



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 4

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 986519

Procurement Type: Central Purchase Order

Vendor ID: VC0000092015

Legal Name: ALLENTOWN LLC

Alias/DBA:

Total Bid: \$71,953.69

Response Date: 01/19/2022

Response Time: 12:05

Responded By User ID: Allentown

First Name: Mark

Last Name: Marasco

Email: mmarasco@allentowninc

Phone: 6099297098

SO Doc Code: CRFQ

SO Dept: 1400

SO Doc ID: AGR2200000017

Published Date: 1/10/22

Close Date: 1/20/22

Close Time: 13:30

Status: Closed

Solicitation Description: STEAM STERILIZER

Total of Header Attachments: 4

Total of All Attachments: 4



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder: 986519
Solicitation Description: STEAM STERILIZER
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2022-01-20 13:30	SR 1400 ESR01182200000004312	1

VENDOR
 VC0000092015
 ALLENTOWN LLC

Solicitation Number: CRFQ 1400 AGR2200000017

Total Bid: 71953.69000000000232830643653 **Response Date:** 2022-01-19 **Response Time:** 12:05:03

Comments:

FOR INFORMATION CONTACT THE BUYER

Crystal G Husted
 (304) 558-2402
 crystal.g.husted@wv.gov

Vendor Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Steam Sterilizer	1.00000	EA	54348.010000	54348.01

Comm Code	Manufacturer	Specification	Model #
41000000			

Commodity Line Comments: Matachana SNA501E1 See attached documentation

Extended Description:

Steam Sterilizer

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Water Treatment System	1.00000	EA	3529.000000	3529.00

Comm Code	Manufacturer	Specification	Model #
41000000			

Commodity Line Comments:

Extended Description:

Water Treatment System

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Installation	1.00000	EA	10576.680000	10576.68

Comm Code	Manufacturer	Specification	Model #
41000000			

Commodity Line Comments:

Extended Description:

Installation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Shipping and Handling	1.00000	EA	3500.000000	3500.00

Comm Code	Manufacturer	Specification	Model #
78121603			

Commodity Line Comments:

Extended Description:

Shipping and Handling

Quote Number 00042033
Created Date 1/18/2022

Created By Russell Hugenschmidt
Created By Email rhugenschmidt@allentowninc.com

Bill To Name West Virginia Dept of Agriculture Ship To Name West Virginia Dept of Agriculture
Note Removal of existing machine to dock included in install.
RO System included in Install.

Leasing options may be available. Ask your sales representative for details.

Product Code	Product Description	Included	Unit Price	Quantity	Total Price
76366.4	Sterilizer SNA501E1, ESG, 1 Door	<input type="checkbox"/>	USD 46,634.54	1.00	USD 46,634.54
86500.4	Set of Side Panes (SNA501)	<input type="checkbox"/>	USD 895.32	1.00	USD 895.32
78654.1	OPEN LIQUIDS PROGRAM	<input type="checkbox"/>	USD 2,645.24	1.00	USD 2,645.24
78514.5	Drain Cooling Kit to 140F	<input type="checkbox"/>	USD 543.74	1.00	USD 543.74
75500.2	Coupling Kit	<input type="checkbox"/>	USD 75.49	1.00	USD 75.49
75006.6	Loading Cart (SNA501)	<input type="checkbox"/>	USD 1,877.79	1.00	USD 1,877.79
75600	Fixed Height Transfer Trolley (SNA501)	<input type="checkbox"/>	USD 1,675.89	1.00	USD 1,675.89
CEDINSTALL-TII	CAPITAL EQUIPMENT DIVISION INSTALLATION, TYPE II: "MODIFIED TURN-KEY", NON-UNION LABOR SEE ATTACHED DETAILED SPECIFICATION	<input type="checkbox"/>	USD 14,105.88	1.00	USD 14,105.88
FREIGHT/TRANSPORTATION	FREIGHT/TRANSPORTATION	<input type="checkbox"/>	USD 3,500.00	1.00	USD 3,500.00

