

STEAM STERILIZER

Operation Manual

STE-TIN/TAN



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Thank you for choosing this Steam Sterilizer.

Please read the instructions manual carefully in order to install the equipment and operate the equipment in an efficient manner.

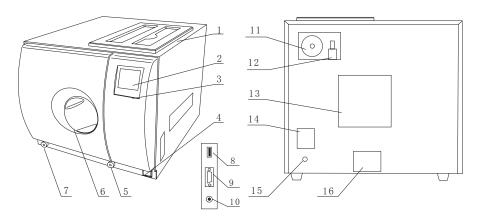
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1 General

This sterilizer described in this manual is intended for the sterilization of re-useable surgical instruments and material.

It operates automatically with 134° C and 121° C sterilization temperatures. It has been produced in accordance with the EN 13060.



- 1 Distilled water tank
- 2 LCD screen
- 3 Control panel
- 4 Main switch
- 5 Drain connector of distilled water tank
- 6 Door handle
- 7 Drain connector of used water tank
- 8 USB port (optional)

- 9 Printer port10 Printer power
- 11 Bacteriological filter
- 12 Safety valve
- 13 Condenser ventilation
- 14 Circuit breaker
- 15 Power supply cord
- 16 Rating plate

Security Notice

In order to proper use the sterilizer, please be sure to read the warning and attention carefully for safety.



This symbol is grounding protection inside the machine.



HOT SURFACE.

This symbol is visible on the front of the panel after open the door.



Important safety information.

This symbol is used to draw the attention of the reader to particularly important notions for operator safety.

2 Technical Parameter

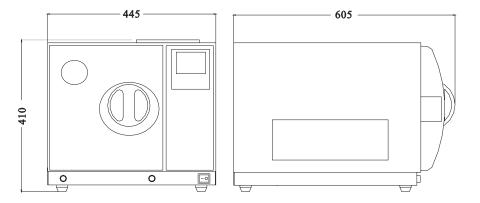
Item	12	16			
Chamber	Ф200mmX360mm	Ф230mmX360mm			
Rated Voltage	AC220V-240V(AC110V-130V), 50-60Hz				
Main Fuses	F16A/250V(F25A/250V for 110V)				
Nominal power (CLASS B)	2000VA				
Nominal power (CLASS N)	1900	V A			
Sterilization Temperature	121°C/134°C				
Capacity of the distilled	Approx 2.5L (water at level MAX)				
water tank	Approx 0.5L (water at level MIN)				
Operation temperature	5 - 4	0℃			
Outside size	445mm(width)X 410mm((height)X 605mm(depth)			
Net weight (CLASS B)	41kg	45kg			
Net weight (CLASS N)	39kg	43kg			
Noise	<70dB				
Relative Humidity	max. 80%, non condensing				
Atmospheric pressure	76kPa -106kPa				

3 Packing Content

No.	Item	Quantity
1	Steam sterilizer	1
2	Instrument tray	2
3	Instrument tray rack	1
4	Instrument tray handle	1
5	Door adjustment tool	1
6	Draining hose	2
7	Instructions manual	1
8	Door seal	1

4 Installation

- * There must leaves 10cm gap around sterilizer, and 20cm on top side. the clearance required for the movement of the door: leave an at least 350mm fan-shaped space in front of the door.
- * The place which sterilizer located must be ventilated, make sure that the radiator not being jammed.
- * The sterilizer should be placed on a level worktable.
- * Don't cover or block the door, ventilation or radiation openings on the sterilizer.
- * Don't place the sterilizer near a sink or in a location where it is likely to be splashed.
- * Keep away from all sources of heat.



5 Operation

5.1 Ready

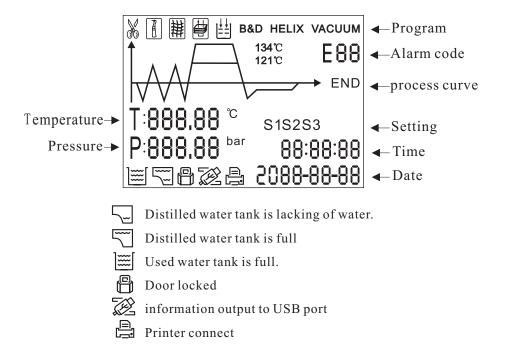
- 5.1.1 Open the door and take out all the instrument tray and other accessories inside, unpack and clean them.
- 5.1.2 Connect the power, and connect the printer (See 6.5)
- 5.1.3 Power on

The switch is located underneath the control panel on the front side of the machine.

After switching on, the machine turns on the LCD . Then it will show the door position, water level, working program, date, time and etc. .



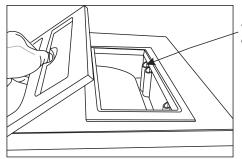
The machine will alert by beep sounds if there are problems.



