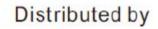
Clave 23+ Instruction Manual Serial numbers starting with 'Y' (4th Gen) Steam Sterilizer







Instruction Manual Clave23+

Thank you for choosing our steam sterilizer.

Prior to operating this device, please read the instruction manual carefully and follow all installation instructions.

Regular maintenance:

If this symbol appears on the screen when the device is powered on or if it shows E88 on the sterilization report, please contact your dealer or local service company for a maintenance service.

This device requires regular maintenance. A \bigcirc symbol or error code E88 will be displayed after 1 year of use or after a 1000 cycles, whichever comes first. This is programmed into the maintenance screen.

The Clave 23+ is the same as a Clave 23 except it has a built in compressor that speeds up the drying process. It also has a bacteria filter that requires replacement approximately every 6 - 12 months or 1000 cycles.

****USE ONLY DISTILLED WATER IN THIS DEVICE****

Do not re-use the used water from this machine.

Power on the unit with the door open.

This will allow the unit to get an initial zero pressure reading. The machine will not start a cycle and only beep (3 times) when the start button is pressed if it has a non-zero pressure reading on powering up.

General Safety Instructions:

-Make sure that all the installation conditions are fully complied with.

-Ensure that the supply voltage agrees with the supply voltage specified on the rating plate of the sterilizer.

-This appliance must be grounded. Connect only to a properly grounded outlet.

-Do not cover or block any openings on this appliance.

-Use this appliance only for its intended use a described in this manual.

-Do not exceed the maximum weight limit of the loads specified in this manual.

-Do not operate this appliance if it has a damaged power cord or plug or if it is not working properly or if it has been damaged or dropped.

-Never put flammables or explosives products into the sterilizer.

-The sterilizer may not be operated in areas in which gas or any other explosive volatile substance is present.

-Installation and repair work should only be performed by an authorized service technician. Work by unqualified persons could be dangerous and will void any warranty.

Clearing Error Code

Clear Error Code by Pressing and holding the \checkmark button. This must be done before running a new cycle.

Document: Version 1.0 Subject to technical changes

Save these instructions

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2.

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1 General

Scope of Manual

This manual contains information concerning the installation, operation and maintenance of the CLAVE23+ steam sterilizer. To ensure proper performance of the sterilizer, the instructions given in this manual should be thoroughly understood and followed.

Keep the manual near the sterilizer in an accessible location for future reference.

Intended Use

The steam sterilizer described in this manual is intended for the sterilization in all medical, dental, beauty, vet and tattoo fields of the following types of instrument loads: solid, porous, hollow loads type A and hollow loads type B, un-wrapped, single wrapped and double wrapped, and liquid, that are compatible with steam sterilization.

General Safety Instructions

- Read and understand this manual before attempting to install or operate the sterilizer.
- Make sure that all the installation conditions are fully complied with.
- Ensure that the voltage agrees with the supply voltage specified on the rating plate of the sterilizer.
- This appliance must be grounded. Connect only to a properly grounded outlet.
- Do not cover or block any openings on this appliance.
- Use this appliance only for its intended use as described in this manual.
- Do not exceed the maximum weight limit of the loads specified in this manual.
- Do not operate this appliance if it has a damaged cord or plug or if it is not working properly or if it has been damaged or dropped.
- Never put flammables or explosive products into the sterilizer.
- The sterilizer may not be operated in areas in which gas or any other explosive or volatile substance is present.
- Installation and repair work should only be performed by authorized service technicians.
 Work by unqualified persons could be dangerous and may void the warranty.

Standards and directives

The steam sterilizers were designed and produced in conformity with the following directives and standards:

Directives:

97/23/CE Pressure equipment. 93/42/EEC Medical devices (class II b).

Standards:

EN 13060 Relative to small steam sterilizers.

EN 61010-1 Safety regulations for laboratory devices - Part 1: General regulations. EN 61010-2-040 Safety regulations specific to sterilizers used in the processing of medical material.

EN 61326-1 Electromagnetic compatibility regulations for laboratory devices.

Symbols

For safe operation, please pay close attention to the alert symbols below which can be found on the sterilizer and throughout this manual.