Total Price USD 71,953.89
Grand Total USD 71,953.89

See Attached Terms and Conditions



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote
Laboratory

Proc Folder: 986519		Reason for Modification:	
Doc Description: STEAM STERILIZER		ADDENDUM 1 TO PROVIDE ANSWERS TO VENDOR QUESTIONS	
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-01-10	2022-01-20 13:30	CRFQ 1400 AGR2200000017	2

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: VC0000092015

Vendor Name : Allentown LLC

Address :

Street : 165 Route 526

City : Allentown

State : NJ

Country : USA

Zip : 08501

Principal Contact : Russell Hugenschmidt

Vendor Contact Phone: 484-888-2490

Extension:

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead
(304) 558-2402
crystal.g.hustead@wv.gov

**Vendor
Signature X**

DocuSigned by:
David R. Carmignani
30BD7DF63964461...

FEIN# 84-2610739

DATE 1/19/2022

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA DEPARTMENT OF AGRICULTURE, ANIMAL HEALTH DIVISION, IS SOLICITING BIDS TO ESTABLISH A CONTRACT FOR THE ONE-TIME PURCHASE OF LABORATORY STEAM STERILIZER WITH WATER TREATMENT SYSTEM AND INSTALLATION PER THE ATTACHED DOCUMENTS.

QUESTIONS REGARDING THE SOLICITATION MUST BE SUBMITTED IN WRITING TO CRYSTAL.G.HUSTEAD@WV.GOV PRIOR TO THE QUESTION PERIOD DEADLINE CONTAINED IN THE INSTRUCTIONS TO VENDORS SUBMITTING BIDS

INVOICE TO		SHIP TO	
AGRICULTURE DEPARTMENT OF ADMINISTRATIVE SERVICES 1900 KANAWHA BLVD E CHARLESTON WV US		AGRICULTURE DEPARTMENT OF MOOREFIELD FIELD OFFICE 60B INDUSTRIAL PARK RD MOOREFIELD WV US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Steam Sterilizer	1.00000	EA	\$54,348.01	\$54,348.01

Comm Code	Manufacturer	Specification	Model #
41000000	Matachana	see attached	SNA501E1

Extended Description:
Steam Sterilizer

INVOICE TO		SHIP TO	
AGRICULTURE DEPARTMENT OF ADMINISTRATIVE SERVICES 1900 KANAWHA BLVD E CHARLESTON WV US		AGRICULTURE DEPARTMENT OF MOOREFIELD FIELD OFFICE 60B INDUSTRIAL PARK RD MOOREFIELD WV US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Water Treatment System	1.00000	EA	\$3,529.00	\$3,529.00

Comm Code	Manufacturer	Specification	Model #
41000000	N/A		

Extended Description:
Water Treatment System

INVOICE TO		SHIP TO	
AGRICULTURE DEPARTMENT OF ADMINISTRATIVE SERVICES 1900 KANAWHA BLVD E CHARLESTON US	WV	AGRICULTURE DEPARTMENT OF MOOREFIELD FIELD OFFICE 60B INDUSTRIAL PARK RD MOOREFIELD US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Installation	1.00000	EA	\$10,576.88	\$10,576.88

Comm Code	Manufacturer	Specification	Model #
41000000	N/A		

Extended Description:

Installation

INVOICE TO		SHIP TO	
AGRICULTURE DEPARTMENT OF ADMINISTRATIVE SERVICES 1900 KANAWHA BLVD E CHARLESTON US	WV	AGRICULTURE DEPARTMENT OF MOOREFIELD FIELD OFFICE 60B INDUSTRIAL PARK RD MOOREFIELD US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Shipping and Handling	1.00000	EA	\$3,500.00	\$3,500.00

Comm Code	Manufacturer	Specification	Model #
78121603	N/A		

Extended Description:

