

HTST Skid

High-Temperature Short Time (HTST) Systems

The Validatable HTST systems
for the Biotech sector



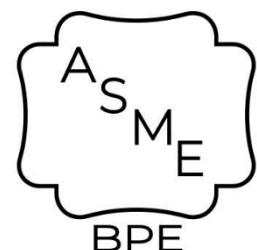
Overview

The Suncombe High-temperature short-time treatment systems (also known as HTST or flash pasteurization), are quickly becoming an integral part of many biopharmaceutical companies' viral risk-mitigation strategies for bioburden reduction and viral inactivation.

The systems are configured to rapidly heat the material from ambient, to a pre-determined temperature and then subsequently hold the material at this temperature to reduce or eliminate viable microorganisms and viruses in a liquid under continuous flow conditions, prior to applying cooling to reduce the temperature for process use.

The Suncombe HTST systems have been specifically developed, using robust, proven design principles, the systems are designed around the requirements of the ASME Bioprocessing Equipment standard to ensure that your product is HTST treated in a reliable, repeatable, validatable and auditable manner. Facilities can be incorporated for in built cleaning in place (CIP) and sterilising in place (SIP).

*Electrical heating now
available throughout
the range*



HTST Skid DATASHEET

VERSION 2.2



Welcome

Since our foundation in 1961, Suncombe has pioneered the development of innovative solutions for cleaning in place, bio-waste decontamination, GMP Washers, sanitary skids and vessel skids. The business continues to be privately owned and managed day to day by Dave Adams and Steve Overton.

Supporting Dave and Steve is a close-knit, dedicated, highly motivated and long-standing team encompassing a wealth of technical experience and knowledge in all relevant disciplines, including design, manufacture, testing, installation, validation, documentation and after-sales support. All of our work is carried out across our own facilities, just off the M25 in north London.

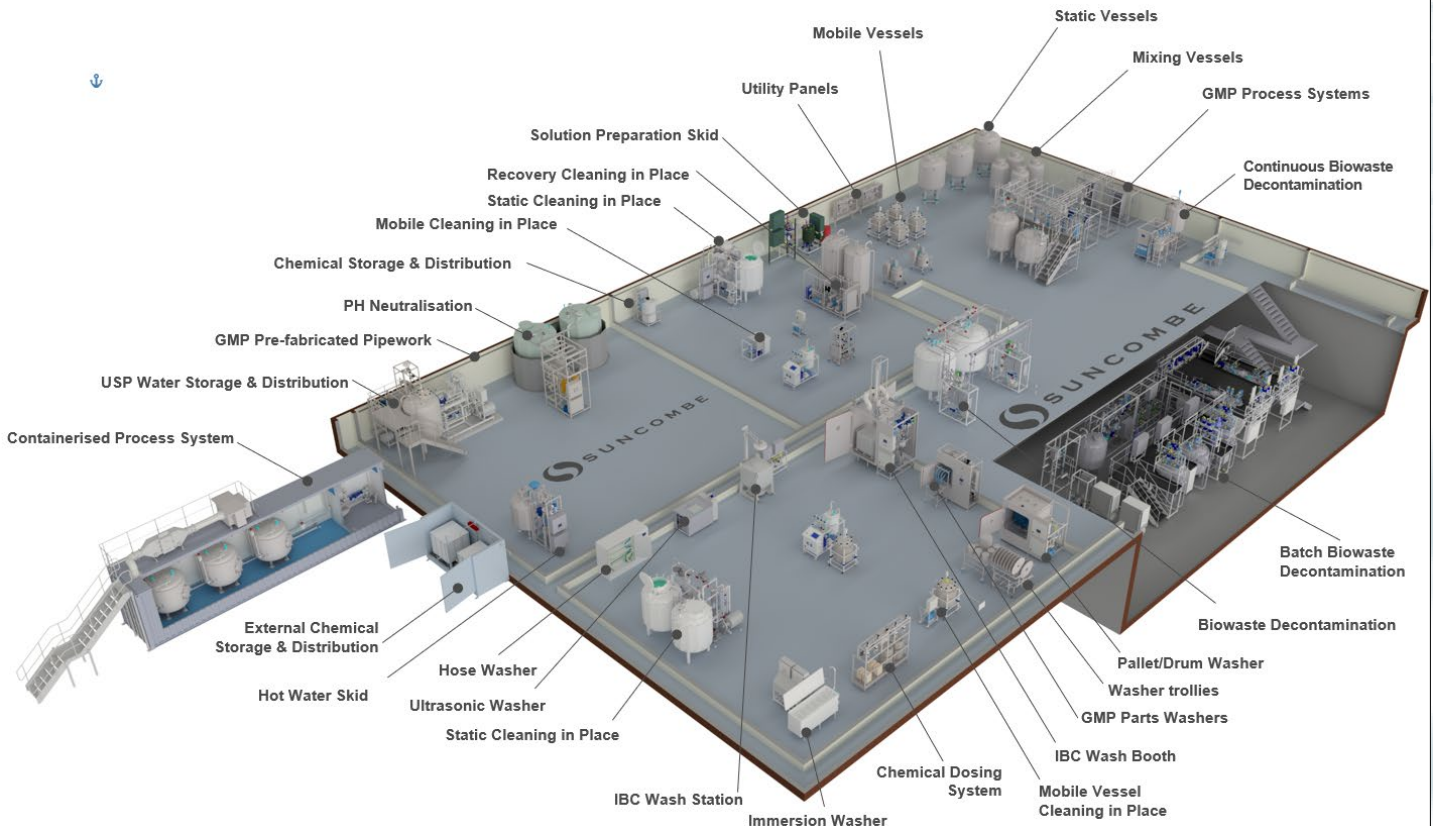
The team employ the very latest techniques, standards and best in class solutions. Having such a strong team allows us to offer the ability to carry out all of our work in-house, under our direct control

