



SUNCOMBE
CIP, BIOWASTE & PROCESS SOLUTIONS

IBC Wash Booth™



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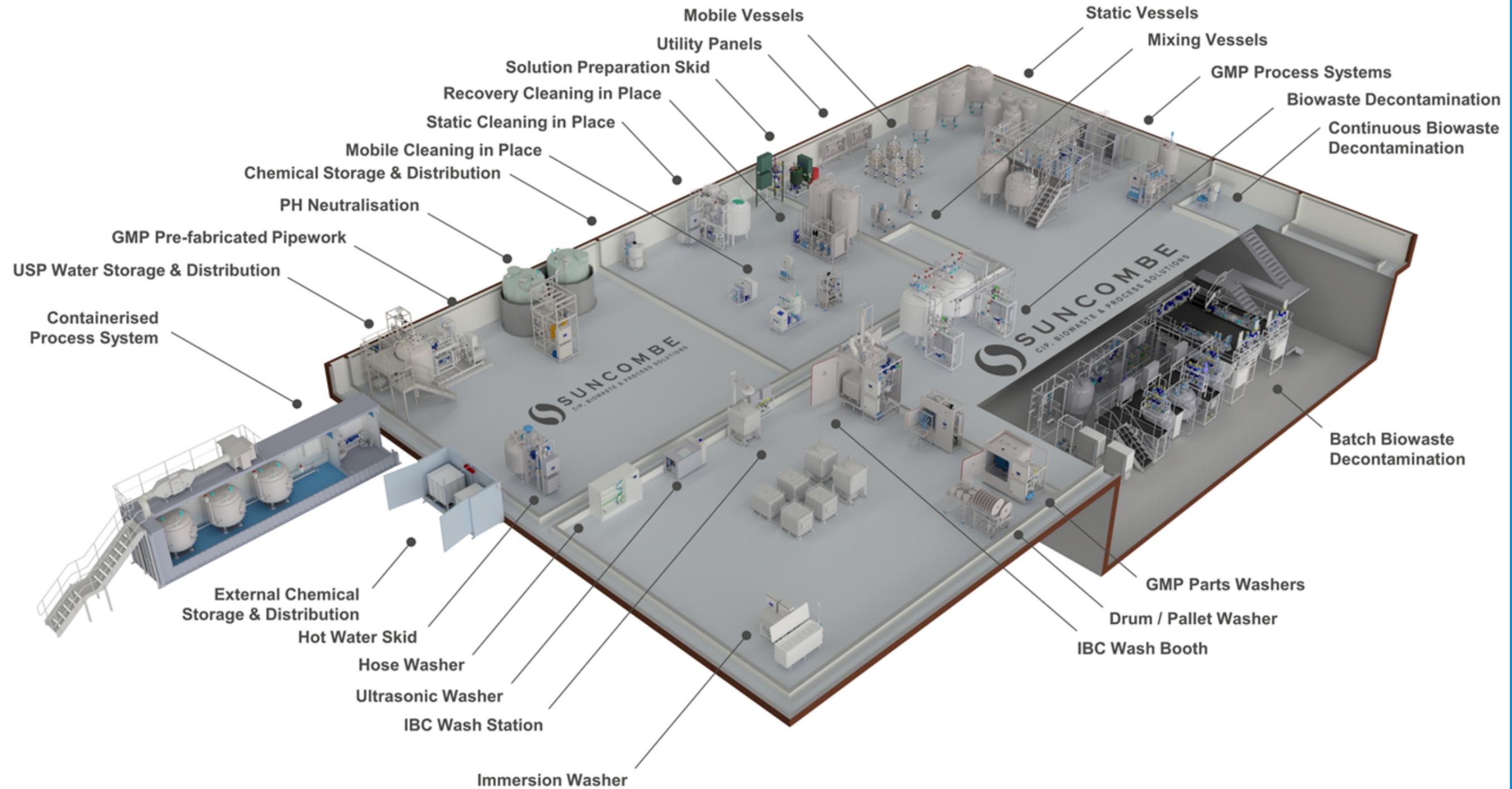
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Typical Manufacturing Standards

The IBCWashBooth™ provides liquid heating, chemical dosing, air drying, valving, pumps, instrumentation and an in-built control system.

Features

- 316L Stainless steel radius-corners, sloping design, crevice-free Washing Chamber
- Floor mounted or pit mounted booth with adjustable levelling
- Insulated Construction
- One to four chemical dosing systems
- Automatic locking door with window and internal light
- Inflatable door seal for full containment
- Options for cone and butterfly valve operation
- Special trolleys for drum, pallet and hose cleaning
- In-built CIP System for validated washing—can be remote mounted
- Hygienic Pumps, Valves and instruments
- Local or remote mounted HEPA filtered air drying and cooling

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 from entry level, through mid level PLC and HMI versions, to advanced validateable systems. All levels provide a repeatable automated cycle.