Notice: Before using the sterilizer at the first start-up or any time the icon blink, it is necessary to fill the distilled water tank with distilled water.

5.1.4 Filling the distilled water

Open the top lid, and fill the tank with distilled water by cup or tank. When you hear a beep signal, it means the water level exceeds the max. level. The [57] will be displayed. Please stop filling immediately.



The water level should not exceeded this port.

5.2 Preparing the material to be sterilized

To get the better effectiveness of the sterilization process and to preserve the material in time, follow the indications below reported.

- * Arrange the tools of different metal (stainless steel, moderate steel, aluminum, etc.) on different trays or however well separate between them;
- * In case of not stainless steel tools, interpose a sterilization paper napkin or muslin cloth between tray and tool, avoiding direct contacts between the two different materials;
- * Verify all the tools are sterilized in open position;
- * Arrange the containers (glasses, cups, test-tubes, etc.) on one side or inverted position, avoiding possible water stagnation;
- * Don't overload the trays over the stated limit (see Appendix 1).
- * Don't stack the trays one above the other or put them in direct contact with the walls of the sterilization chamber.
- * Always use the instrument tray handle.
- * Wrap the tools one by one or, if more tools have to be set in the same wrap, verify that they are of the same metal;
- *Seal the wrap with sterilization adhesive ribbon or by a thermal sealer.
- * Don't use metallic clips, pins or other, as this jeopardizes the maintenance of the sterility;

* Turn the sterilization paper in order to set the plastic part downward (tray side) and the paper part upward.



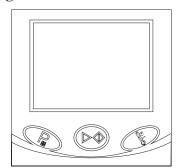
Always wrap the tools in case of prolonged store.

5.3 Selecting the sterilization program

5.3.1 LCD

It displays the cycle temperature, pressure, error code, sterilization state and program.

- 5.3.2 temperature button Select temperature of sterilization.
- 5.3.3 Program button
 Select program of sterilization.

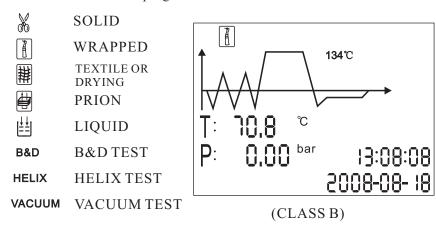


5.3.4 START/STOP button

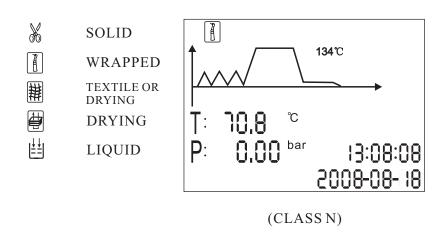
Press this button to start the sterilization cycle, holding this button above 3 seconds to stop the cycle.

5.3.5 Select the program

Press TEMP button to select the temperature. And press PROGRAM button to select the program.

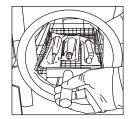


Notice: The button will be locked for 10 seconds after you switch on. It initializes its system and check the states during that time.



5.4 Running the sterilization program.

After selecting program, put the instruments into the chamber by tray handle.



5.4.1 After the instruments are loaded, you may close and lock the door by turning the door handle clockwise until it stops.

The icon will be lightened.

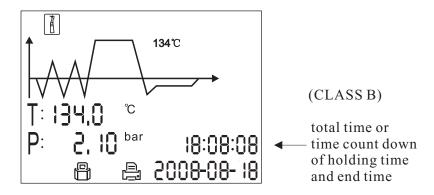


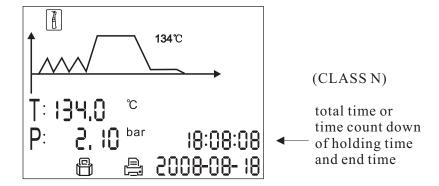


Caution: You must turn the door handle to the maximum position, otherwise the machine will alarm and stop working during the cycle.

5.4.2 Start the sterilization program.

Press START button the machine will begin the cycle automatically. It will take 30-75 minutes. (See Appendix 2)



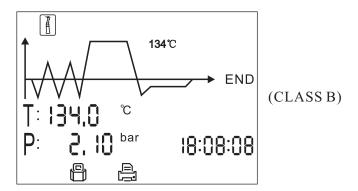


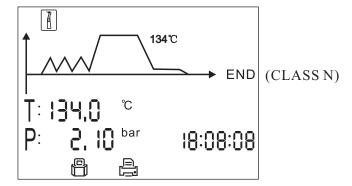
Caution: When you press the "START" button but the door have not to be closed. You will see the blinks on the screen, You can not start a cycle until you close the door to the max. position and press the "Start" button again.

5.4.3 Sterilization cycle completion

After a cycle is completed, the printer will start work and print the report of the sterilization cycle data.(if you connect the printer)

After the pressure is 0, you may open the door, and take out the sterilized instruments.