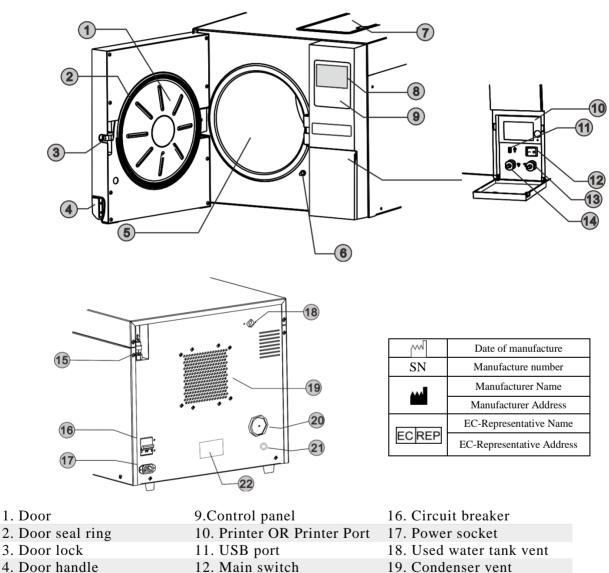




Important information (Caution) 2 Description of the sterilizer Hot surface

Ground connection

Sterilizer views

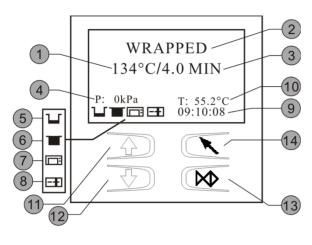


- 5. Chamber
- 6. Door switch
- 7. Distilled water tank
- 8. LCD

- 13. Distilled water outlet/
- Distilled water inlet*
- 14. Used water tank outlet
- 15. Safety valve
- 20. Bacteriological filter
- 21. Distilled water drain*
- 22. Rating plate

*Models equipped with external water filling function.

Control Panel



Technical Specifications

1	Program temperature	
2	Program	
3	Holding time	
4	Pressure	
5	Distilled water / Fill it flashing.	
	Filling the tank	
	Bad water quality	
6	Used water tank full / Drain if flashing	
7	Printer status	
8	Door Open	
	— Door Closed	
	— – Door Locked	
9	Time	
10	Current internal temperature	
11	Up button	
12	Down button	
13	Enter button	
14	Menu button	

Model	Clave 23+	
Chamber (m, diameter/depth)(inches)	φ247 x 450(9.724" x 17.716")	
Overall dimensions (mm,W*H*D)	490 x 455 x 690	
Net Weight (kg)	53	
Nominal power (VA)	1600	
Electrical supply	110V;60 Hz;15A	
Sterilization temperatures	121°C/134°C	
Consists of the distilled water tenk	2.5 L (Water at level Max.) Approx.	
Capacity of the distilled water tank	0.5 L (Water at level Min.) Approx.	
Circuit breaker	F15A /400 V	
Operation temperature	$5^{\circ}C \sim 40^{\circ}C$	
Operation relative humidity Max. 80%, non-condensing		
Max. Noise level	<70 dB	
Atmospheric pressure 76 kPa ~ 106 kPa		

Packing content

Item	Accessories		Quantity
1	Instrument tray		4
2	Instrument tray rack		1
3	Draining hose	\bigcirc	2
4	Door Seal	\bigcirc	1
5	Tray handle	I	1
6	Door adjustment Wrench	and a start of the	1
7	Instruction Manual		1

3 Installation

General conditions

- Position the device on a solid surface with a minimum weight capacity of 60 kgs.
- The sterilizer should be placed on a level worktable.
- Leave at least 10 cm between the device rear part and the wall. The clearance required to open the door is 40 cm.
- Position the sterilizer at such a height as to make it possible for the operator to check the whole sterilization chamber and carry out the normal cleaning operations.
- The room where the device is installed must be sufficiently ventilated.
- Do not install the device near washing basins, taps, etc. where it is likely to be splashed.
- Do not lean on the door when it is opened.
- Do not place trays, papers, fluid containers or other objects on the sterilizer.

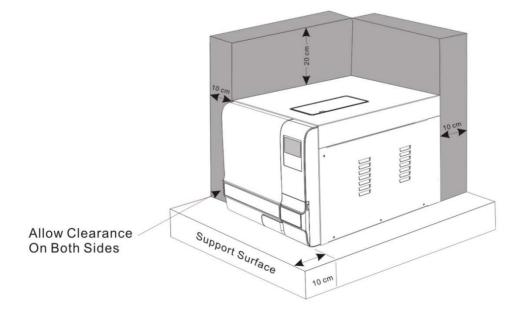
Power supply connection

Check the label on the back panel of sterilizer to verify the voltage rating for the unit. Failure to connect the sterilizer to an appropriate power supply could result in damage to the unit and electrical shock to personnel.

Plug the power cord into a properly polarized and grounded receptacle rated for the correct voltage and current. A dedicated circuit that is only used for the sterilizer is recommended. Never connect the device plug to adapters of any type.

Location requirements and dimensions (mm)

To ensure proper air circulation, and to allow access to the reservoir fill port and drain coupling, adhere to the minimum clearance requirements listed below.



4 Setup

Connect the power cord to an outlet of the appropriate voltage. Open the door to remove all of the inner contents for unpacking. Turn on the main power switch on the right side. After switching on, the machine turns on the LCD and shows the door position, water level, working program, date, time, etc.