Shipping and Handling

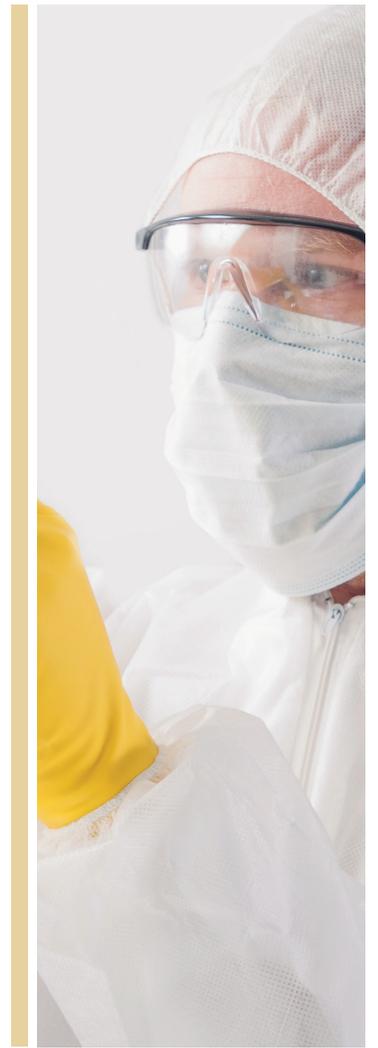
SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	VENDOR QUESTION DEADLINE	2022-01-07

	Document Phase	Document Description	Page
AGR220000017	Final	STEAM STERILIZER	4

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Small Steam Sterilizers
Matachana SNA500 I

The sterilizers are designed and manufactured using the latest technologies available in the market to achieve the best results in terms of energy savings and reducing water consumption. An example is the steam generator (in the devices fitted with it), which has an **integrated “smart” economizer system**. It is fully controlled by the sterilizer’s CPU, so that the right amount of steam for the program is produced, adapting to the needs of pressure and temperature of the program selected and run. It is specifically designed to let in the appropriate water volume in the generator and at the right time of the cycle to minimize the consumption of treated water and power of the generator.



Stainless steel front panel type 304

Features

- Chamber and jacket made of high quality stainless steel type 316L.
- Pneumatic sliding vertical door/s, built in stainless steel type 316L.
- Front panel, hinged door type to improve access for service and with rounded edges for easy cleaning.
- Chamber and steam pressure gauges on the loading area frontal.
- Chamber gauge on the unloading area frontal (2 door option).
- Vacuum system by means of ejector-venturi, silent with water-saving closed loop. (Option: Liquid Ring Vacuum Pump)
 - Saves water vs. traditional vacuum pump and other venturi systems
 - Lifetime guarantee, no moving parts
- Circuits in contact with steam made of stainless steel type 316L.
- Pneumatic Piston Valves.
- Control system through two PLC (control and register) which ensures independent readings (temperature/pressure).
- Equipped with appropriate systems for viewing and printing parameters of process development.
- Non-Proprietary Controls and Components.
- Automatic Start / Stop Feature.
- Alphanumerical digital printer for “on site” cycle documented record.
- Validation ports for temperature and pressure.
- Standard programs:
 - Vacuum test and B&D test programs.
 - Sterilization programs for solid material, with adjustable temperature between 239 and 275 °F (115 and 135 °C).
 - Sterilization programs for liquids in non-hermetically sealed containers, with adjustable temperature between 220 and 275 °F (105 and 135 °C), as well as “Fo” value calculation.
 - Gravity program.