Always use the tray handle to load or unload the tray in order to avoid scald.

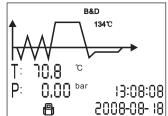
If you need the instrument urgently. You may set the drying time to 0. It will skip the drying stage.

Or you may holding the START button for 3 seconds after finish the holding time and the pressure is 0.

The program will go directly to the last step and skip the drying stage. After one minute later it will show END.

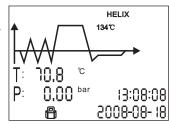
5.5 Test programs (CLASS B)

- 5.5.1 Press PROGRAM button, select the "B&D TEST".
- 5.5.1.1 Put the Bowie-Dick pack into the chamber. Then close the door and press "START".
- 5.5.1.2 After finish the cycle you check the indicator. And evaluate the result.



5.5.2 Select the "HELIX TEST"

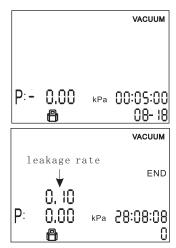
- 5.5.2.1 Put the indicator paper in the capsule.
- 5.5.2.2 Put the Helix tube into the chamber. Then close the door and press "START".
- 5.5.2.3 After finish the cycle you check the indicator. And evaluate the result.

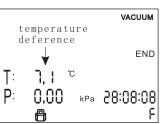


5.5.3Select the "VACUUM TEST"

- 5.5.3.1 Then close the door and press "START" button.
- 5.5.3.2 After finish it will show the result.
- 5.5.3.3 In compliance with EN 13060, the test requires the air leakage rate less than or equal 0.13kPa/min during the 10 minutes. If the leakage rate is not greater 0.13, it will show 0 means success. Or it will show F means failure.
- 5.5.3.4 If the temperature deference between the max. temperature and the min. temperature is above 3, it will show the value T on the screen and show F. That means the result of test is void. You need run the vacuum test again after the chamber has cooled down.

temperature deference Caution: The VACUUM TEST must be $^{\circ}$ carried out with unit cold. If the Tp is greater 3°C, it will show failure.





6 Advanced Setting

6.1 Enter the setting

- 6.1.1 Holding the START button and open the main switch. After about 5 seconds it will enter the setting screen.
- 6.1.2 Select the state by press PROGRAM button The state you selected will glitter. Press the START button to enter the setting.



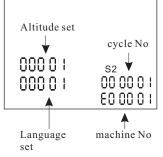
6.2 S1 state

If you select the S1 and enter the state. You may change the unit of temperature and pressure, adjust time and date.

- 6.2.1 You will select the unit of temperature first Press TEMP button to select °C or °F. The unit you select ed will be lighted. Press the PROGRAM button to the next item.
- T:888,88 ° P:888.88 bar 13:08:08 2008-08-18
- 6.2.2 You may set the pressure unit as the same method.
- 6.2.3 Then press PROGRAM button to the next item to adjust the time and date. After the last word of the date or time is set, then the data is permitted to be saved. If you want to finish the setting you shall press START. It will return to the screen of selecting states.

6.3 S2 state

- 6.3.1 You may check the count of sterilization cycle. It can not be changed by operator.
- 6.3.2 Set the parameter for high altitude. If you can't enter the holding time and use this machine at a high altitude place that is above 2.0 kilometers or atmospheric pressure is below 80kPa you need set the parameter. The scope is $0\sim2$.



- 6.3.3 Language set:
 - 00 English 01 German 02 Spanish 03 Polish 04 French 05 Magyar
 - 06 Romanian 07 Dutch 08 Lithuanian 09 Latvian



If use this sterilizer on a place above 2 km, you need to reevaluate the sterilization result. And you may correct the effect by prolong the holding time.



The Machine No. And cycle No can not be set by the operator.

6.4 S3 state

6.4.1 Adjust the holding time of sterilization and drying time.

Press PROGRAM button to select the program. () Press TEMP button to select the temperature of program.

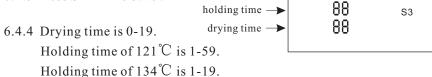
134°C

Then press START to adjust the drying time and holding time.

6.4.2 First to adjust the holding time.

Press TEMP button to adjust the data. Press the PROGRAM button to select the items.

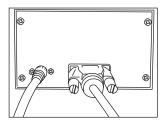
6.4.3 Press START to save.

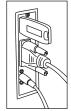


Notice: We don't suggest the operator to adjust the parameter of sterilization if it is not necessary.

6.5 Printer (Optional)

- 6.5.1 Connect the printer cable.
- 6.5.2 Connect the printer power.





6.6 USB Flash memory (Optional)

Insert the USB stick to the slot.

The information will output to USB stick after the cycle finish. The name of the file is according to the number of machine and

the cycle number.