and quality management system. It also ensures that we own and preserve all the knowledge and experience gained with every project and allows us to offer continued support for all our installed systems throughout their lifetime.

Our Clientele



Our Equipment



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Key Features	Benefits
Sanitary 316L stainless steel construction and components	Systems are constructed to the highest sanitary standards with 3.1 material traceability and welding dossier. This ensures a fully validatable and sterilisable, cleanable environment.
Static/Mobile	Static and Mobile versions available.
Treatment Parameters	Variable flowrates, treatment temperature, holding time, outlet temperature. Preset and variable configuration to provide Temperature/Time, f0 or log kill requirements. Temperatures up to 136°C or greater if required.
Siemens PLC and 12" colour HMI with options for larger HMIs	Control hardware is industry standard and supported worldwide by Siemens. Ethernet interface included for transfer of critical operating variables to other systems. Designed to enable integration to third party equipment or higher level control system. Option for Rockwell Allen Bradley.
Suncombe BioSuite software	Control software specification has been developed and proven over many years for HTST applications and includes a wide range of user or administrator configurable parameters to enable customised decontamination profiles. User passwords, Active Directory, Audit Trails, Electronic batch reports for local or network storage are possible. User interface screens and process visualisation is simple, intuitive, clear and comprehensive. Remote access options are possible if required. Software complies with FDA 21CFR and EU GMP regulations.
Fully automated processing	The system provides continuous operation and Suncombe's BioSuite software enables fully automated treatment.
Fully automated reporting	Electronic pdf reporting included – printed report optional
Automatic Operation	Automatic Liquid Inlet Automatic Liquid treatment Automatic Liquid Discharge Automatic Alarms and Warnings
Utility Requirements	Systems only require compressed air, water, steam, coolant and electrical utility connections.
Heating Options	Direct steam, indirect steam or low temperature hot water heating for delicate liquids. Options for oil and electrical heating.
Sustainability	Designed for sustainability, options for regenerated and sustainable energy usage.
Continuous monitoring of key parameters	HTST process is highly repeatable and validatable.
Safety	Alarms, interlocks and fail-safe design prevent waste discharge in the event of an unsuccessful treatment. This encompasses scenarios such as power loss and under-temperature events.
Plug 'n' Play	Comprehensive in-house testing to ensure fast start up on site.
Covers	The systems are also available with stainless steel or thermoplastic covers
Compact design	Designed to fit into new facilities or to be retrofitted into existing facilities with limited available space.
Configurable	Based on generic standard modules, we can supply individual units custom designed for your specific requirement.
Cleaning In Place and Sterilising In Place	Prepared for CIP and SIP with optional CIP/SIP System

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Designers, manufacturers & installers of quality, hygienic processing and cleaning systems and Equipment