THE DOOR MUST BE OPEN WHEN THE POWER IS TURNED ON TO ALLOW CALIBRATION OF THE UNIT.

Fill the distilled water tank

Manual water filling

When the level of distilled water reaches a minimum level, the distilled water tank icon will flash and beep three times.

Press the button on the tank lid and fully open the door. Fill the tank carefully with distilled water. If the water level exceeds the maximum level, an alarm will sound, and the distilled water tank icon will blink.

Drain the used water tank

Attach the drain hose on the drain port connector located inside the service door. The left port is the drain port for the waste water tank. Attention: The capacity of the used water tank is approximately 1.5 liters.



Preparation of materials for sterilization

For the most effective sterilization and to preserve instruments, please follow below:

- Clean instruments immediately after use.
- Clean the instruments with an ultrasonic cleaner.
- Residual chemicals left over after the cleaning and disinfecting process may damage and corrode parts of the sterilizer. Always rinse off the instruments using distilled water.
- Follow instrument manufacturer's guidelines and recommendations for handling and cleaning instruments prior to sterilization.
- Check the manufacturer's instructions as to proper procedure for sterilizing each item.
- Arrange the samples of different materials on different trays or with at least 3cm of space between them.
- Clean and dry instruments thoroughly before placing them into a tray.
- Always insert a sterilization paper or cloth between the tray and sample to avoid direct contact.
- Arrange the containers (glasses, cups, test-tubes, etc.) on one side or inverted position, avoiding possible water pooling.
- 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 samples one by one or, if more tools have to be put in the same bag, verify that these are made of the same material and are not touching one another.
- Don't use metallic clips, pins or similar items, as this jeopardizes the maintenance of the sterilizer.
- Don't overload the trays over the stated limit (see appendix 2).

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• Load packaged instruments with the paper side up as the steam and moisture inside the pouches can evaporate easier and thus allow for better drying.

Basic Set

Press the N button to access the main menu. From the main menu, select "Basic Set".

Program	Date: 11-07-2019
Basic Set	Time: 12:05:35
Report	Language: ENG
Label	Counter: 00000

The "Basic Set" menu permits to set the following options:

*Date *Time *Language

Select the "Basic Set" from the main menu by pressing **** button.

Select the item by pressing **X** button. The unit you selected will be highlighted.

Adjust the value by pressing \clubsuit buttons. Press \checkmark button to select the next item.

Press \bowtie button to save and exit.

Abbreviation of language options

CHN	Chinese	ENG	English	DEU	German	ESP	Spanish
PL	Polish	FR	French	HUN	Hungary	ROM	Romanian
NL	Dutch	LTU	Lithuanian	LAT	Latvian	CZE	Czech
ITA	Italian	RUS	Russian	PT	Portuguese	HR	Croatian

Note: The Counter (cycle number) cannot be changed by the operator.

About device

Select "About device" from the main menu then press \checkmark button. Press \bigstar button to exit.

Basic SetDevice Info.Report3BB12B 11111110LabelV2.9.0.1-00My deviceSN: A09999B12

Advance Set

The "Setup" menu allows you to set the following options:

*Parameter *Unit *Preheat *Expiry date (labels)(Optional) *Water quality (sensor) (optional) and seeing the information of the: *Last error

Select "Setup" from the main menu by pressing **X** button.

Input the password one at a time by pressing $\uparrow \downarrow$ and \land button to go next.

Password: 1111

Password 1111	Parameter Unit Preheat Expiry date	Water quality Last error About device
------------------	---	---

Parameter

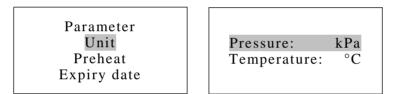
The "Parameter" menu allows you to set the following options: *Holding time *Dry time

Select "Parameter" from the menu by pressing ****button. Select the program by pressing ****then press **** button. Select the parameter by pressing **** button. Adjust it by pressing ****. Press ****button to save and exit.

Parameter Unit Preheat Expiry date	Unwrapped (121°C) Unwrapped (132°C) Wrapped (121°C) Wrapped (134°C)	Holding time: 20.0 Dry time: 03.5
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Unit

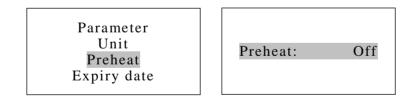
Select "Unit" from the menu by pressing \checkmark button. Select the parameter by pressing \checkmark button. Adjust it by pressing \blacklozenge . Press \bigstar button to save and exit.



Preheat

When this mode is activated, the chamber and steam generator start to warm until it reaches the minimum temperature to begin a sterilization cycle. This helps to reduce the total cycle time and improve the drying efficiency. The "Preheat" mode will be deactivated after one hour of inactivity.

