BMM WESTON

www.bmmweston.com

Steam Sterilizers

- High performance
- User-friendly
- Safe and reliable operation
- Clean steam generation
- Efficient consumption
- Compliant with latest directives
- Wide range of chamber volumes
- Available in Clinical or Laboratory configurations

Steam Sterilizers

Selecting the right sterilizer for your application is crucial

Performance, ease of use and reliability are essential for sustaining maximum productivity.

With chamber capacities ranging from 160 through to 3000+ litres and available in single-ended and pass-through configurations, BMM Weston steam sterilizers offer a solution to meet your needs.

Combining functionality, high specification and premium UK engineering, BMM Weston steam sterilizers are the number one choice for today's demanding environment.

10.4" Full Colour Touch Screen Display

- > *One-touch cycle start*
- > *Intuitive menu navigation*
- > *Multi-level user control*
- > *Control Data download and backup facility*
- > *Micro-processor control*
- > *Energy saving standby mode*
- > *Cycle data can be easily printed*

Intuitive User Interface

Our steam sterilizers are fitted with a user-friendly and intuitive interface that allows the appropriate cycle to be selected quickly and easily.

When the cycle is in progress, important cycle information is displayed. This includes the current stage along with time, temperature and pressure values. The user is informed of any safety concerns via automatic alerts and alarms.

Multi-level user access to special menus is password-protected:

- Supervisor access
- Maintenance
- Validation
- Cycle log storage
- Machine configuration

Key Features:

Chamber
Rectangular cross-section in 316L stainless steel

Steam Jacket
316L Stainless steel steam heated jacket allows for improved drying and heat retention between cycles

Water Jacket Cooling System - Laboratory
Water circulation through jacket accelerates cooling

Insulation
Fully insulated chambers and steam pipes for maximum safety and energy conservation

Automatic Powered Door
Pneumatically powered sliding door for easy operation

Pressurised Door Seal
Pressure-operated floating door gasket for a perfect door seal

Multiple Cycles
Up to 49 configurable cycles can be supported using standard software

steamsave

Allowing the autoclave jacket into economy mode when the sterilizer has been left dormant, the controlling pressure of the chamber will automatically be lowered thereby demanding less energy.

Compliant with UK and EU regulations

All BMM Weston sterilizers are designed and manufactured in the UK to meet European and International regulatory requirements. Clinical sterilizers comply fully with the Medical Device Directive 93/42/EEC.

Additionally all sterilizers comply with the Pressure Equipment Directive 2014/68/EU, Machinery Directive 2006/42/EC and EMC Directive 2014/30/EU.
Our Quality Management System operates to ISO 9001:2015 and ISO 13485:2016.
Our machines comply with all relevant European standards, along with NHS guidelines CFPP 01-01 Part C.

Optional Features

Integral RO
Ensures that the correct quality of water is supplied to the boiler for the production of clean steam.

Integral Air Compressor
Fitted where a plant air supply is not available. The compressor is oil free and quiet in operation.

Variable Cool Drain
Fitted where heat sensitive drain systems are installed to ensure water flowing to drain is at a suitable temperature.

Integral Steam Generator
Integral steam generators are heated either electrically (ESG) or by steam (SSG) and sized to ensure a continuous clean steam supply. Water level is measured by a radar sensor to ensure accurate and reliable performance. Automatic blowdown is fitted as standard to control water quality.

Stand alone generators for all configurations and stainless steel steam distribution headers are also available.

Data Log Store
Cycle log data stored in internal memory for up to 50 cycles

Bar Code Readers
Optional bar code readers available for fast and simple data entry

Printer
Compact 40-column printer

Pneumatic Valves
Pneumatically actuated valves delivering improved reliability and performance

Load Probe - Laboratory
Provides additional control of sterilizing stage. In cooling, ensures safe load temperature before door can be opened

Panelling
Fully enclosed with cabinet panels

Space-Efficiency
Sterilizers of all capacities are designed to take up as little space as possible relative to chamber volume

axis*1*
Manual loading trolley

axis*2*
Electric lift (variable height)

axis*3*
Electric loading trolley

axis*4*
Electric lift & Loading trolley (variable height)

aquasave

Savings when water matters!