Models	NA500V-1 NA500E-1		NA500V-2 NA500E-2		NA501V-1 NA501E-1		NA501V-2 NA501E-2		NA502V-1 NA502E-1		NA502V-2 NA502E-2	
	in	mm										
Technical specifications												
Chamber dimensions ^(*)												
Width	20	500	20	500	20	500	20	500	20	500	20	500
Height	20	500	20	500	20	500	20	500	20	500	20	500
Depth	27	675	27	675	40	1020	40	1020	51	1300	51	1300
Overall dimensions												
Width	35	900	35	900	35	900	35	900	35	900	35	900
Height	72	1824	72	1824	72	1824	72	1824	72	1824	72	1824
Depth	39	995	40	1009	53	1342	53	1355	64	1622	64	1635
	cu.ft	l										
Chamber volume	6	167	6	167	9	252	9	252	11	321	11	321
Power (kW)												
Without steam generator (V models)	2		2		2		2		2		2	
With steam generator (E models)	21		21		21		21		21		21	

(*) MATACHANA offers the possibility to adapt the chamber's dimensions according to customer needs.

Options

- Low temperature programs, with adjustable temperature between 158 and 219 °F (70 and 104 °C).
- Special Animal Feed Cycle for reducing the loss of proteins during the sterilization. The cycle also avoids the solidification of feed and minimize the humidity inside the bag during the process.
- Air treatment system through a 0.2 μ self sterilizable filter condensate line and condensates treatment inside the chamber, for potentially biocontaminated areas and material (ex. BSL-2, BSL-3 zones, etc.).
- Halogen gas leak tight cross contamination seals on double door units.
- Tri-Clamp Connections on all piping network to ease the services.
- Stainless steel orbital welded piping.
- VHP port connectors.
- Graphic video-recorder for pressure and temperatures.
- Connecting to external cooling system with substantial water savings and reduced cycle time.
- Natural cooling or by jacket flooding + sterile air counter pressure for Open Liquids Programs.
- 21 CFR part 11.
- Touch screen command at unloading side.
- EN 285 (applicable requirements).
- Special options: upon request.

All our sterilization equipment can be provided with options and accessories that allow maximum use of natural and energy resources (water, air, power energy and steam) with systems that enable the following connection to a distribution system by means of cool water ring from the center for recovery and cooling water vacuum system for a minimum water consumption and maximum performance of the vacuum system.

All the power of technology applied to sterilization

- Working with the sterilizer is very simple. The user operates the unit from the touch screen. From a Main Menu screen, the operator is guided through several Sub-menus, so as to perform the required operations.
- The cycle can be monitored directly from the screen, as it allows the graphical display of the process in "real time".
- The microcomputer is ready for Teleservice option ("on line" remote maintenance) and has access ports for PC connection.





MATACHANA GROUP

Innovation is the way forward

Since our foundation more than 50 years ago, our mission has been to provide the best service, bringing our knowledge and field experience to our customers to facilitate their daily work, allowing them to be efficient in the production whereas keeping rigorously the quality.

Our history has taken us from the beginnings in 1962 to the transformation in 2000 in MATACHANA GROUP, with its subsidiaries in Germany, France, Argentina, Malaysia and China, as well as the collaboration of direct distributors in over 110 countries.

In MATACHANA GROUP we are aware that Training and Service contribute decisively to achieve customer satisfaction. For this reason, we have always invested in the development of these two areas of activity, which enables a direct contact with customers and help us to develop together a continuous improvement process.

Technical Assistance Service

A service of engineers, highly skilled expert technicians and support staff, all committed to ensure the proper equipment operation and condition.

Training Academy



Committed to the responsibility to obtain the optimum operation from our equipment, in MATACHANA GROUP we invest in the training of future users.

In addition, we offer training courses regularly in the 5 continents, providing this service to all our customers.

Environmentally friendly

The sterilizers are designed and manufactured using the latest technologies on the market to achieve the best results in terms of energy savings and reduction in water consumption.

Our Production Center complies with the ISO 14001 Environmental Management System and ISO 50001 Energy Management Systems.