Select "Preheat" from the menu by pressing \checkmark button. Adjust it by pressing \bigstar . Press \bigstar button to save and exit.



Expiry date (Optional)

To modify the expiration date of the labels, select "Expiry date" from the menu by pressing \checkmark button. Adjust it by pressing \blacklozenge .

Press \bowtie button to save and exit.

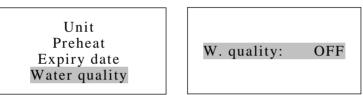


Water Quality (optional)

If your sterilizer is equipped with a water quality sensor and you want to deactivate it, select "Water quality" from the menu by pressing \mathbf{N} button.

Adjust it by pressing $\mathbf{\uparrow}$.

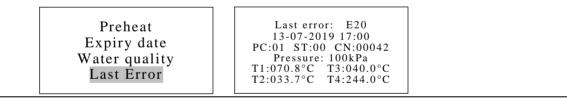
Press \bowtie button to save and exit.



Last Error

In order to help the technical troubleshooting process, the most relevant information corresponding to the last error can be displayed on the screen.

Select "Last error" from the menu by pressing \checkmark button. Press \bigstar button to exit.

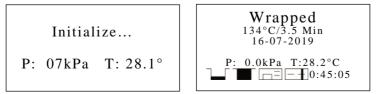


5 Operation

Prerequisites

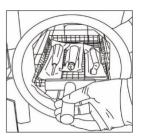
Switch On. Check the status of the icons in the screen, $\Box \Box \Box \Box$. (Refer to point 2. Description of the sterilizer)

THE DOOR MUST BE OPEN PRIOR TO TURNING ON THE POWER TO ALLOWING THE UNIT TO CALIBRATE



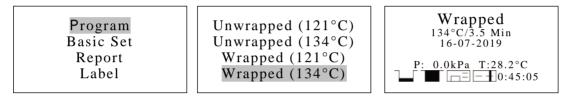
Load

Open the door then placed the trays inside the chamber by the tray handle. After the instruments are loaded, you may close the door.



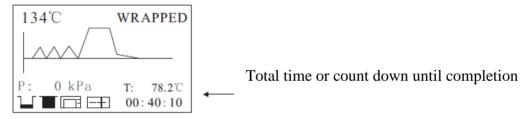
Select the program

Enter to the main menu by pressing \checkmark button, Select "Program". Select the program by pressing \bigstar then press \checkmark to confirm program, in the screen will appear the information of selected program as the temperature and sterilization time (holding time), also the date, time, current pressure and current temperature.



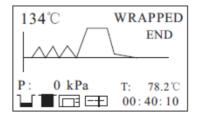
Start the sterilization program

Press \bowtie to start the cycle. The stage, conditions and the status of the cycle will appear on the display. The sterilizer will perform the program automatically. (see appendix 2).



End of the cycle

Once the cycle is completed, "End" will appear at the end of the graphic. The printer will print out and the digital report is saved in the USB memory if these are connected.





Caution: Always use the tray handle to load or unload the tray into the sterilizer. Failure to do so can result in burns.

Manual interruption of the cycle

To interrupt a cycle prematurely, hold \bowtie for 3 seconds.

If the cycle is manually interrupted after it reaches the drying phase, the items inside the sterilizer may be considered sterile and since the cycle has been interrupted during the drying phase the materials and instruments inside the chamber may be wet.

Note: If the cycle is manually interrupted before it reaches the drying phase, the items inside the sterilizer must be considered **not sterile**. N20 will appear on the screen. (see Error code description).



Caution: Caution: Depending which phase of the cycle you interrupt the cycle, steam and water can escape from the sterilization chamber when you open the door.

Data

The internal memory will store the information of the last 9999 cycles.

USB Flash memory (Optional)

A USB drive can be used as a method of storing a report of the cycle. To do so, insert the USB drive into the slot located on the service door of the sterilizer.

The information will automatically output directly to the USB drive after the cycle has completed. The name of the file is determined by the serial number of the machine and the cycle number.

For example:

The serial number is E00001. The cycle number is 0012.

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.

E.g. 00:no error; 01: error E01

Printer (Optional)

If installed, you can see the icon in the screen stop flashing.

At the end of each cycle the printer will print out a report of the cycle.

Note: If there is no paper inside the printer, the icon will flash.

Report

Internal Memory

In this menu you can get the information of all the cycles stored in the internal memory of the sterilizer.

Select "Report" from the main menu and press X button, you will see the list of records.

Select the record by pressing **↑** button.