BMM Weston offer various levels of water saving to support the demanding economic requirements.

aqua*save1* based upon previous S2 configurations
aqua*save2* addition of water recovery tank
aqua*save3* chilled water loop system required

aqua*save1*
15% water reduction

aqua*save2*
50% water reduction

aqua*save3*
90% water reduction

Clinical Sterilizers

The sterilizer is intended to process wrapped instruments and utensils, air entrained materials such as linens, gowns, dressings and medical or surgical equipment.

The sterilizer, as standard, is fitted with:

- Sterilizing cycles at 134°C and/or 121°C
- Bowie-Dick test
- Leak Rate test
- Air detector function test
- Additional cycles can be configured from a series of discrete stages

Laboratory Sterilizers

Laboratory machines are intended to process glassware, plastic discard, fluids, and textiles as well as the free steaming of culture media. In standard form, the laboratory sterilizer is supplied with six cycles, each configured to perform a separate task, whilst collectively meeting the total need for most laboratory duties:

- Sterilizing cycles from 105°C to 134°C
- Leak rate test
- Cycles can be configured from a series of discrete stages

The Sterilization Cycle

The cycle is designed to achieve rapid and even penetration of steam into the load to produce an effective, fast and repeatable sterilizing process.

In addition to the standard cycles fitted, further cycles can be configured from a series of discrete cycle stages to suit your individual requirements.

Each stage performs a separate function and parameters controlling the function are variable within pre-defined limits. Similarly, the user can ascribe warnings and fault conditions to parameters if they exceed specified limits. The cycle shown below is typical of the stages used in the construction of a wrapped instrument cycle.

Air Removal – Vacuum:

The bulk of the air is removed from the chamber and load with an initial vacuum to below 60mbA.

Air Removal – Negative Pulsing:

The residual air remaining within the load is further diluted by a series of steam/vacuum pulses between the pre-set limits.

Air Removal – Positive Pulsing:

The load is now subjected to a series of positive steam/vacuum pulses between pre-set limits. This further dilutes any remaining air within the load so that a rapid and even penetration of steam is achieved during the sterilizing stage.

Air Detection:

During the air removal stage an air detector checks for the pressure of air. The amount of air present within the load should now be at a very low level. If air is present in such a quantity as to affect the efficacy of the sterilizing hold stage, the cycle will fail and abort drying.

Steam admission:

Steam is now admitted into the chamber to raise the temperature of the load to the sterilizing temperature.

Sterilizing:

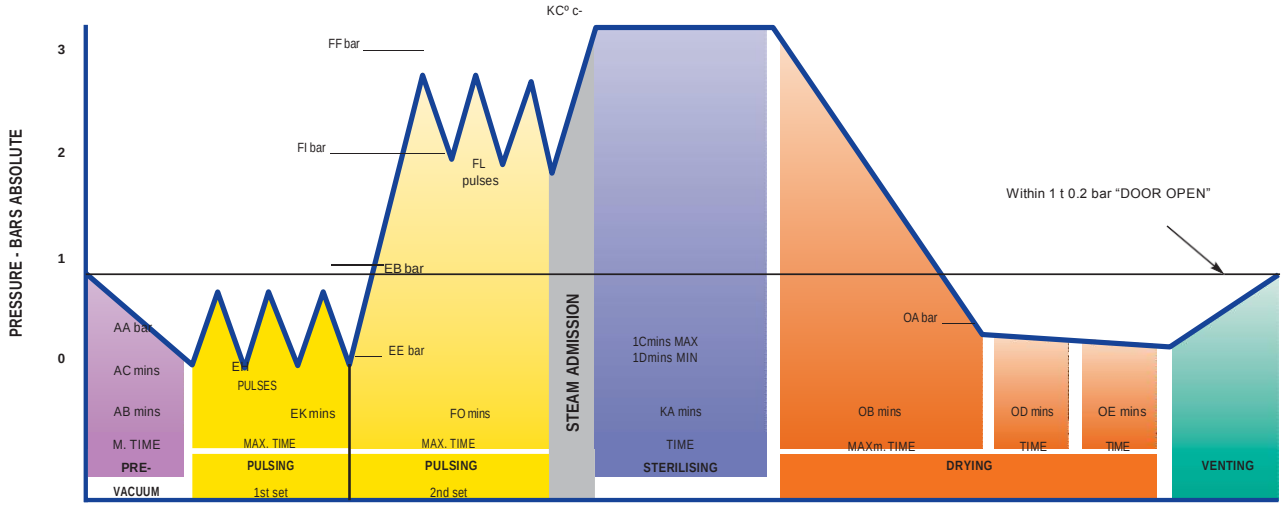
The load is now subjected to steam at sterilizing temperature, normally 134°C, for a minimum period of three minutes. The control system monitors that the temperature remains within the selected sterilization temperature band. A detected error will result in a failed cycle.