For example:

The machine number is E00001.

The cycle number is 00012.

The file name in the USB stick is 01001200. txt.

The first two numbers represent machine number.

The middle four numbers represent cycle number.

The last two numbers represent error code.

00:no error:01: error E01

6.7 Record of the cycle

Select to this interface by PROGRAM button.

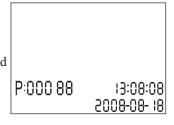
It will show cycle No. .

Select the different cycle No. by press

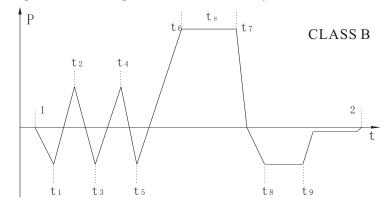
TEMP button.

It will output the information to printer and USB port after you press START button.

It can be stored the last 20 records.



The sample of content of print and files in memory as below:



Program: WRAPPED Temperature: 134°C Pressure: 210.0 kPa Dry Time: 03Min Ster Time: 4.0Min

time temp. pressure Start 15:24:20 042.0℃ T1: 15:32:11 040.0°C -78.2kPa T2: 15:36:08 105.3℃ 052.7kPa T3: 15:39:21 061.3℃ -80.4kPa

T4: 15:44:32 110.3℃ 051.6kPa T5: 15:47:12 067.0°C -80.4kPa T6: 16:00:11 135.2℃ 220.3kPa

134.8°C 221.6kPa TS: MAX.Temperature:135.5℃ MIN. Temperature: 134.1 °C MAX.Pressure:230.4kPa

T7: 16:04:02 135.0°C 223.5kPa T8: 16:06:32 92.8°C -60.1kPa

T9: 16:09:22 90.4°C -60.1kPa

End 16:14:12 78.2℃

MIN.Pressure:212.9kPa

_____ Cycle No: 0005

Ster Value: Success Date: 2011-01-18 SN:E00001

Operator:

Program: Vacuum test

Tp: 1℃ P1: -70.0kPa P2: -69.0kPa

rate of pressure rise: 0.10

Start Time: 08:22 End Time: 09:01 Date: 2011-01-18 Cvcle No.:0001 Test Value: Success

SN: E00001 Operator:

Program: WRAPPED Temperature: 134°C Pressure: 210.0 kPa Dry Time: 03Min Ster Time: 4.0Min

time temp. pressure Start 17:34:20 042.0℃

T1: 17:42:11 040.0°C -78.2kPa T2: 17:46:08 105.3°C 52.7kPa T3: 17:49:21 061.3℃ -80.4kPa T4: 17:54:32 110.3℃ 51.6kPa T5: 00:00:00 000.0°C 000.0kPa T6: 00:00:00 000.0°C 000.0kPa 000.0°C 000.0kPa TS:

MAX.Temperature:000.0°C MIN.Temperature:000.0℃ MAX.Pressure:000.0kPa MIN.Pressure:000.0kPa

T7: 00:00:00 000.0℃ 000.0kPa T8: 00:00:00 000.0℃ 000.0kPa T9: 00:00:00 000.0°C 000.0kPa End 17:54:42 100.2°C 010.1kPa

Cycle No: 0007

Ster Value: Failure E01 Date: 2011-01-18

SN:E00001 Operator:

P t_s t8 **CLASS N** Тз t 5 t. t_2 t4

Program: WRAPPED Temperature: 134℃ Pressure: 210.0 kPa Dry Time: 03Min Ster Time: 4.0Min

time temp. pressure Start 15:24:20 042.0℃ T1: 15:32:11 070.0℃ 053.2kPa T2: 15:36:08 075.3℃ 009.7kPa

T3: 15:39:21 090.3℃ 050.4kPa T4: 15:44:32 094.3℃ 009.6kPa T5: 15:47:12 119.0°C 102.4kPa T6: 16:00:11 110.2℃ 009.3kPa TS: 134.8°C 221.6kPa

MAX.Temperature:135.1℃ MIN.Temperature:134.5℃ MAX.Pressure:230.4kPa MIN.Pressure:212.9kPa

T7: 16:04:02 135.0°C 223.5kPa T8: 16:06:32 134.8℃ 214.1kPa

End 16:14:12 78.2℃

Cycle No: 0005 Ster Value: Success Date: 2011-01-18

SN:E00001 Operator:

Program: WRAPPED Temperature: 134°C Pressure: 210.0 kPa Dry Time: 03Min Ster Time: 4.0Min

time temp. pressure

Start 17:34:20 82.0°C T1: 17:42:11 090.0℃ 052.2kPa

T2: 17:46:08 085.3℃ 009.7kPa T3: 17:49:21 108.3℃ 053.4kPa

T4: 17:54:32 100.3°C 009.6kPa T5: 00:00:00 0 00.0°C 000.0kPa

T6: 00:00:00 000.0°C 000.0kPa TS: 000.0°C 000.0kPa

MAX.Temperature:000.0°C MIN.Temperature:000.0℃ MAX.Pressure:000.0kPa

MIN.Pressure:000.0kPa T7: 00:00:00 000.0℃ 000.0kPa T8: 00:00:00 000.0°C 000.0kPa

End 17:54:42 100.2°C 010.1kPa _____

Cycle No: 0007 Ster Value: Failure E01 Date: 2011-01-18 SN:E00001

Operator: _____

7 Maintenance

Frequency	Operation			
D '1	Cleaning the door seal			
Daily	Cleaning the external surface			
Weekly	Cleaning the reservoir			
	Cleaning the chamber			
Every 3/6 monthly (depending on the use frequency)	Replacing the bacteriological filter (CLASS B)			
Every year	Replacing the door seal			

7.1 Clean the distilled water tank every week with medical disinfectant.



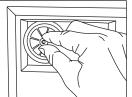
7.2 Clean the chamber weekly.

- 7.2.1 Remove the trays and rock from the chamber.
- 7.2.2 Clean the chamber with nonplush cloth saturated with distilled water.
- 7.2.3 Apply the same procedure for the trays and rock.



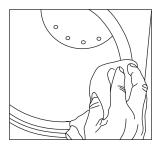
7.3 Replacement of the bacteriological filter

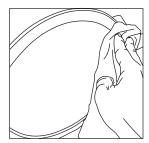
- 7.3.1 The bacteriological filter is at the back of the sterilizer.
- 7.3.2 Unscrew the filter by hand (anti-clockwise).
- 7.3.3 Replacing the bacteriological filter.
- 7.3.4 Screw the new filter by hand clockwise.



7.4 Clean the door seal

Clean the door seal weekly, with non-plush cloth saturated with the distilled water.

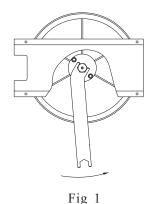




7.5 Door adjustment

On normal circumstance the chamber door lock don't need to adjust. Once steam leaking occurs (the seal fails), you may use the spanner to adjust door seal.

- 7.5.1 Open the door first
- 7.5.2 Insert the spanner in the gap beneath the plastic cover; use the spanner to lock on the adjusting nut (Fig 1). Turn the nut counter clockwise as the figure below (Fig 2). This will tighten the sealing plate.
- 7.5.3 Turn the nut until the sealing plate is tight. If the door knob is too tight, you may also turn the nut clockwise to loosen it.



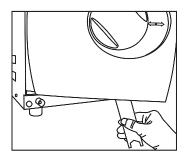
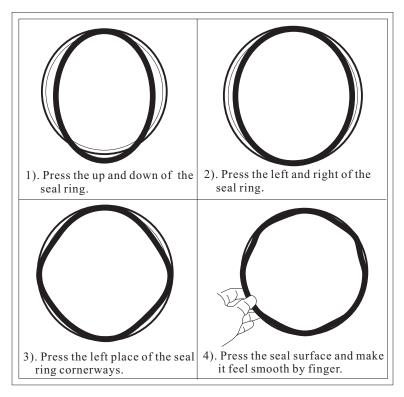


Fig 2

Caution: Never try to readjust the chamber door while the door is locked.

7.6 Replacement of the door seal

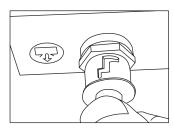
- 7.6.1 Fully open the door.
- 7.6.2 Remove the door seal ring carefully by hand.
- 7.6.3 Clean the door seal ring carefully with a non-plush cloth saturated with distilled water.
- 7.6.4 Moisten the new seal ring with medical disinfectant.
- 7.6.5 Insert the new seal ring and press in sequence as the following.



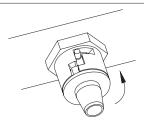


Caution: Please ensure the chamber and the door has been cool down before you replace the seal ring.

7.7 The drain valve



1. Push the hose to the drain valve by pressing it on firmly.



2. Set the drain valve to the open position by turning it counter clockwise.



3. Pull the drain valve outward, the tank will begin to drain.



4. After finish draining the tank, push the drain valve inward and turn clockwise to the position.

8 Transportation and Storage

- 8.1 Switch off the sterilizer before transportation or storage. Pull out the plug to let the machine cool down.
- 8.2 Drain the distilled water tank and the used water tank
- 8.3 Conditions for transportation and storage:

Temperature: $-20 \sim +55$

Relative humidity: $\leq 85\%$

Atmospheric pressure: 50kPa~106kPa

9 Error codes

Code	Description	Proposed solution
E1	Steam generator temperature sensor error	Check the steam generator temperature sensor
E2	Inner temperature sensor error	Check the inner temperature sensor
Е3	Temperature sensor of chamber wall error	Check temperature sensor of chamber
E4	Fail to rise temperature	Check the water release valve
E5	Fail to release the pressure	Check the air release valve Check the vacuum pump valve
Е6	Door has opened during the cycle	Make sure you have turned the door handle to the max. Position or check the door switch
E9	Failure to hold temperature	Ensure the distilled water tank isn't empty Check the inner temperature sensor Check somewhere leaking
E11	Failure to preheat the steam generator	Check the steam generator heater Check the steam generator protector
E12	Failure to preheat the chamber	Check the chamber heater Check chamber protector
E13	Vacuum failed (CLASS B)	Check the vacuum pump
E20	Program manually interrupted	Shut off the power and restart the power

10 Safety devices

(1)Main fuses

Protection of the whole equipment against possible failures of the heating resistor.

Action: Interruption of the electric power supply.

(2)Thermal cutouts on the mains transformer windings

Protection against possible short circuit and mains transformer primary winding overheating.

Action: Temporary interruption (up to the cooling) of the winding.

(3)Safety valve

Protection against possible sterilization chamber over-pressure.

Action: release of the steam and restoration of the safely pressure.

(4)Safety micro-switch for the door status

Comparison for the correct closing position of the door.

Action: signal of wrong position of the door.

 $(5) Manually\ reset\ thermostat\ on\ chamber\ heating\ resistors$

 $Protection\ for\ possible\ overheating\ of\ the\ chamber\ heating\ resistors\ .$

Action: Interruption of the power supply of the chamber resistors.

(6)Manually rest thermostat on steam generator

Protection for possible overheating of the steam generator.

Action: Interruption of the power supply of the steam generator.

(7)Door safety lock

Protection against accidental opening of the door.

Action: Impediment of the accidental opening of the door during the program.

(8)Self-leveling hydraulic system

Hydraulic system for the natural pressure levelling in case of manual cycle interruption, Alarm or black-out.

Action: automatic restoration of the atmospheric pressure inside chamber.

APPENDIX 1 Characteristics of the feeding water

DESCRIPTION	FEED WATER	CONDENSATE	
Evaporate residue	≤10 mg/l	≤1.0 mg/kg	
Silicium oxide sio ₂	≤1 mg/1	≤0.1 mg/kg	
Iron	≤0.2 mg/l	≤0.1 mg/kg	
Cadmium	≤0.005 mg/l	≤0.05 mg/kg	
Lead	≤0.05 mg/l	≤0.1 mg/kg	
Rest of heavy metals, excluding iron, cadmium, lead	≤0.1 mg/l	≤0.1 mg/kg	
Chloride	≤2 mg/l	≤0.1 mg/l	
Phosphates	≤0.5 mg/l	≤0.1 mg/l	
Conductivity (at 20°C)	≤15µs/cm	≤3µs/cm	
pH value	5-7. 5	5-7	
Appearance	Colorless, clean, without sediments	Colorless, clean, without sediments	
Hardness	≤0.02 mmol/l	≤0.02 mmol/l	