Quality

The MATACHANA devices are developed, manufactured and tested within a strict quality control according to the International Standard ISO 9001.





matachana

TECH DATA

Life Sciences Application

SERIES 500 STERILIZERS

20" x 20" Cross Section Lab Unit



PRODUCT

The 500 Series Steam Sterilizers from MATACHANA have been designed to cover a wide range of applications and services, and to operate continuously with maximum performance in all applications. The entire line of sterilizers operate automatically and may be equipped with 1 or 2 powered vertical sliding doors, controlled by a PLC (Programmable Logic Controller), with operator-selectable parameters and cycles. Depending on the application, the sterilizers can be installed in a pit or floor mounted with ramp(s). Different loading accessories are available.

The processes cover a wide range of applications, which include programs for: porous materials, glassware, instruments, boxes with bedding, feed, liquids (open and closed, and other types of materials). The temperature range is from 239-275 °F (115-135 °C) to process for solid materials and from 221-275 °F (105-135 °C) to process liquids.

TEST PROGRAMS

The standard test programs are as follows:

- Bowie & Dick test (B&R Test)
- Vacuum Test
- Pre-heating program PRO

5-YEAR EQUIPMENT WARRANTY

MATACHANA guarantees its equipment against all manufacturing or function defects for a period of 60 months following the installation, inclusive of all parts and labor. This is in addition to the 15 year standard pressure vessel warranty.

COMPANY STANDARDS

- ISO 9001 Quality Management
- ISO 14001 Environment Management
- ISO 50001 Energy Management

CONFIGURING THE UNIT

Use the steps described in the following pages to customize the design of your sterilizer, select the configuration boxes and options required for your project. Once you have filled out the configuration, send the document to the sales department of MATACHANA, its distributor, or its representative to receive a quote.



EQUIPMENT CONFIGURATION

CONFIGURATION

- One door
 - Recessed
 - Cabinet
- Two door (pass-through)
 - Recessed, 1 wall
 - With cabinet
 - Without cabinet
 - Recessed, 2 walls

BIOCONTAINMENT

- BSL-2
 - Air differential seal
 - Clean side
 - Dirty side
- BSL-3
 - Bioseal
 - Contaminated side (NIH recommended)
 - Uncontaminated side

STEAM SUPPLY

All units built to work with house steam. If house steam is not readily available, you may add a steam generator.

- Option: Electric steam generator**
- Option: Steam Pressure Reducing Valve (PRV)**
Limit incoming steam if pressure is > 3.1 bar.

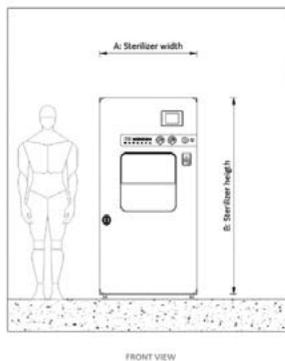
Unit comes standard with a connection for condensate return.

COMPRESSED AIR

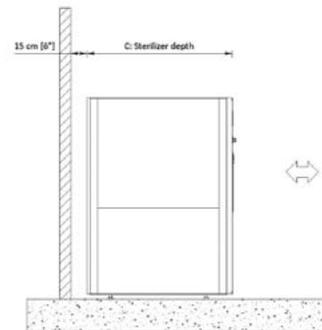
All units are built to work with house air. If not readily available, you may add an optional air compressor.

- Option: Air compressor**
- Option: Air tank back-up for door gasket**
Provides air pressure to door seals if normal air pressure falls below minimal supply pressure.