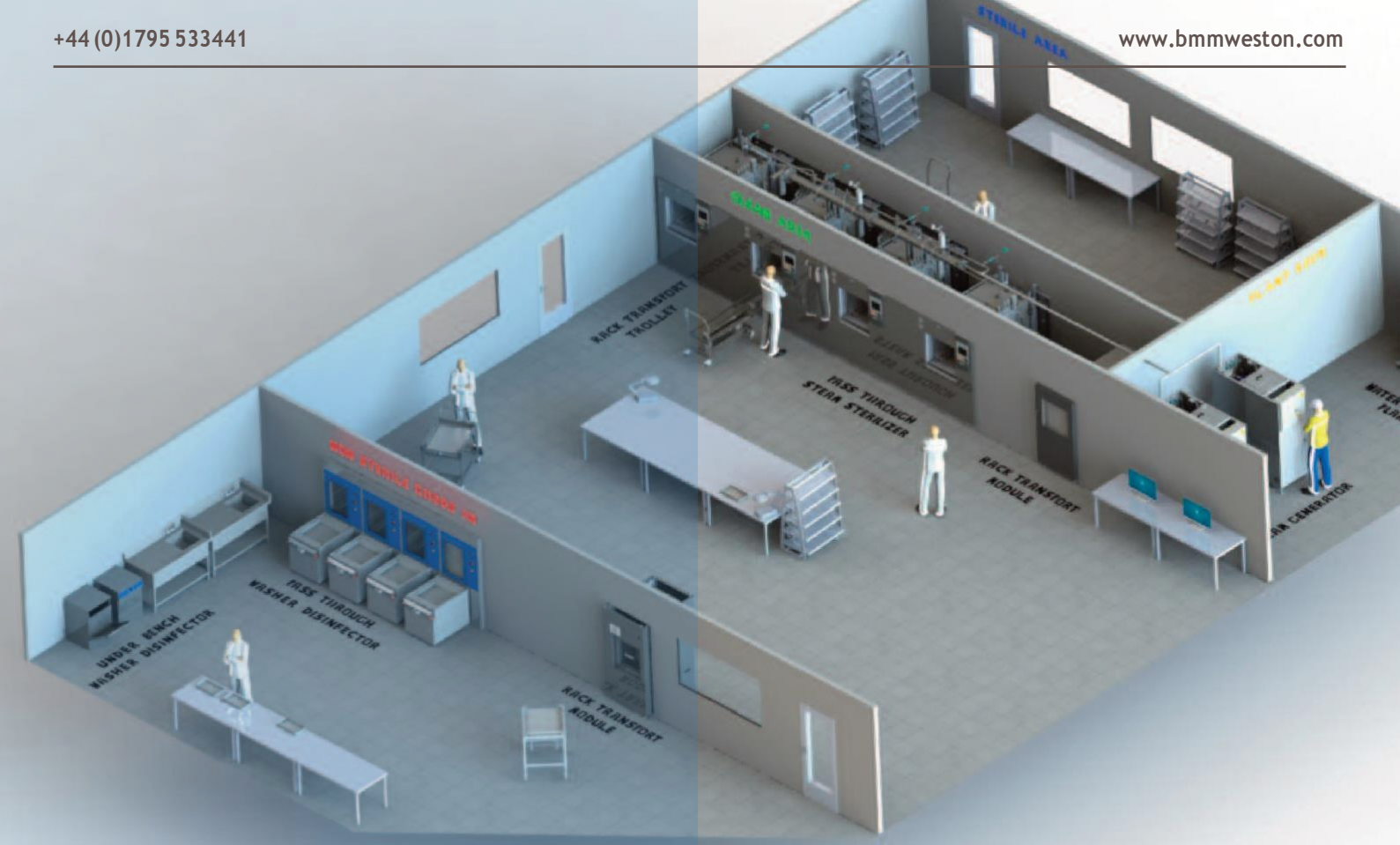
Drying:

Following sterilization the chamber is evacuated to typically 40mbA. The condensate formed during the heating and sterilizing stages evaporates leaving the load dry on removal from the sterilizer.

Venting:

After the drying stage the chamber is raised to atmospheric pressure by admitting filtered air.





Cutting-Edge Visualisation

From detailed building layouts to life-like 3D CAD renderings and walkthroughs, BMM Weston can enable you to clearly visualise your department during the conceptual stages of design in order to optimise workflow and performance.

Designing Your Department

Using our extensive knowledge and decades of experience BMM Weston can support the development of your CSSD from the earliest stages of design all the way through to completion, ensuring the maximum levels of safety, hygiene and efficiency in your department.

Extensive Range of Machines

BMM Weston offers an extensive range of machines to meet your demands and ensure that your needs will be fulfilled in the most cost-effective manner.

With horizontal and vertical sliding doors, single-ended and pass-through configurations, a comprehensive range of chamber capacities and the option for integral steam generation, we can offer a machine well suited to your working environment.

Optimising Performance

BMM Weston can provide expert advice in order to help create a department tailored to your exact requirements - minimising your costs, maximising productivity and preventing bottlenecks.

Taking into consideration your required workload, availability of space and all other relevant factors we will provide the most suitable machines in an optimal layout to allow your department to run seamlessly.

Technical Data

S1 160 - 300 litre 1 - 2STU Vertical Door Compact unit

S2 370 - 870 litre 4 - 12STU Vertical Door Compact unit

S3 550 - 1500 litre 6 - 21STU Horizontal Door Large Capacity

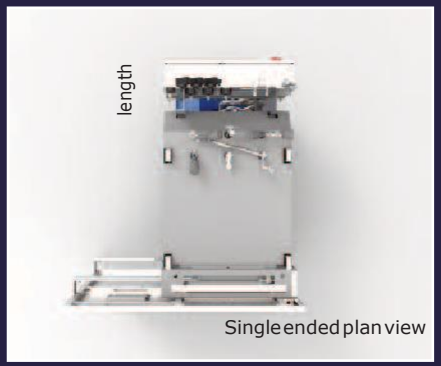
S4 1070 - 2320 litre Pit mounted Horizontal Door Large Capacity