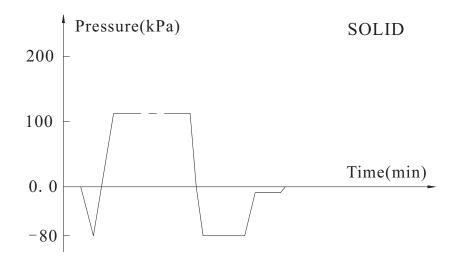
APPENDIX 2

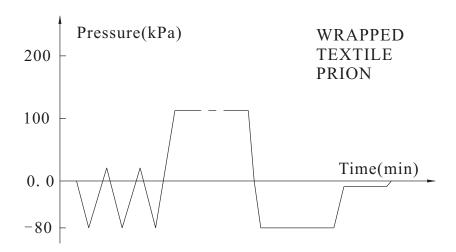
DIAGRAMS OF THE STERILIZATION PROGRAMS

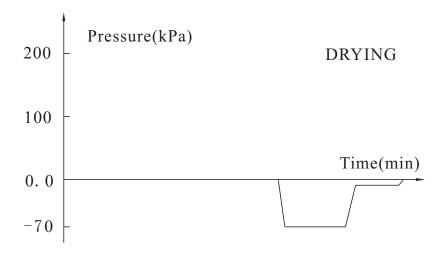
PROGRAM (CLASS B)	Temperature (°C)	Pressure (kPa)	Holding time (min)	Total time (min)	ТҮРЕ	Max. Load (kg)	Max. Load per tray (kg)
SOLID	134	210	4	4 14-30	Unwrapped solid	4. 00	1. 20
SOLID	121	110	20	30-45	material		
LIQUID	134	210	10	30-55	Liquid	1 00	0.20
(Optional)	121	110	30	35-60	Elquiu	1.00	0.30
WDADDED	134	210	4	30-55	Unwrapped solid material	3. 50	1. 10
WRAPPED	121	110	20	35-60	Single-wrapped solid or hollow material	3. 50	1. 10
					Unwrapped porous material	1. 00	0.30
	134	210	8	30-45	Single-wrapped porous material	0. 75	0. 20
TEXTILE					Dual-wrapped porous material	0. 50	0. 15
(Optional)	121	21 110	30	30-50	Single-wrapped hollow material	3. 50	1. 00
	121		30		Dual-wrapped solid and hollow material	1.50	0. 50
					Unwrapped porous material	1.00	0. 30
	134 210			8 35-55	Single-wrapped porous material	0. 75	0. 20
PRION		210	18		Dual-wrapped porous material	0. 50	0. 15
				Single-wrapped hollow material	3. 50	1. 00	
				Dual-wrapped solid and hollow material	1.50	0. 50	
DRYING (Optional)	_		_	1-20	_		_
B&D TEST	134	210	3. 5	22-35	_		
HELIX TEST	134	210	3. 5	22-35	_	_	_
VACUUM TEST	_	_	_	15-20	_	_	_

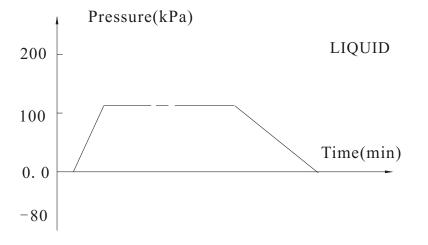
The time required for sterilizer to be ready for routine use after the power is switched on less than 5 minutes.

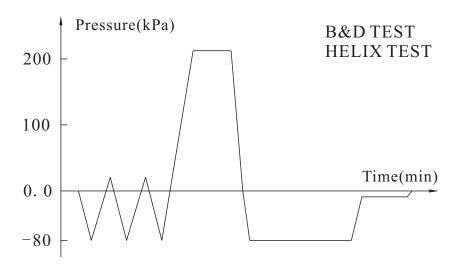
The max. temperature of the 134°C sterilization cycle is 137°C The max. temperature of the 121°C sterilization cycle is 124°C

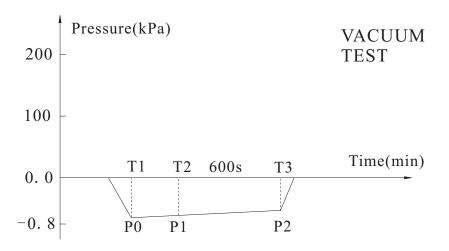








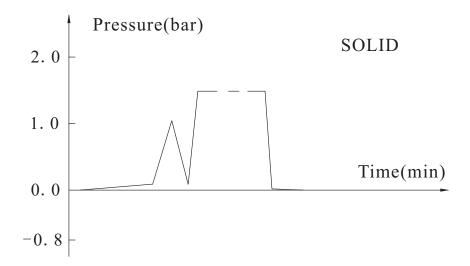


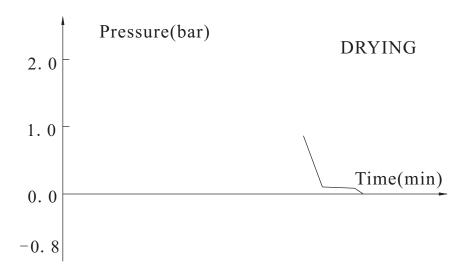


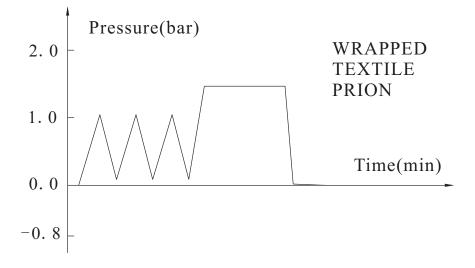
PROGRAM (CLASS B)	Temperature (C)°	Pressure (kPa)	Holding time (min)	Total time (min)	ТҮРЕ	Max. Load (kg)	Max. Load per tray (kg)						
COLID	134	210	4	14-30	Unwrapped solid	4. 00	1. 20						
SOLID	121	110	20	30-45	material	4.00	1. 20						
LIQUID	134	210	10	30-55	Liquid	1. 20	0. 40						
(Optional)	121	110	30	35-60	Elquiu	1. 20	0. 10						
WRAPPED	134	210	4	30-50	Unwrapped porous material	4. 00	1. 20						
WKMTED	121	110	20	35-55	Single-wrapped solid or hollow material	3.00	1. 00						
					Unwrapped porous material	1.00	0.30						
	134	210	8	30-45	Single-wrapped porous material	0. 75	0. 20						
TEXTILE					Dual-wrapped porous material	0. 50	0. 15						
(Optional)	121	110	30	30-50	Single-wrapped hollow material	3. 00	1. 00						
										Dual-wrapped solid and hollow material	2. 00	0. 75	
					Unwrapped porous material	1. 00	0.30						
					Single-wrapped porous material	0. 75	0. 20						
PRION	134	210	18	35-55	Dual-wrapped porous material	0. 50	0. 15						
				Single-wrapped hollow material	3. 00	1. 00							
												Dual-wrapped solid and hollow material	2. 00
DRYING (Optional)	_	_	_	1-20	_	_	_						

