

Quality Compliance

Quality System

- EN ISO 13485 - Quality Management System (Medical Devices)
- EN ISO 9001 - Quality Management Systems
- EN ISO 14001 - Environmental Management Systems
- EN ISO 45001 - OH&S Management Systems

Pressure Vessels Construction

- 2014/68/EU (Module B+D+D1) - Pressure Equipment Directive
- EN 13445 - Unfired Pressure Vessels
- EN 14222 - Stainless Steel Shell Boilers

EMC, LVD & Safety

- EN 60601-1-2 - EMC Requirements for Medical Devices
- EN 61326-1 - EMC Requirements for Laboratory Devices
- EN 60601-1 - LVD Requirements for Medical Devices
- EN 61010-1 - LVD Requirements for Laboratory Devices
- EN 61010-2-40 - Safety requirements for Sterilizers
- EN 60601-1-8 - Safety of Medical Electrical Equipment (Alarms)
- EN 60204-1 - Safety of Machinery
- EN 61000-4-3 - Immunity to RF Wireless Communications

Wide Selection of Optional Features & Accessories

It is possible to add one of many options & accessories from which some are listed below to your steam sterilizer.

- Auto-blowdown for Generator / Desalination
- Degassing System
- 10" Videographic Touchscreen
- GSM Connection Module
- Barcode Reader
- Dual Channel Chart Recorder
- Dual Steam Generation
- Fixed & Adjustable Height Transport Trolley
- Loading Trolley / Shelf System
- Automatic Loader / Unloader
- Complete RO System
- Silent Air Compressor



Directive, Guidelines & Technical Standards

- 93/42/EEC (amended in Directive 2007/47/EC) – Medical Devices Directive
- EN 285 - Sterilization (Steam Sterilizers)
- EN ISO 17665-1 - Sterilization of Healthcare Products (Validation)
- 2006/42/EC - Machinery Directive
- 2014/35/EU - Low Voltage Directive
- 2014/30/EU - Electromagnetic Compatibility Directive

Environmental Directives

- 2002/95/EC - RoHS
- 2011/65/EU - RoHSII
- 2002/96/EC - WEEE

Other

- EN 62304 - Medical Device Software
- EN ISO 14971 - Risk Management of Medical Devices
- EN 60601-1-6 - Usability of Medical Devices
- EN 15223-1 - Symbols Used in Medical Devices
- EN 1041 - Information Supplied for Medical Devices
- EN 62366-1 - Application of Usability
- IEC 60529 - Degrees of Protection Provided by Enclosures (IPX4)