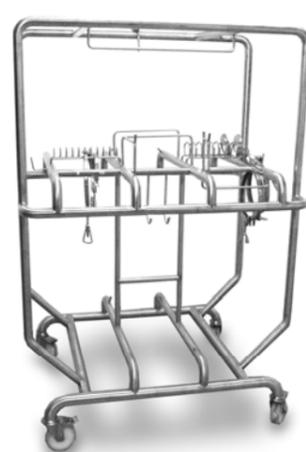
See Automation Datasheet for full details

Typical Utilities	If Available
Water	100 litres/min @ 1 bar
Air	Minimal use @ 7bar
Electricity	12 kW 400Vac 3ph+n 50hz
Steam	500 kg/hr @ 3 bar
Drain	100 litres/min @ 1 bar

Component Trolleys

The Washers can also be used to wash and clean other equipment. Custom designed trolleys and racks are available, with 3D models, to clean any equipment required in a repeatable, validateable method, including:

- Drums
- Pallets
- Change Parts



Common Options		
Back and Front Doors	Drying	Water Buffer Tank
Automatic Door/s	Automatic Lid Removal	Water Reclaim Tank
Cone Valve Actuation	Loading Conveyors	Electrical Heating
Split Butterfly Valve Actuation	Steam Heating	Bar Code Identification
Changed Pit Depth	BSL Decontamination	Lights Out Operation
Additional chemical dosing	Water pre-heater	90° Doors

Typical Manufacturing Standards

- Sanitary Construction, fully drainable, crevice free.
 - 316 stainless steel contact parts, 304 non-contact parts, T.I.G. Welding
- See Manufacturing Standards Datasheet for full details

Typical Equipment

- 316 Stainless Steel pipework
 - Large 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 IBCWashBooth™ was 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

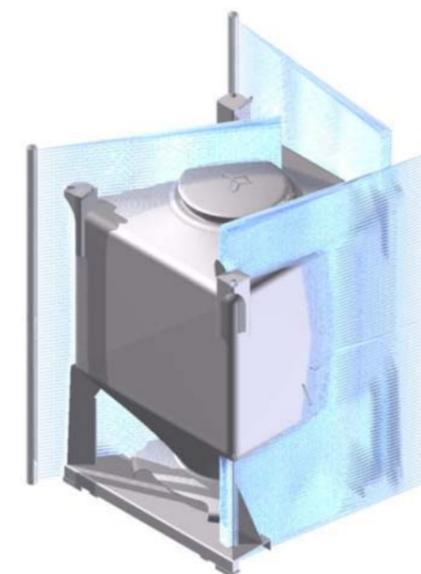
All functions of the equipment would be fully wet and dry tested and test results would be documented in the 'Pre-Factory Acceptance Test' (FAT) protocol. Following successful completion of this protocol, the client will be invited to the FAT test, where all tests can be repeated or the pre-FAT tests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

External Cleaning

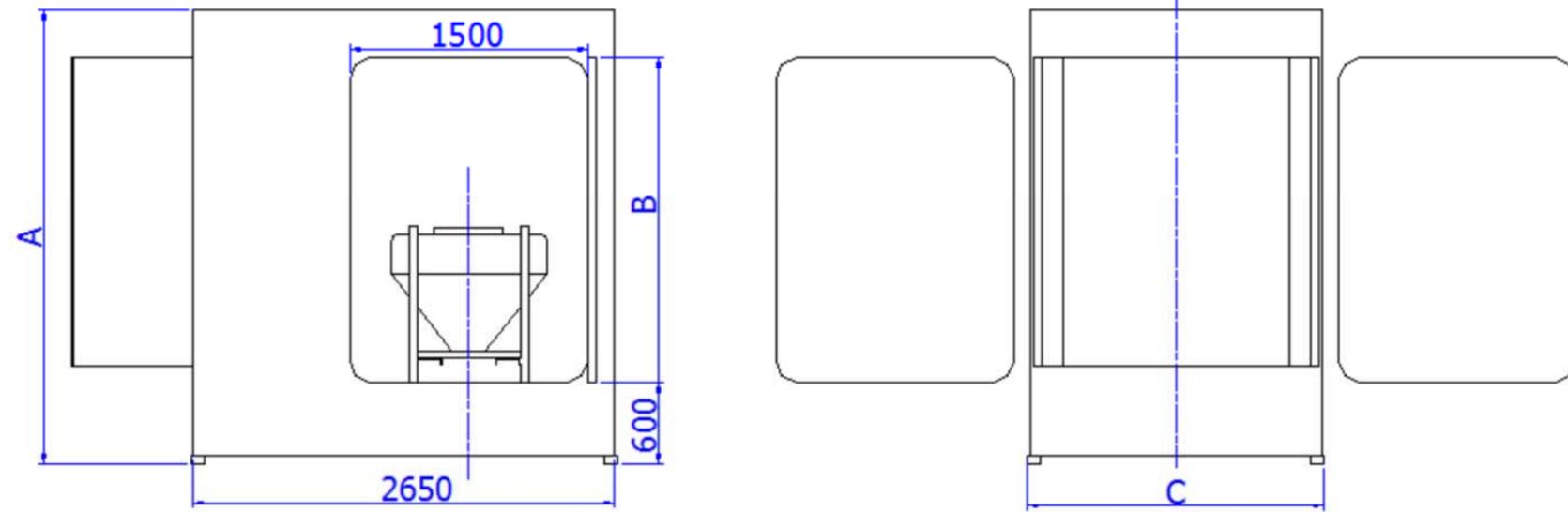
External cleaning is by provided by Suncombe exclusive Splurge Bars, providing repeatable results at low flow and