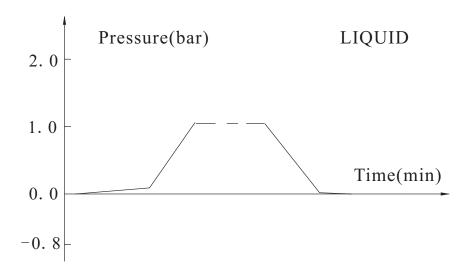
The time required for sterilizer to be ready for routine use after the power is switched on less than 5 minutes.

The max. temperature of the 134° C sterilization cycle is 137° C The max. temperature of the 121° C sterilization cycle is 124° C



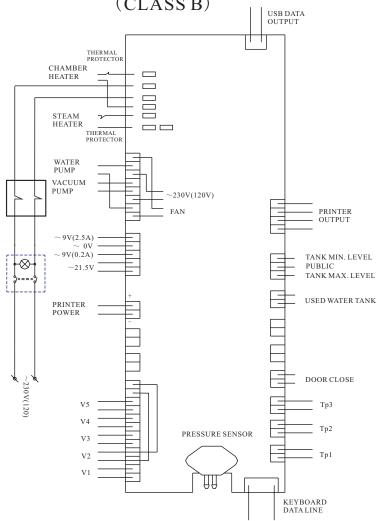






APPENDIX 3





TP1: Steam generator temperature sensor

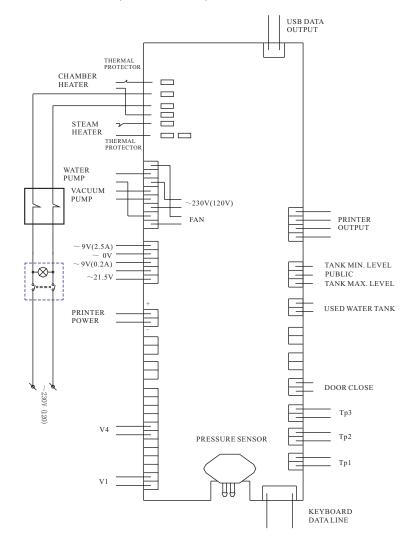
TP2: Inner temperature sensor

TP3: Temperature sensor of chamber wall

V1: Air release valve V2: Air filter valve V5: Vacuum pump valve

V3: Water pump valve

ELECTRICAL DRAWING (CLASS N)



TP1: Steam generator temperature sensor

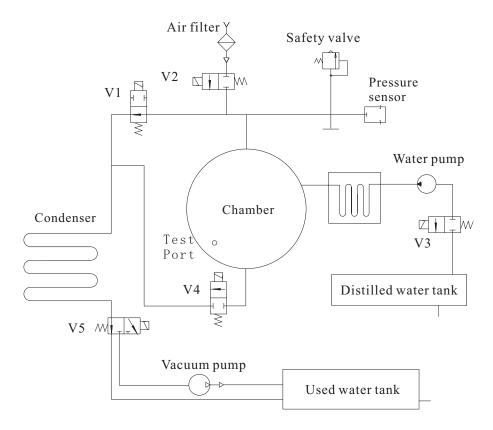
TP2: Inner temperature sensor

TP3: Temperature sensor of chamber wall

V1: Air release valve V4: Water release valve

APPENDIX 4

HYDRAULIC DRAWING (CLASS B)



V1: Air release valve

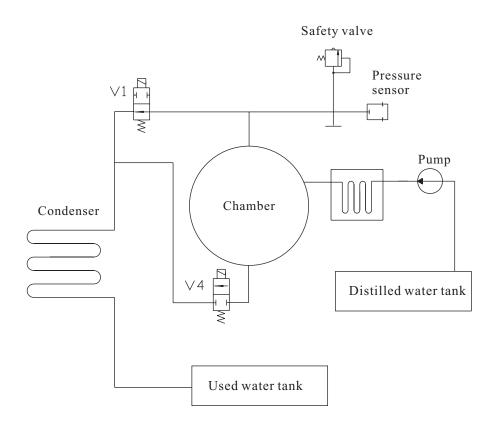
V2: Air filter valve

V3: Pump valve

V4: Water release valve

V5: Vacuum pump valve

HYDRAULIC DRAWING (CLASS N)



V1: Air release valve

V4: Water release valve