PLUSTEAM SERIES STEAM STERILIZERS

MODEL	REFERENCE NO	DIMENSIONS (W x D x H)	CAPACITY (L)	CAPACITY (STU)	DOOR FORMATION
PLUSTEAM 1S	511001	390 x 670 x 390 mm.	102	1	SINGLE MANUAL SLIDING
	511023	390 x 670 x 390 mm.	102	1	SINGLE AUTOMATIC SLIDING
	511027	390 x 670 x 390 mm.	102	1	SINGLE HINGED
	511012	390 x 790 x 390 mm.	120	1	DOUBLE MANUAL SLIDING
	511025	390 x 790 x 390 mm.	120	1	DOUBLE AUTOMATIC SLIDING
	511038	390 x 790 x 390 mm.	120	1	DOUBLE HINGED DOORS
PLUSTEAM 1M	511002	390 x 1050 x 390 mm.	160	1,5	SINGLE MANUAL SLIDING
	511024	390 x 1050 x 390 mm.	160	1,5	SINGLE AUTOMATIC SLIDING
	511028	390 x 1050 x 390 mm.	160	1,5	SINGLE HINGED
	511013	390 x 1050 x 390 mm.	160	1,5	DOUBLE MANUAL SLIDING
	511026	390 x 1050 x 390 mm.	160	1,5	DOUBLE AUTOMATIC SLIDING
	511039	390 x 1050 x 390 mm.	160	1,5	DOUBLE HINGED
PLUSTEAM 1L	511003	500 x 840 x 500 mm.	210	1,5	SINGLE AUTOMATIC SLIDING
	511049	500 x 840 x 500 mm.	210	1,5	SINGLE MANUAL SLIDING
	511029	500 x 840 x 500 mm.	210	1,5	DOUBLE HINGED
	511014	500 x 840 x 500 mm.	210	1,5	DOUBLE AUTOMATIC SLIDING
	511050	500 x 840 x 500 mm.	210	1,5	DOUBLE MANUAL SLIDING
	511040	500 x 840 x 500 mm.	210	1,5	DOUBLE HINGED
PLUSTEAM 1XL	511004	500 x 1000 x 500 mm.	250	1,5	SINGLE AUTOMATIC SLIDING
	511030	500 x 1000 x 500 mm.	250	1,5	SINGLE HINGED
	511015	500 x 1000 x 500 mm.	250	1,5	DOUBLE AUTOMATIC SLIDING
	511041	500 x 1000 x 500 mm.	250	1,5	DOUBLE HINGED
	511005	500 x 1300 x 500 mm.	325	2	SINGLE AUTOMATIC SLIDING
	511031	500 x 1300 x 500 mm.	325	2	SINGLE HINGED
PLUSTEAM 2	511016	500 x 1300 x 500 mm.	325	2	DOUBLE AUTOMATIC SLIDING
	511042	500 x 1300 x 500 mm.	325	2	DOUBLE HINGED
	511006	670 x 840 x 670 mm.	377	4	SINGLE AUTOMATIC SLIDING
PLUSTEAM 4	511032	670 x 840 x 670 mm.	377	4	SINGLE HINGED
	511017	670 x 840 x 670 mm.	377	4	DOUBLE AUTOMATIC SLIDING
	511043	670 x 840 x 670 mm.	377	4	DOUBLE HINGED
PLUSTEAM 6	511007	670 x 1003 x 670 mm.	450	6	SINGLE AUTOMATIC SLIDING
	511033	670 x 1003 x 670 mm.	450	6	SINGLE HINGED
	511018	670 x 1003 x 670 mm.	450	6	DOUBLE AUTOMATIC SLIDING
	511044	670 x 1003 x 670 mm.	450	6	DOUBLE HINGED
PLUSTEAM 8	511008	670 x 1300 x 670 mm.	584	8	SINGLE AUTOMATIC SLIDING
	511034	670 x 1300 x 670 mm.	584	8	SINGLE HINGED
	511019	670 x 1300 x 670 mm.	584	8	DOUBLE AUTOMATIC SLIDING
	511045	670 x 1300 x 670 mm.	584	8	DOUBLE HINGED
PLUSTEAM 10	511009	670 x 1600 x 670 mm.	718	10	SINGLE AUTOMATIC SLIDING
	511035	670 x 1600 x 670 mm.	718	10	SINGLE HINGED
	511020	670 x 1600 x 670 mm.	718	10	DOUBLE AUTOMATIC SLIDING
	511046	670 x 1600 x 670 mm.	718	10	DOUBLE HINGED
PLUSTEAM 12	511010	670 x 1900 x 670 mm.	853	12	SINGLE AUTOMATIC SLIDING
	511036	670 x 1900 x 670 mm.	853	12	SINGLE HINGED
	511021	670 x 1900 x 670 mm.	853	12	DOUBLE AUTOMATIC SLIDING
	511047	670 x 1900 x 670 mm.	853	12	DOUBLE HINGED
PLUSTEAM 14	511011	670 x 2200 x 670 mm.	988	14	SINGLE AUTOMATIC SLIDING
	511037	670 x 2200 x 670 mm.	988	14	SINGLE HINGED
	511022	670 x 2200 x 670 mm.	988	14	DOUBLE AUTOMATIC SLIDING
	511048	670 x 2200 x 670 mm.	988	14	DOUBLE HINGED

Our models and their specifications are given below:

* Decimal chamber volumes are rounded up to next integer value.

TBT
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Manufactures Happiness! :)

PLUSTEAM

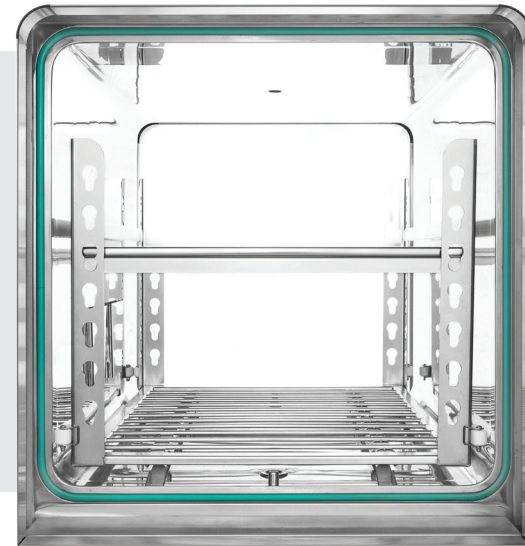
Steam Sterilizers for Medical and Laboratory Use

www.tbtmedical.com

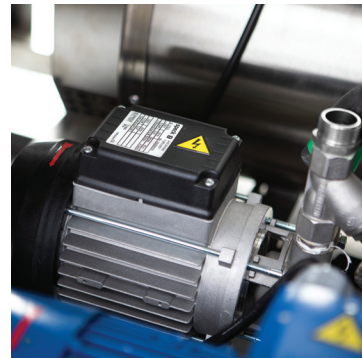
+ Robust Design for Continuous Workflow

PLUSTEAM series steam sterilizers are designed to combine stability with functionality. Proper sterilization keeps key operations and facilities running. In R.U.M.E.D. (Reprocessing Unit for Medical Devices) 100% success ratio at robustness is not a luxury but an obligation, where we based our design principles. We keep in mind your needs for a fast, robust and user-friendly sterilizer while combining it with service engineers' needs for simple & smooth design and administrative unit's all time efforts for getting all these features within an affordable budget.