One Door

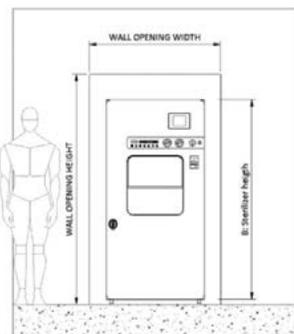


FRONT VIEW

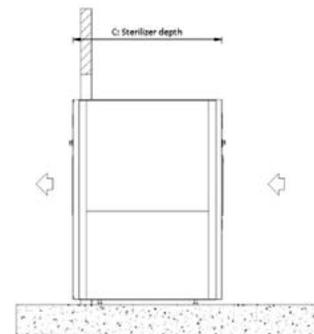


SIDE VIEW

Two Doors

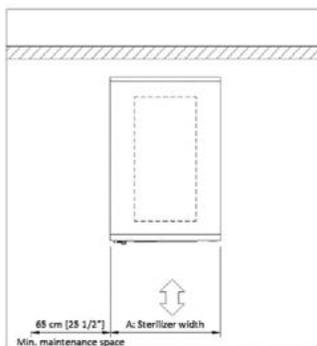


FRONT VIEW

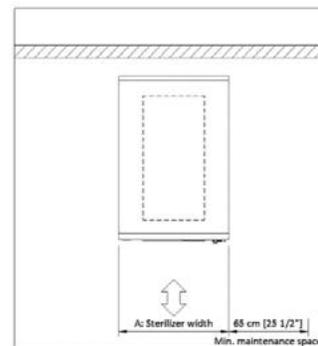


SIDE VIEW

Maintenance Side, One Door

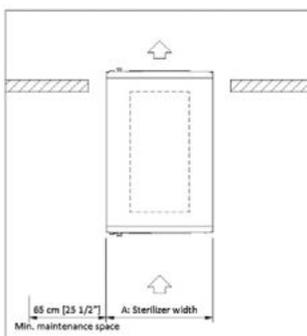


LEFT MAINTENANCE SIDE

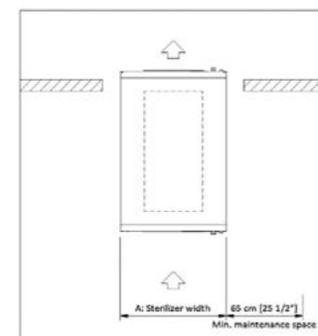


RIGHT MAINTENANCE SIDE

Maintenance Side, Two Doors



LEFT MAINTENANCE SIDE



RIGHT MAINTENANCE SIDE

DIMENSIONS

INTERNAL CHAMBER SIZES and volume - both one door and two door models

Model	Width		Height		Depth		Nominal Internal Chamber Volume	
	Inch	mm	Inch	mm	Inch	mm	Cubic ft	Liters
<input type="checkbox"/> 500	20	508	20	508	25	638	15.90	167
<input type="checkbox"/> 501	20	508	20	508	39	998	8.90	252
<input type="checkbox"/> 502	20	508	20	508	50	1296	11.34	321

OVERALL SIZES

Model	Width		Height		Depth			
	Both One Door and Two Door Models				One Door Models		Two Door Models	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
<input type="checkbox"/> 500	35-3/8	900	71-3/4	1824	39-1/8	995	39-3/4	1009
<input type="checkbox"/> 501	35-3/8	900	71-3/4	1824	52-7/8	1342	53-3/8	1355
<input type="checkbox"/> 502	35-3/8	900	71-3/4	1824	63-7/8	1622	64-3/8	1635

* Custom sizes available.

MECHANICAL CHARACTERISTICS

CHAMBER AND JACKET

The inner walls of this pressure vessel and the doors are made of high quality EN 1.4404 / AISI 316L stainless steel.

The jacket is made of high-grade stainless steel (EN 1.4301/AISI 304). Chamber insulation cladding made of polished aluminum. Chamber-jacket assembly constructed according to ASME code. The chamber floor slopes towards the drain (self-draining).

ENCLOSURE SIDE PANELS

The side panels are made of high-grade stainless steel (EN 1.4301/AISI 304).

- Right
- Left
- Back (one door models only)

SHELVING

- Fixed bottom shelf
- Removable extendable shelves
 - One shelf
 - Two shelves
 - Three shelves

DOOR SYSTEMS

All doors are equipped with safety systems and mechanical and electrical interlocking (sensors, position switches and blocks) that are managed by the sterilizer's software.