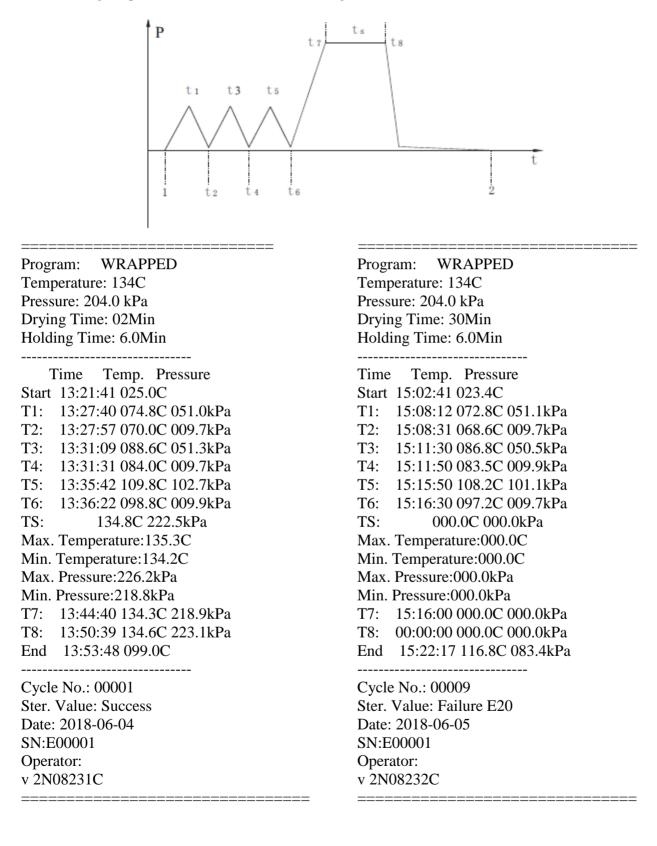
Press N button to print and save the report.

Press 🔯 button to exit.

Program00Basic Set00Report00Label00

Sample of a printer report

When reading the printed data records, refer to the diagram below:



Print labels

Select "Label" from the main menu and press button to enter the menu. Select the cycle number by pressing button. Choose the labels quantity by pressing then press button to print.

Press \bowtie button to exit.

6 Maintenance

To ensure proper operation and maximum steam sterilizer life, carefully follow all recommendations for periodic maintenance. One of the most important steps you can take to prevent problems with your sterilizer is to use only distilled water.

Frequency	Number of cycles	Maintenance operation
		Clean the external surface
Daily		Drain used water tank
		Clean the door seal
Waakhu	25	Clean the chamber, trays and rack
Weekly		Clean distilled water tank (drain tank)
Monthly	Monthly 100	Clean the filter inside the chamber and in the distilled
Woltiny		water tank
Every 6 months	500	Replace the bacteria filter
Every year	1000	Replace door seal, tubing, filters, check valves

Clean the distilled water tank

Unplug the power cable, or turn the circuit breaker to the off positoin at the back of the unit.

Drain the tank completely using the drain connector at the front of the sterilizer and leave it connected to a tube in an open position.

Clean the internal surface with a soft sponge and a small soft brush for the areas difficult to reach using distilled water.

Remove the filter and clean it with a small soft brush and mild soap, rinse it with distilled water, and put it back in to the position.

Replacement of the bacteria filter.

The bacteria filter is at the back of the sterilizer. Unscrew the filter by hand by turning the filter counterclockwise.

Replace the bacteria filter with a new one. Screw the new filter by turning the filter clockwise. Note: Do not operate sterilizer without filters in place.

Clean chamber, door seal ring, trays, and tray rack.

Remove the trays and tray rack from the chamber. Clean the trays, rack and the inside of the chamber with mild soap.

Rinse the trays, rack and inside of the chamber with a smooth cloth and distilled water.

Examine door seal for possible damage. Clean door seal and mating surfaces with a damp cloth. Note: Do not use bleaching agents or any abrasive materials or substances in the chamber. Failure to comply may cause damage to the chamber and/or other components.



Caution: To prevent burns, let the unit cool before cleaning gaskets and touching the surface.

Door adjustment

Under normal circumstances, the chamber door does not require adjustments. However, if the seal fails (resulting in steam leaking from the front of the chamber), you may need to adjust the door tension.

Open the door.

Insert the spanner tool in the gap beneath the plastic cover. Use the spanner to grip the adjusting nut. Turn the nut counter clockwise as the figure below. This will tighten the sealing plate. 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.

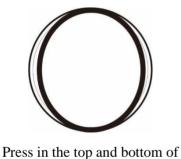


Caution: Never adjust the chamber door while the door is closed.

Replacement of the door seal ring

Open the chamber door. Remove the door seal ring carefully by hand. Clean the door seal ring carefully with a smooth cloth with distilled water. Moisten the new seal with distilled water.

Insert the new seal and tap in sequence as follows:



the door seal.



Press in the left and right sides of the door seal.