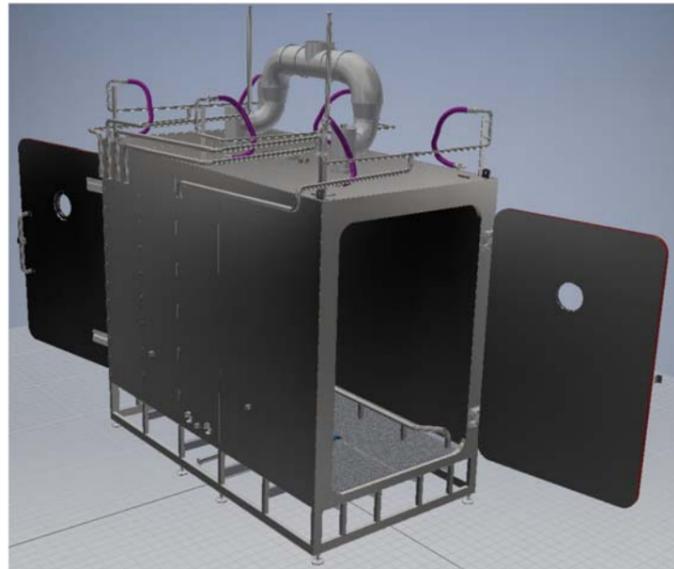
Typical IBCWashBooth



IBCWashBooth™ Layout



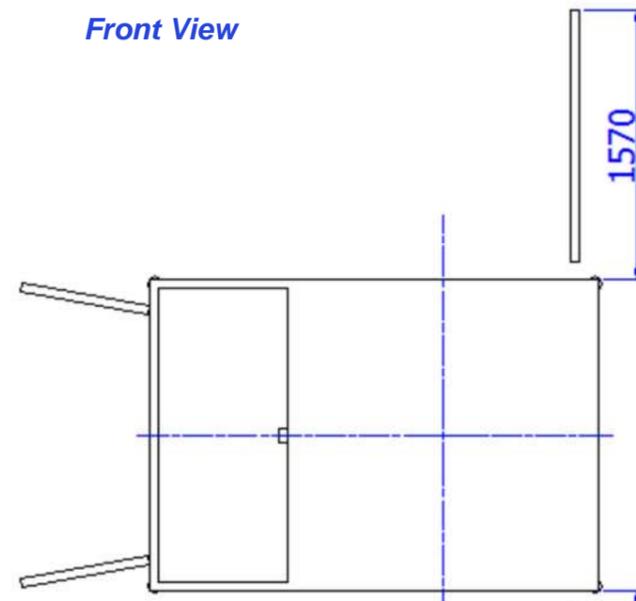
Typical IBCWashBooth Model



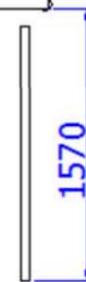
Typical IBCWashBooth Split Valve



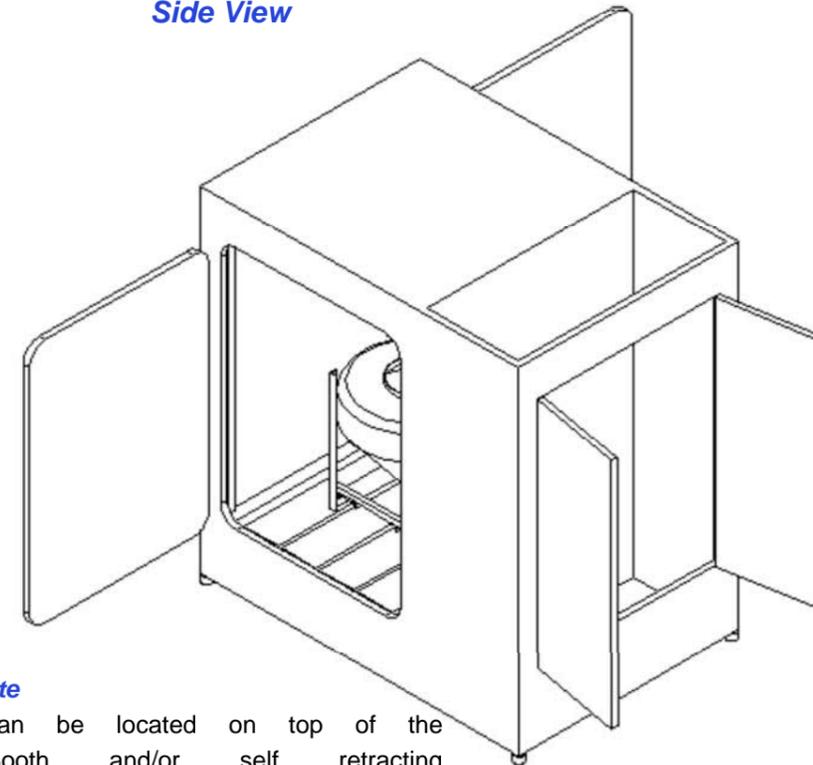
Front View



Top View



Side View



Height Note

Dryers can be located on top of the IBCWashBooth and/or self retracting spray devices. Both options would increase the height of the unit.

Dimensions