VOLTAGES & FREQUENCIES

- 208 V, 3 phase, 60 Hz
- 480V, 3 phase, 60 Hz

CONNECTION PORTS AND VALIDATION

Standard: The chamber is equipped with two welded 1-1/2" clamp connection ports to connect validation instruments in the chamber and to measure pressure, temperature and for thermometric validation of temperature distribution in the chamber.

SEISMIC RESTRICTIONS

- Seismic anchors
- Seismic calculations

VALVES AND COMPONENTS

The sterilizer's process valves are pneumatic piston valves made of high-grade stainless steel EN 1.4404/AISI 316L.

PIPING

All the steam pipes and fittings to the chamber involved in the sterilization process, including all the valves, fittings, etc., are built of high quality stainless steel. EN 1.4404/AISI 316L.

All steam pipes distributed throughout the sterilizer are insulated for thermal insulation. This prevents the risk of burns, condensation and ensures the energy efficiency of the equipment.

VACUUM SYSTEMS

S2000 sterilizers may be equipped with two different types of vacuum systems, depending on the chamber volume. The ejector vacuum system vacuum system (ejector+pressure pump) is silent, faster and consumes less power than the traditional liquid ring vacuum pump. There are no moving parts, evaporation takes place continuously and is balanced, therefore reducing process times.

** Must include water saver feature.*

- Option: Liquid ring pump vacuum system**
2000 series sterilizers can be equipped with a high-efficiency liquid ring vacuum pump.

CYCLES

- Vacuum (standard)
- Gravity (standard)

- Option: Liquid**
Includes load temperature probe. Place probe in product during sterilization cycle for controlling and monitoring purposes.
- Option: Air-over-pressure with jacket cooling**
- Option: Effluent decontamination**
For BSL-3 applications

- Option: Effluent decontamination with air decontamination system**
For BSL-3 applications

LOAD TEMPERATURE PROBE

- Option: Load temperature probe**
Place probe in product during sterilization cycle for controlling and monitoring purposes.

WATER EFFICIENCY

Drain water cooling guarantees drain at temperatures ≤ 140 °F (60 °C).

- Option: Closed loop cooling**
Connection of the water tank vacuum system to the external cooling closed circuit. (Cooler or chiller to be supplied by customer).

FLOOR SINK/DRAIN

Refer to the Standard Installation Layout for particular model chosen.

CONTROL SYSTEMS

The control system used by MATACHANA is manufactured by B&R Industrial Automation, GmbH. This equipment combines control and visualization technology, offering the user complete smart solutions that allow dynamic configurations. The configuration includes two CPUs, one is for control and the second, which acts independently, is used for monitoring.

TOUCH-SENSITIVE OPERATOR CONTROLS

The sterilizer is equipped with a 5.7" touch screen and an operator panel in the unloading area, depending on the model and user needs. There is a USB port located on the front panel for downloading processes. Control as standard on the load side.

PROCESS DATA PRINTER

All sterilizers include an alphanumeric thermal printer as standard.

CYCLE DATA DOWNLOAD

- Option: USB port for cycle data download**
Allows the operator to download cycle data in electronic TXT format from the operator interface.

COOLING SYSTEMS

Forced natural cooling is standard. An approximate 5% loss of liquid may be expected due to the cooling generated by evaporation.

- Option: Fast cooling system**
Fast cooling by water in jacket and sterile air counter-pressure in the chamber. This option reduces liquid loss to below 1% (see details in the programs description).
- Option: Switch key lock**
The switch key lock is located on the front panel beside the main display for selection of either solid or liquid programs.