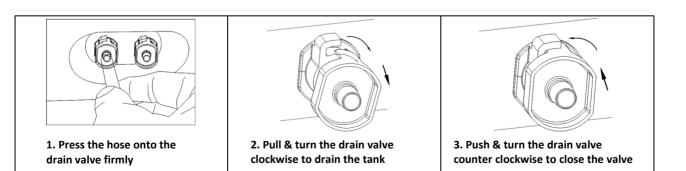


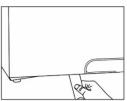
Press the remaining sections of the seal.



Caution: Please ensure the chamber and the door are cold prior to replacing the seal ring.

The drain valves





7 Troubleshooting

E1Steam generator temperature sensor error.Power off & run a new cycle Contact your supplier if error persists.E2Inner temperature sensor error.Power off & run a new cycle Contact your supplier if error persists.E3Temperature sensor of the chamber wall error.Carefully ensure that the chamber wall is heated and contact your supplier if error persists.E5Fail to release the pressure.Power off & run a new cycle Contact your supplier if error persists.E6Door lock problem during the cycle.Make sure you had closed the door properly. Check the door switch.E7Error between temperature and pressure correlation.Power off & run a new cycle Contact your supplier if error persists.E8Error between temperature.Power off & run a new cycle Contact your supplier if error persists.E10The door locking system doesn't work.The electromagnetic locking system doesn't work.E11Failure to preheat the steam generator.Power off & run a new cycle Contact your supplier if error persists.E12Failure to preheat the chamber.Power off & run a new cycle Contact your supplier if error persists.E11Failure to preheat the chamber.Power off & run a new cycle Contact your supplier if error persists.E12Pressure errorPower off & run a new cycle Contact your supplier if error persists.E13Failure to greheat the chamber.Power off & run a new cycle Contact your supplier if error persists.E14Failure to preheat the chamber.Power off & run a new cycle Contact your supplier if error persists.<	Code	Description	Proposed solution
error.Contact your supplier if error persists.E2Inner temperature sensor error.Power off & run a new cycle Contact your supplier if error persists.E3Temperature sensor of the chamber wall error.Carefully ensure that the chamber wall is heated and contact your supplier.E5Fail to release the pressure.Power off & run a new cycle Contact your supplier if error persists.E6Door lock problem during the cycle.Make sure you had closed the door properly. Check the door switch.E7Error between temperature and pressure correlation.Power off & run a new cycle Contact your supplier if error persists.E8Error between temperature.Power off & run a new cycle Contact your supplier if error persists.E9Failure to hold temperature.Ensure the distilled tank isn't empty. Check the inner temperature sensor. Check somewhere for leaking.E10The door locking system doesn't work.The electromagnetic locking system doesn't work.E11Failure to preheat the steam generator.Power off & run a new cycle Contact your supplier if error persists.E12Failure to preheat the chamber.Power off & run a new cycle Contact your supplier if error persists.N20Program manually interrupted next status.Reset the error form main screen.E24It takes too long time to enter the next status.Check for leaks. Or contact your supplier if error persists.N20Program manually interrupted Reset the error from main screen.Power off and contact your supplier if error persists.N24The pressure is	F 1	Steam generator temperature sensor	Power off & run a new cycle
E2Inflet temperature sensor of the chamber wall error.Contact your supplier if error persists.E3Temperature sensor of the chamber wall error.Carefully ensure that the chamber wall is heated and contact your supplier.E5Fail to release the pressure.Power off & run a new cycle Contact your supplier if error persists.E6Door lock problem during the cycle.Make sure you had closed the door properly. Check the door switch.E7Error between temperature and pressure correlation.Power off & run a new cycle Contact your supplier if error persists.E8Error between temperature.Power off & run a new cycle Contact your supplier if error persists.E9Failure to hold temperature.Ensure the distilled tank isn't empty. Check the inner temperature sensor. Check somewhere for leaking.E10The door locking system doesn't work.The electromagnetic locking system doesn't work.E11Failure to preheat the steam generator.Power off & run a new cycle Contact your supplier if error persists.E12Failure to preheat the chamber.Power off & run a new cycle Contact your supplier if error persists.E12Failure to preheat the chamber.Power off & run a new cycle Contact your supplier if error persists.E14Pressure errorPower off & run a new cycle Contact your supplier if error persists.E16Pressure errorPower off & run a new cycle Contact your supplier if error persists.N20Program manually interrupted next status.Reset the error from main screen.E24It takes too long tim	EI	error.	Contact your supplier if error persists.
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E 74	E24		Power Off and release air from Unit and run
	E34		another test.

Clear Error Code by Pressing and holding the \checkmark button. This must be done before running a new cycle.

8 Transportation and storage

Switch off the sterilizer before transportation or storage. Pull out the plug. Let the machine cool down. Drain the distilled water tank and the used water tank.

Conditions for transport and storage Temperature: $-20^{\circ}C \sim +50^{\circ}C$ Relative humidity: $\leq 85\%$ Atmospheric pressure: 50kPa~ 106kPa.