Part #	Dimensions mm		
	A	B	C
IBCWashBooth™1500	2,700	1,500	1,850
IBCWashBooth™2000	3,200	2,000	1,850
IBCWashBooth™2300	3,500	2,300	1,850
IBCWashBooth™2500	3,700	2,500	1,850
IBCWashBooth™2800	4,000	2,800	1,850
IBCWashBooth™3000	4,200	3,000	1,850
DuoBooth™	Various	Various	3,700

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.

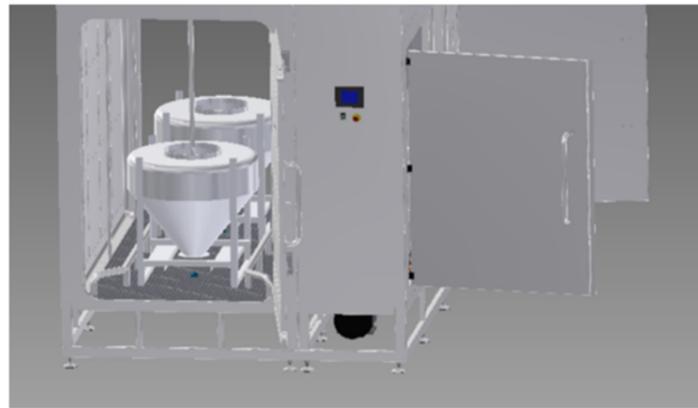
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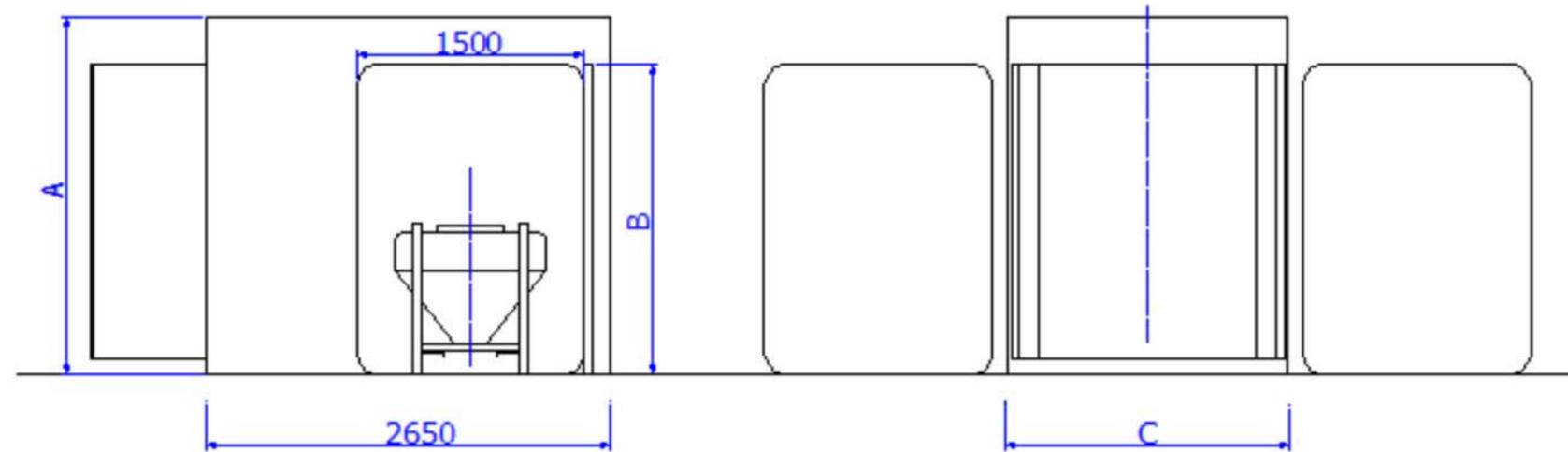
Custom Dimensions