INSTALLATION/START UP

MATACHANA's technical service carries out a series of BASIC acceptance tests as a standard service consisting of inspection, installation and commissioning protocol, including:

- Verification of the positioning of the unit, according to the installation drawings
- Startup verification
- Verification of alarm functioning – one of each type
- Verification of test and production cycles
- Verification of quality of water, steam, air, electricity, drainage, ventilation supplies, etc.
- Training of the maintenance team and users
- Evaluation of the customer's level of satisfaction with our Technical Service (SAT in regard to the installation and commissioning

DOCUMENTATION

One copy of the following documentation is delivered as standard with each sterilizer:

- User and maintenance manual
- Certifications
- Technical information and drawings
- Delivery to the client of the complete standard tests protocol, safety and calibration performed by our factory testing bench.
- Quality documentation of the pressure vessels, which includes the following:

Remarks: The test, safety & calibration protocols are stored in our facilities for the entire life span of the sterilizer.

- Option: Delivery of additional standard documentation** in hard copy.

Quantity requested: _____

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL & NATIONAL CODES & REGULATIONS

OPTIONAL ACCESSORIES

- Transfer trolley, qty: _____
- Loading cart, qty: _____
- Fixed rack and shelves, qty: _____
- Spare parts kit

UTILITY REQUIREMENTS

STEAM

- NPT male
- 40 ±5 psig (2.8 ±0.3 bar)
- 97-100% vapor quality

DRAIN

- 2-1/2" ODT gravity discharge

FEED WATER (FACILITY SUPPLIED)

- NPT male
- 14-45 psig (1-3 bar)
- 68 °F (20 °C) max.
- pH 7
- 125 ppm CaCO₃ (max. hardness)
- Water is used for vacuum pump sealing, drain cooling and jacket cooling.

COOLING WATER SAVINGS PACKAGE (OPTIONAL)

- NPT male
- 44-87 psig (3-6 bar)
- 68 °F (20 °C) max.
- ΔT is approximately 59 °F (15 °C)
- ΔP is approximately 15 psig (1 bar)
- Water is used for cooling of vacuum pump & drain.

COMPRESSED AIR

- NPT male
- 73-120 psig (5-8 bar)

CHAMBER SAFETY RELIEF

- NPT male
- 45 psig (3.1 bar) max.

JACKET SAFETY RELIEF

- NPT male
- 45 psig (3.1 bar) max.

ELECTRICITY OPTIONS FOR STERILIZER

- 208 V, 3 Phase, 60 Hz
- 240 V, 3 Phase, 60 Hz
- 480 V, 3 Phase, 60 Hz

HEAT DISSIPATION IN INTERMEDIATE ZONE

- Heat loss ranges from .3 BTU/hr (250 kcal/h) in smaller models to .5 BTU/hr (410 kcal/h) in the largest models.

NOTES

1. Utility connection sizes and flow rates are dependent on the chamber size selected. Refer to MATACHANA equipment and installation drawings for details.
2. Dry, oil free, compressed air is required.
3. The drain line should have a 2" (51 mm) air-gap to prevent backflow.
4. The pipe sizes shown indicate terminal outlets only. Building service lines, not provided by MATACHANA, must supply the specified pressures and flow rates.
5. A non-fused, pad-lockable disconnect switch is provided with the sterilizer. A fused disconnect next to the unit is recommended per local codes.*
6. Recommended drain is 12 x 12 x 11-3/4" (305 x 305 x 299 mm) floor sink with 4" (102 mm) drain pipe. Top plate must have 3" (76 mm) hole centered over drain. Drain pipe should be suitable for 140 °F (60 °C). High temperature drain piping is recommended.
7. Pit should have 2 x 2 x 3/16" (51 x 51 x 5 mm) stainless-steel angle around the perimeter.†
8. Bioseal shall have stainless-steel in-beds installed in the wall for welded angle frame assembly.‡
9. Additional pipes or structures should not be placed in the service area. MATACHANA must be consulted for this situation.
10. All engineering data subject to constant updates. Consult factory prior to final layout.

* A fused disconnect is not supplied or installed by MATACHANA. A non-fused, pad-lockable disconnect switch is provided with the sterilizer.

† A pit angle frame is not supplied or installed by MATACHANA.

‡ Bioseal wall in-beds are not supplied or installed by MATACHANA.

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CONTENTS

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