9 Safety devices

1. Main breaker: Protection of the instrument against possible failures of the heating elements. Action: Interruption of the electric power supply.

2. Thermal cutouts on the main transformer winding: protection against possible short circuit and main transformer primary winding overheating Action: Temporary interruption of winding.

3. Safety valve: Protection against possible sterilization chamber over-pressure. Action: Release of steam and restoration of the pressure to a safe level.

4. Safety micro-switch for the door status: Comparison for the correct closing position of the door. Action: Signal of the wrong position of the door.

5. Thermostat on chamber heating elements: Protection for possible overheating of the chamber heating elements.

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

6. Thermostat on steam generator heating elements: Protection for possible overheating of the steam generator heating elements.

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

7. Door safety lock: Protection against accidental opening of the door. Action: Prevents the accidental opening of the door during the cycle.

8. Self-leveling hydraulic system: Hydraulic system for the natural pressure leveling in case of manual cycle interruption, alarm or blackout.

Action: Automatic restoration of the atmospheric pressure inside the chamber. (valve opens to release internal pressure)

Appendix 1

Description	Feed water	Condensate	
Evaporate residue	$\leq 10 mg/$ I	≤ 1.0 mg/kg	
Silicon oxide sio2	≤ 1 mg/ I	\leq 1.0mg/kg	
Iron	\leq 0.2mg/ I	≤ 0.1 mg/kg	
Cadmium	\leq 0.005mg/ I	\leq 0.05mg/kg	
Lead	\leq 0.05mg/ I	\leq 0.1mg/kg	
Rest of heavy metals	\leq 0.1 mg/ I	\leq 0.1mg/kg	
Chloride	\leq 2mg/ I	≤ 0.1 mg/kg	
Phosphates	\leq 0.5 mg/ I	\leq 0.1mg/kg	
Conductivity	≤15µs /cm	\leq 3 µs /cm	
PH Value	5 - 7.5	5 - 7	
Appearance	Colorless, clean	Colorless, clean	
Hardness	0.02 mmol/ I	0.02 mmol/ I	

Water properties / Characteristics

Appendix 2

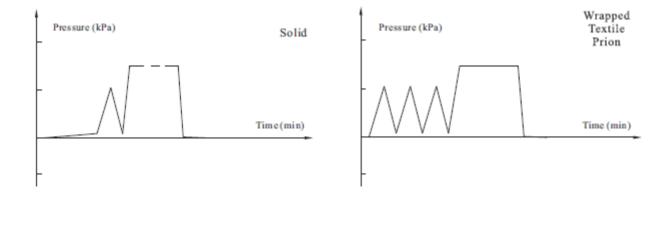
				1			
Programs Clave23+	Temperature (°C)	Pressure (kPa)	Holding time (min)	Total time (min)	Туре	Max load (kg)	Max load per tray (kg)
SOLID	134	210	4	15-35	Unwrapped solid material	5.00	1.50
(Unwrapped)	121	110	20	31-40	**	5.00	1.50
WRAPPED	134	210	6	30-50	Single-wrapped solid or hollow material	4.00	1.20
WRAITED	121	110	20	48-60	Single-wrapped solid or hollow material	4.00	1.20
		210	8	36-55	Unwrapped porous material	1.25	0.40
	134				Single-wrapped porous material	1.10	0.30
		121 110	30	55-70	Dual-wrapped porous material	0.75	0.25
TEXTILE	101				Single-wrapped hollow material	4.00	1.25
	121				Dual-wrapped solid and hollow material	2.00	0.60
					Unwrapped porous material	1.25	0.40
					Single-wrapped porous material	1.10	0.30
	134 2				Dual-wrapped porous material	0.75	0.25
PRION		210	18	50-75	Single-wrapped hollow material	4.00	1.25
					Dual-wrapped solid and hollow material	2.00	0.60
LIQUID	134	210	10	35-60	Limit	1.00	0.40
(optional)	121	110	30	35-65	Liquid	1.20	0.40
Drying (optional)	_	—	—	1-20	_	_	_

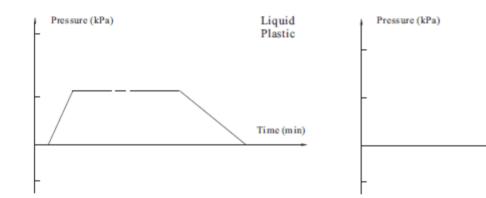
Diagrams of the sterilization programs

The time required for sterilizer to be ready for routine use after the power is switched on is less than 15 minutes.