Due to the flexibility of our manufacturing methodology, we are able to provide the IBCWashBooth range to client preferred dimensions. This can be requested to aid ingress into a building or due to building constraints.

DuoBooth Model

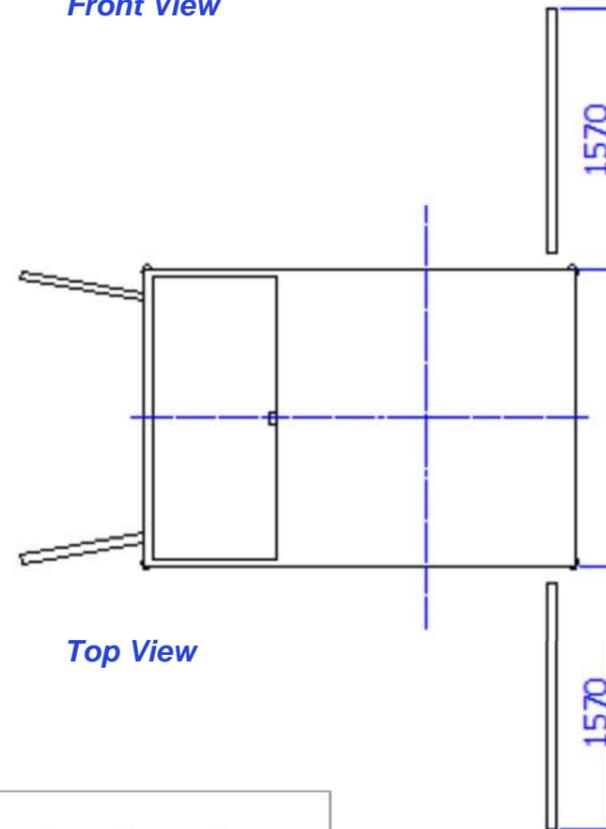


Pit Mounted IBCWashBooth™ Layout

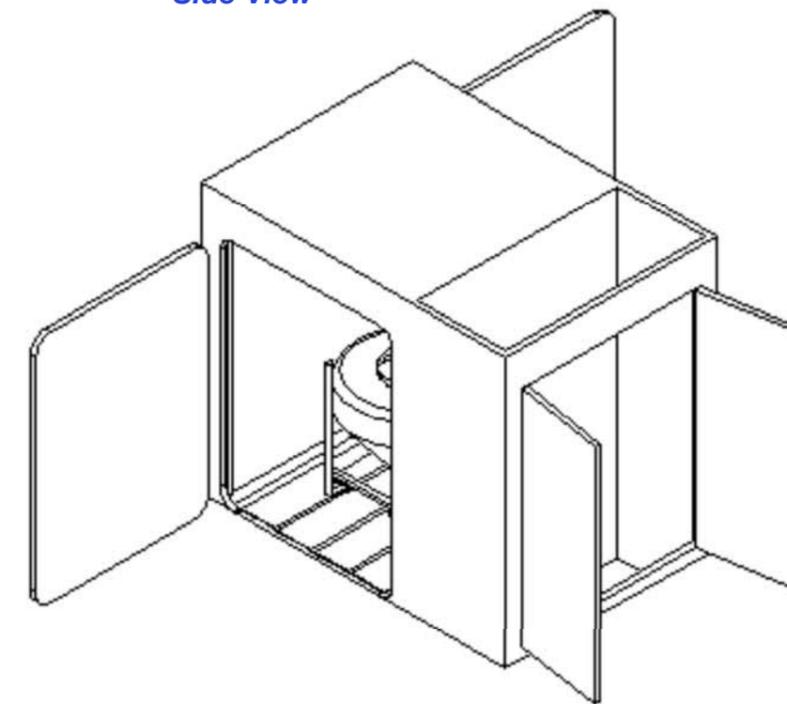


Front View

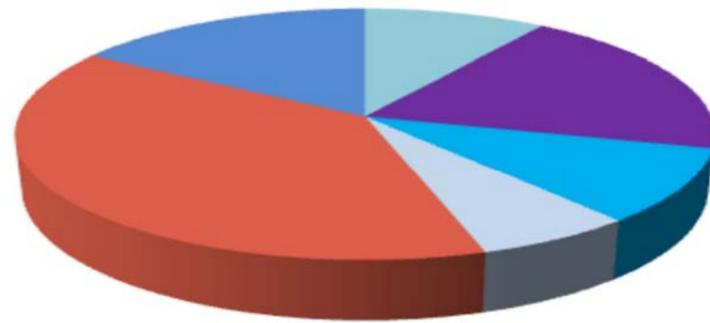
Side View



Top View



Typical Wash Cycle Times



- Pre-Rinse (3 mins)
- Detergent Rinse (6 mins)
- Final Rinse (3 mins)
- Air Purge (2 mins)
- Drying (12 mins)
- Cooling (5 mins)

Dimensions

Part #	Dimensions mm		
	A	B	C
IBCWashBooth™1500	2,100	1,500	1,850
IBCWashBooth™2000	2,600	2,000	1,850
IBCWashBooth™2300	2,900	2,300	1,850
IBCWashBooth™2500	3,100	2,500	1,850
IBCWashBooth™2800	3,400	2,800	1,850
IBCWashBooth™3000	3,600	3,000	1,850
DuoBooth™	Various	Various	3,700

Height Note

Dryers can be located on top of the IBCWashBooth and/or self retracting spraydevices. Both options would increase the height of the unit.



IBCWashBooth™ with Conveyor Feed, Passthrough Automatic Doors, Automatic Lid Removal, Automatic Spray Device Insertion, Split Containment Valve Opening, and Drying.