Smooth panels for increased cleaning on surfaces



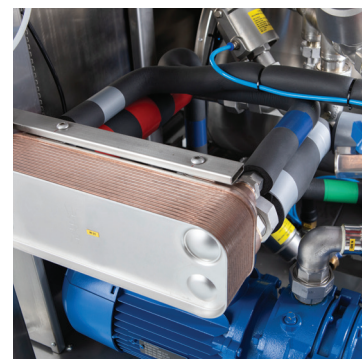
0,1 Ra polished chamber



Durability & performance in all details



AISI 304 & AISI 316 piping design with connections & components

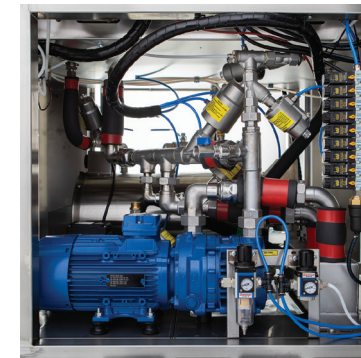


Multi-colour coded piping with isolation

+ Quality in Every Detail

PLUSTEAM series of steam sterilizers are delivered as a complete unit with components carefully chosen from Worldwide well-known brands. Chamber, jacket and generator are made of AISI 316 L quality stainless steel, while doors are from a combination of AISI 304 & AISI 316 L stainless steel for increased stability. All components are placed on a frame and dripping plate, both made of AISI 304. Isolation used to cover piping improves safety and ensures economy by reducing energy loss.

- Double stage, silent vacuum pump
- Feeder pump with mechanical seal
- Dual water connection
- AISI 316 stainless steel check valves
- AISI 304 stainless steel pneumatic valves
- Generator with 5 level safety system



Fast and energy saving cycles with dual stage silent vacuum pump



TÜV certified fixed type safety valves



Functional design in accessories



Green Shield PACS

Traditional sterilizers consume vast amount of water & electricity during vacuum generation and drain cooling. Green Shield provides environmentally-friendly solutions while reducing your operational costs.

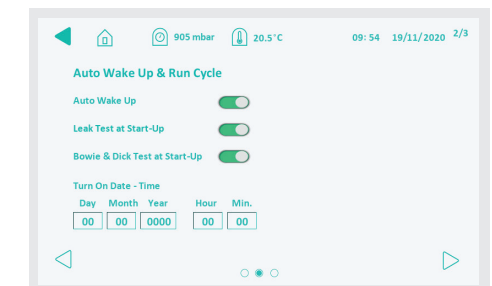
- Heat radiation recovering piping design
- Standby function & sleep mode
- Intelligent heating elements control
- Aqua EQ Heat Exchanger & Particle Assisted Cooling System (PACS) for minimized drain water saving
- Chrono Chill Recirculation System (CCR) for overall water usage

+ Easy & Effective

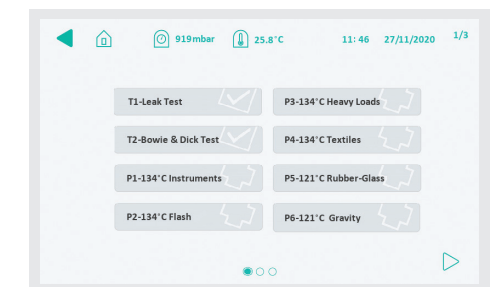
User friendly HMI, a microprocessor-controlled PLC controller through 7" Videographic Touchscreen, enables sterilization of various materials through 8 standard cycles and 100 custom cycles, where 14 of them are shortlisted for easy access. 2 test cycles (Leak Test & Bowie & Dick Test) are available.

- 7" Videographic Touchscreen on both ends (for pass-through models only!)
- High accessibility via RS 232, RS 485, USB & ethernet ports
- Increased connectivity with a remote access module
- Ability to connect third party software
- 6 level password protection
- Combination of deep & pulsed drying options
- Self-diagnosis with alarm and warning messages
- Printed, audio & visual error & warning messages
- Cycle & error log
- Brightness control & adjustment

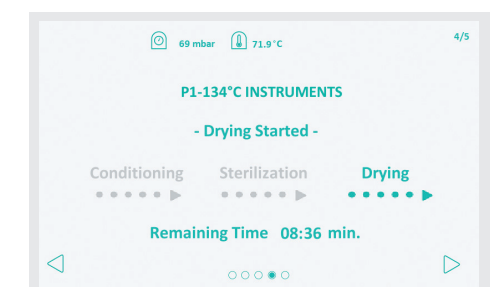
Remote service manager access & control on device via PLUSOFT Cycle & Service Manager



Auto-start function with a combination of wake up, Leak Test & Bowie & Dick/Warm-up Cycle



Iconographic cycle definitions



Easy-view function to monitor at distance