S5 1660 - 2730 litre Pit mounted Horizontal Door Large Capacity

Designed and manufactured in the UK

	Porous Load Sterilizer Model No.	Laboratory Sterilizer Model No.	STU Capacity (600 x 300 x 300mm)	Volume (litres)	Chamber size (w x h x d mm)	Horizontal / Vertical Door	Single Ended	Pass through (double door)	Barrier seal available	Integral steam generator available	Overall width & height (mm)	Overall length (mm)
Series	P106	L106	2	160	350x670x680	V	✓	✗	✓	✓	600x1970	1100
	P108	L108	3	230	350x670x980	V	✓	✗	✓	✓	600x1970	1400
	P106D	P106D	2	160	350x670x680	V	✗	✓	✓	✓	900x1970	1000
	P108D	L108D	3	230	350x670x980	V	✗	✓	✓	✓	900x1970	1300
	P110D	L110D	4	300	350x670x1280	V	✗	✓	✓	✓	900x1970	1600
Series	P210	L210	4	370	660x700x800	V	✓	✗	✓	✓	1200x1905	1450
	P215	L215	6	485	660x700x1050	V	✓	✗	✓	✓	1200x1905	1700
	P221	L221	8	600	660x700x1300	V	✓	✗	✓	✓	1200x1905	1950
	P228	L228	10	715	660x700x1550	V	✓	✗	✓	✓	1200x1905	2200
	P232	L232	12	830	660x700x1800	V	✓	✗	✓	✓	1200x1905	2450
	P210D	L210D	6	480	660x700x1045	V	✗	✓	✓	✓	1200x1905	1415
	P215D	L215D	8	610	660x700x1325	V	✗	✓	✓	✓	1200x1905	1695
	P221D	L221D	10	740	660x700x1605	V	✗	✓	✓	✓	1200x1905	1975
	P228D	L228D	12	870	660x700x1885	V	✗	✓	✓	✓	1200x1905	2255
Series	P314	L314	6	550	660x1050x800	H	✓	✗	✓	✓	1600x1905	1440
	P321	L321	9	725	660x1050x1050	H	✓	✗	✓	✓	1600x1905	1690
	P328	L328	12	900	660x1050x1300	H	✓	✗	✓	✓	1600x1905	1940
	P332	L332	15	1075	660x1050x1550	H	✓	✗	✓	✓	1600x1905	2190
	P338	L338	15	1250	660x1050x1800	H	✓	✗	✓	✓	1600x1905	2440
	P342	L342	18	1420	660x1050x2050	H	✓	✗	✓	✓	1600x1905	2690
	P321D	L321D	9	725	660x1050x1045	H	✓	✗	✓	✓	1600x1905	1445
	P328D	L328D	12	920	660x1050x1325	H	✗	✓	✓	✓	1600x1905	1695
	P332D	L332D	15	1110	660x1050x1605	H	✗	✓	✓	✓	1600x1905	1945
	P338D	L338D	18	1305	660x1050x1885	H	✗	✓	✓	✓	1600x1905	2195
	P342D	L342D	21	1500	660x1050x2165	H	✗	✓	✓	✓	1600x1905	2445
Series	P440	L440	12	1070	680x1570x1000	H	✗	✓	✓	✓	2100x1930	2040
	P450	L450	16	1410	680x1570x1320	H	✓	✗	✓	✓	2100x1930	2360
	P460	L460	20	1750	680x1570x1640	H	✓	✗	✓	✓	2100x1930	2680
	P470	L470	24	2090	680x1570x1960	H	✓	✗	✓	✓	2100x1930	3000
	P440D	L440D	12	1290	680x1570x1210	H	✓	✗	✓	✓	2100x1930	1750
	P450D	L450D	16	1630	680x1570x1530	H	✗	✓	✗	✓	2100x1930	2070
	P460D	L460D	20	1980	680x1570x1850	H	✗	✓	✓	✓	2100x1930	2390
	P470D	L470D	24	2320	680x1570x2170	H	✗	✓	✓	✓	2100x1930	2710
Series	P555	L555	16	1660	900x1400x1320	H	✗	✓	✓	✓	2500x1750	1590
	P570	L570	20	2070	900x1400x1640	H	✓	✗	✓	✓	2500x1750	1910
	P585	L585	24	2470	900x1400x1960	H	✓	✗	✓	✓	2500x1750	2230
	P5100	L5100	28	2870	900x1400x2280	H	✓	✗	✓	✓	2500x1750	2550
	P555D	L555D	12	1520	900x1400x1210	H	✓	✗	✓	✓	2500x1750	1750
	P570D	L570D	16	1930	900x1400x1530	H	✗	✓	✗	✓	2500x1750	2070
	P585D	L585D	20	2330	900x1400x1850	H	✗	✓	✓	✓	2500x1750	2390
	P5100D	L5100D	24	2730	900x1400x2170	H	✗	✓	✓	✓	2500x1750	2710
							✗	✓	✓	✓		

Front view



Single ended plan view