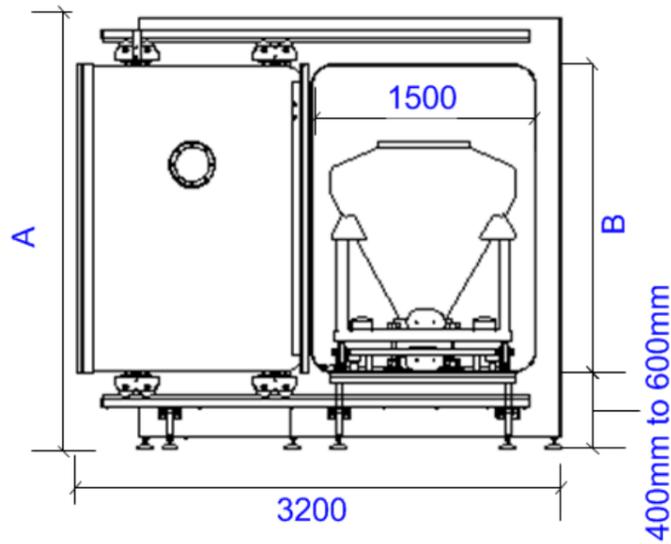


Split Valve Docking

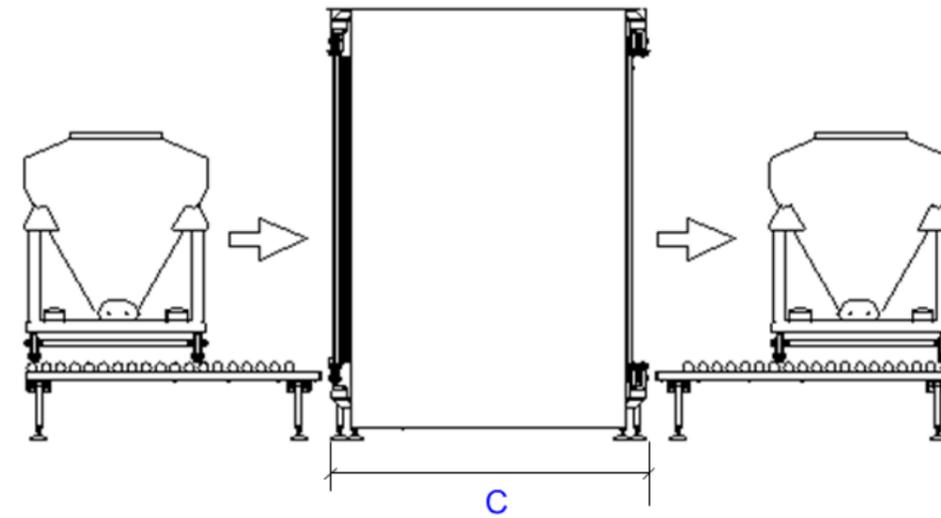


Automatic Lid Removal

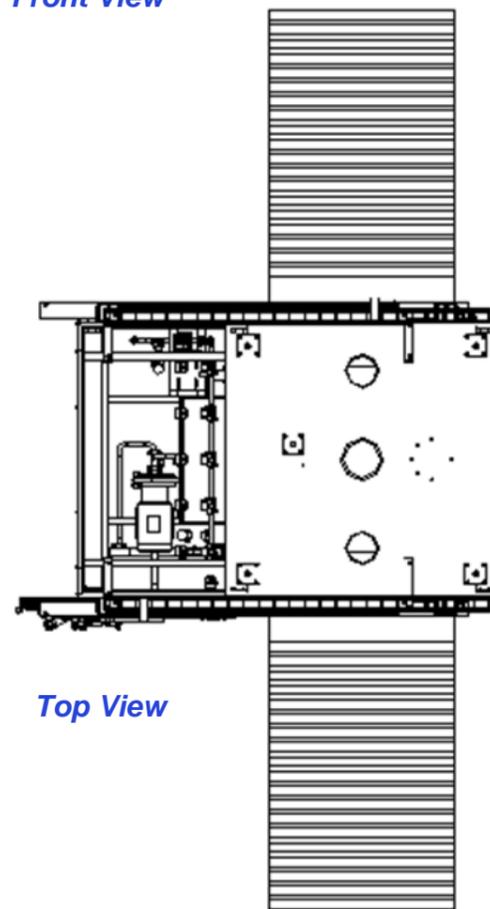
IBCWashBooth™ with Sliding Door Layout



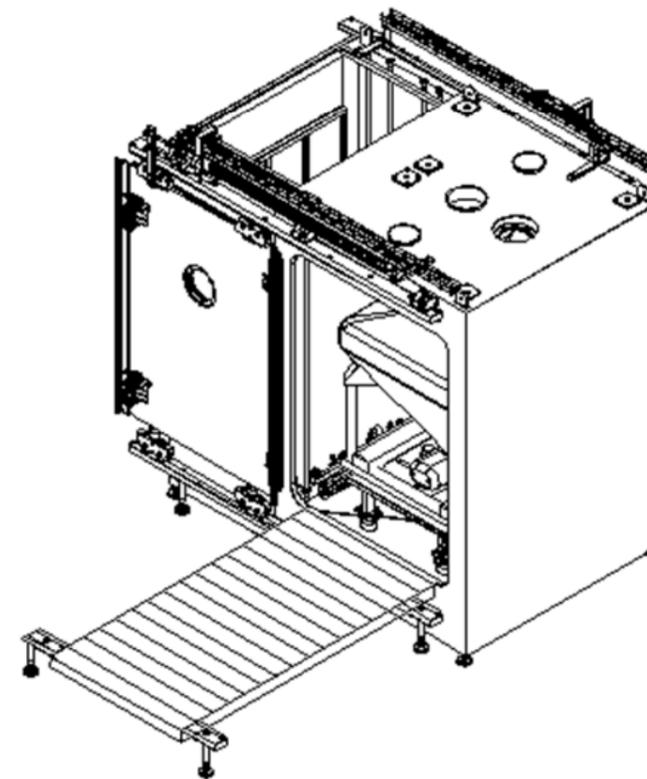
Front View



Side View



Top View

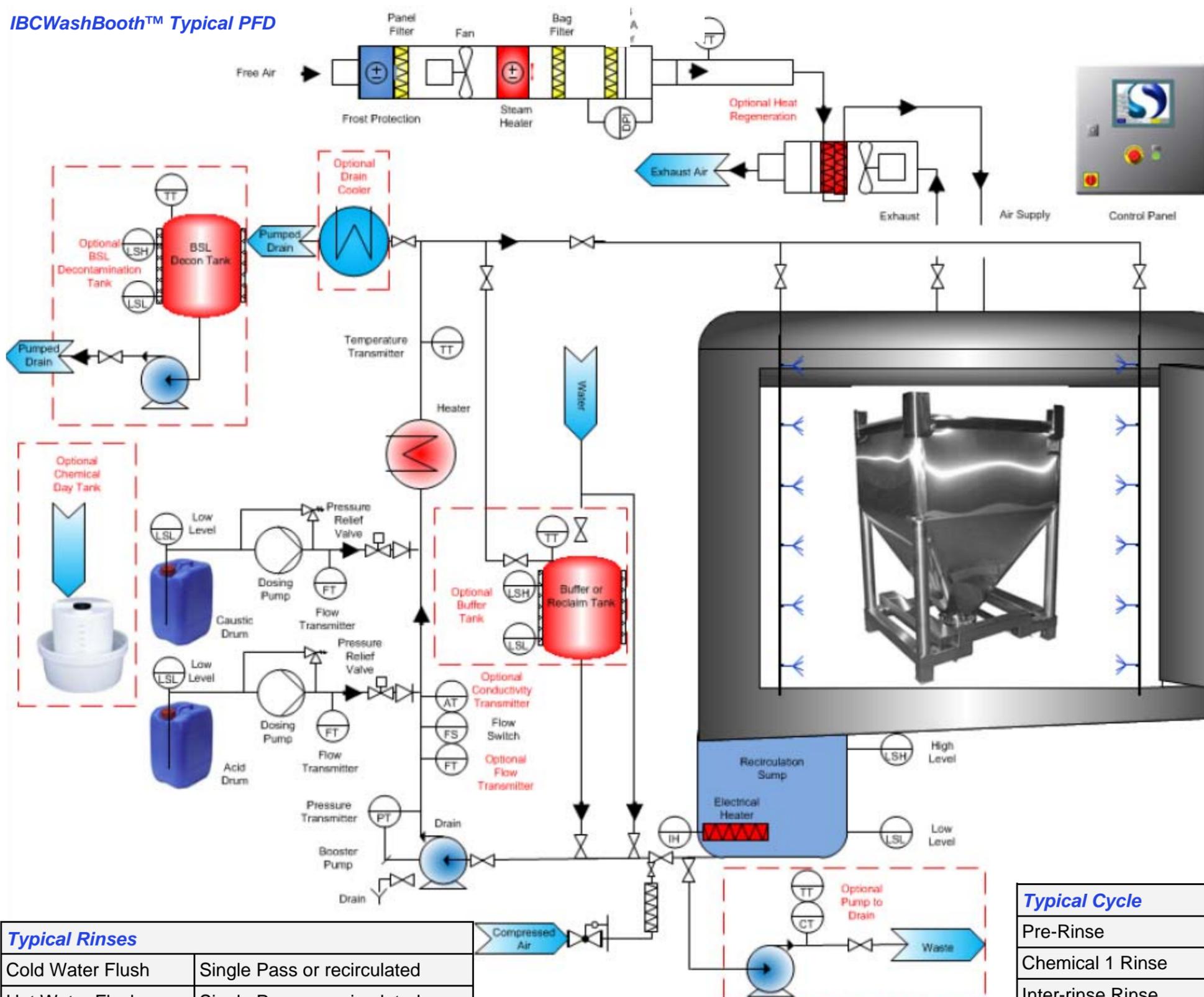


Internal Conveyor

Dimensions

Part #	Dimensions mm		
	A	B	C
<i>IBCWashBooth™1500SL</i>	2,100+	1,500	2,100
<i>IBCWashBooth™2000SL</i>	2,600+	2,000	2,100
<i>IBCWashBooth™2300SL</i>	2,900+	2,300	2,100
<i>IBCWashBooth™2500SL</i>	3,100+	2,500	2,100