The maximum temperature of the 134°C sterilization cycle is 137°C

The maximum temperature of the 121°C sterilization cycle is 124°C

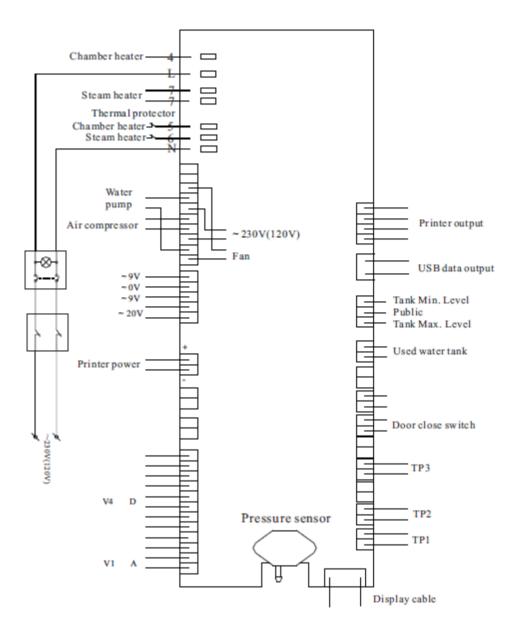




Drying

Time(min)

Appendix 3



Wiring Diagram

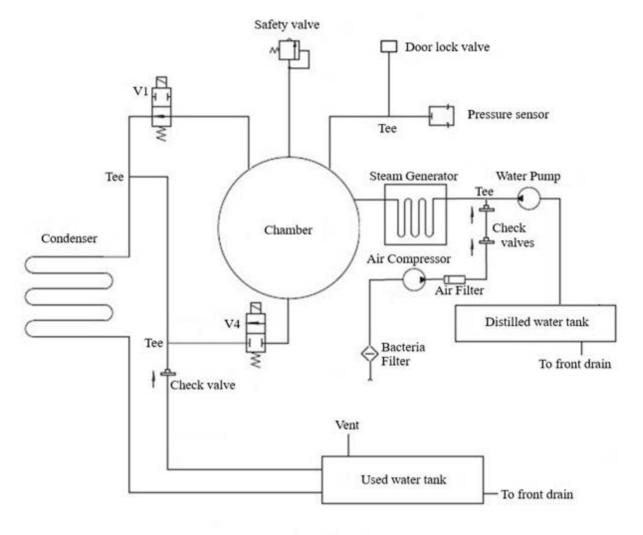
TP1: Steam generator temperature sensor TP2: Inner temperature sensor

TP3: Temperature sensor of chamber wall

V1: Vacuum pump valve

V4: Water release valve

Appendix 4



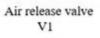
Hydraulic Diagram

V1: Air release valve (normally open) P/N 90012077 V4: Water release valve (normally closed) P/N 90012025



Alternate V1, p/n 90012024







Water release valve V4



All new Clave16 or Clave	Certificate of Warranty 23 or Class B autoclaves installed by a Flight Dental Systems authorized dealer f
period of two (2) full year materials for two (2) year include labor or installation accident; nor shall it exter	from the time of purchase. The warranty covers defects in parts, workmanship except door gaskets and filters which are wear and tear items. This warranty does . This warranty does not apply to any device that has been subjected to improper us d to autoclaves that have been repaired or altered by an unauthorized Flight deale so does not include routine cleaning or preventive maintenance.
obligations are expressed of To activate the warranty, (14) days of purchase or y	ed to the repair or replacement of parts for the autoclave. No other warrantie implied. The user must follow the instructions for use as outlined in the user manu he registration card must be completed and mailed or faxed to Flight within four ou may call our customer service department at the number listed below. Products ted for repair from an authorized dealer and only with prior return authorization to
COD shipments. If repair authorized service dealer i on an individually evaluated difficulties with this instru	to and from Flight must be paid by the owner of the Autoclave. Flight will not ac a are needed during the first 90 days after purchase of their autoclave and a l not available. Flight will arrange pick up of the unit at Flight's expense. This wi d basis and ONLY with pre-approval. Note: If you have any questions or there are nent and the solution is not covered in this manual, please contact your dealer or F mpt to service this device yourself.
Authorized Dealer	
Installed by:	
2	nber:
Product Serial Nu	
Product Serial Nu Product Descriptic	nber:
Product Serial Nu Product Descriptic Product Model:	nber:
Product Serial Nu: Product Descriptic Product Model: Purchased Date:	nber:
Product Serial Nu: Product Descriptic Product Model: Purchased Date: End User Name: _	nber:n:
Product Serial Nu: Product Descriptic Product Model: Purchased Date: End User Name: _ Telephone:	nber:n:
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Product Serial Nu: Product Descriptic Product Model: Purchased Date: End User Name: _ Telephone: Email: Address:	nber:

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Contact Information

Thank you for taking the time to review the Flight Dental Unit's Instruction Manual. Your feedback or comments regarding the document is welcomed. For any comments and concerns please mail, e-mail or phone us at:

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