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.

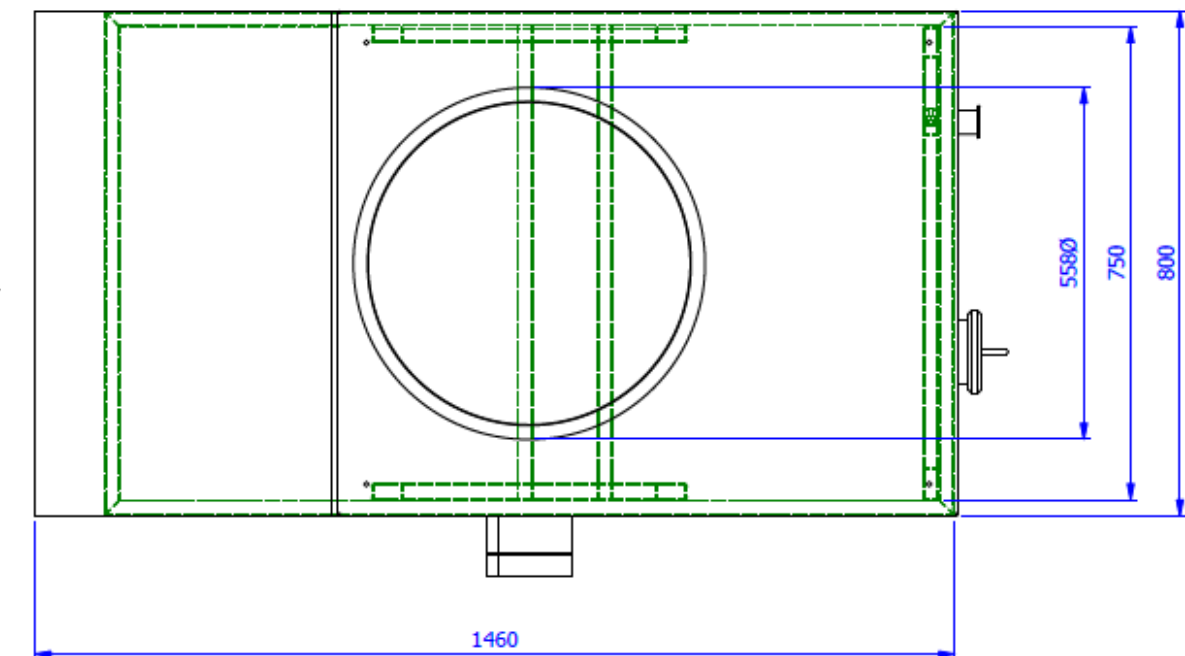


System flexibility

Suncombe understands the uniqueness and variation between client needs. Utilizing our decades of experience we can ensure the CIPWasher™ will fit to bespoke system requirements. We can offer a range of sizes to match operating space restrictions in addition to custom cost saving options. These include scavenge and recirculation features.



SIDE VIEW
(1:10)



TOP VIEW
(1:10)