<i>IBCWashBooth™2800SL</i>	3,400+	2,800	2,100
<i>IBCWashBooth™3000SL</i>	3,600+	3,000	2,100
<i>DuoBooth™SL</i>	Various	Various	3,700

IBCWashBooth™ Typical PFD



Versatile Recipe Control

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 washing or can be used in recirculation mode, so that the sump is filled and recirculates the liquid for a pre-set time.

Typical Rinses	
Cold Water Flush	Single Pass or recirculated
Hot Water Flush	Single Pass or recirculated
Cold Chemical Rinse	Single Pass or recirculated
Hot Chemical Rinse	Single Pass or recirculated
Air purge	To remove water from pipework
Air Blow	Air pumped into washing chamber
Gravity Drain	System Drain

Typical Cycle	
Pre-Rinse	Deliver cold water as a single pass rinse
Chemical 1 Rinse	Fill sump with hot chemical — recirculate
Inter-rinse Rinse	Fill sump with cold water — recirculate
Chemical 2 Rinse	Fill sump with hot chemical — recirculate
Inter-rinse Rinse	Fill sump with cold water — recirculate
Final Rinse	Deliver cold water as a single pass rinse
Air purge	Removes water from pipework
Air Blow	Air pumped into washing chamber
Gravity Drain	System Drain