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WATER DEMINERALIZER

PURE 100



OPERATING MANUAL

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REVISIONS

The following table lists subsequent editions/revisions of the manual.
The "Description" field brief explains the subject of the latest revision.

Code	Rev.	Date	Description
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INTRODUCTION

Dear Customer,

Thank you for choosing a product. We hope that you will find it completely satisfactory.
This manual describes all procedures for the correct installation and use of the equipment.
Should you have any questions or suggestions concerning this product or our support, do not hesitate to contact us.

Note, warning and danger symbols used through the manual

	**NOTE** PAY SPECIAL ATTENTION; NOTES FOR PROPER INSTALLATION AND MAINTENANCE PROCEDURES AND USE METHODS.

	**WARNING!** THIS SYMBOL INDICATES A POTENTIAL DANGER OF INJURY. FOLLOW THE PROCEDURES DESCRIBED IN THE MANUAL TO AVOID INJURING THE USER AND/O.

Symbols on equipment

	Appliance equipped with water anti-backflow device in accordance with the EN 1717 standards..
	Equipment in accordance with applicable directives.
	Waste disposal in accordance with Directive 2012/19/UE.
	Consult the user manual.

INTENDED USE

The appliance is intended for professional use and only for the purpose for which it was designed, that is, demineralization of drinking water and its subsequent use to feed steam sterilizers.

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NOTE

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THE ORIGINAL MANUAL IN ITALIAN SHALL BE CONSIDERED THE VALID INTERPRETATION OF THESE INSTRUCTIONS.

PURPOSE OF THE MANUAL

The manual purpose is to provide instructions for:
- General knowledge of the product;
- Correct installation;
- Its safe and efficient use;
- The treatment of tools and/or materials to submit to sterilization.

More the appendix includes:
- The technical features of the product;
- Maintenance operations;
- Troubleshooting and solutions;
- Other documentation

GENERAL WARNINGS

The product must always be used according to the procedures included in this manual and never for purposes other than the ones indicated.

WARNING!

THE USER IS RESPONSIBLE FOR ALL LEGAL REQUIREMENTS RELATED TO THE INSTALLATION AND USE OF THIS PRODUCT. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY BREAKAGE, MALFUNCTIONS, PROPERTY DAMAGE OR INJURY IN THE EVENT THAT THE PRODUCT IS NOT INSTALLED OR USED CORRECTLY.

Please observe the following precautions in order to avoid injury or property damage; in particular:
- use **ONLY** recommended cleaning detergents;
- **do not** pour water or other liquids or inflammable products on the equipment;
- **do not** use the equipment in the presence of gas or explosive or inflammable vapors;
- **do not** remove any label or nameplate from the device; request new ones, if necessary;
- use **only original replacement parts;**
- **do not** occlude or kink the water tubes leading to and from the appliance;
- **do not** feed sterilizing autoclaves with water produced from exhausted filters.

WARNING!

THE FAILURE TO OBSERVE THE ABOVE, RELEASES THE MANUFACTURER FROM ALL LIABILITY.

WARNING

THE WATER PRODUCED BY PURE 100 CANNOT BE USED FOR FOOD PURPOSES.

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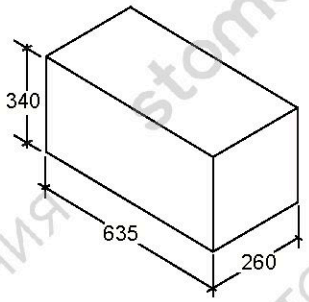
CONTENTS OF THE PACKAGE

NOTE
CHECK THE INTEGRITY OF THE PACKAGE UPON RECEIPT.

Once the package is opened, check that:
- the supply matches the specifications of the order (see the accompanying document);
- that there is no obvious product damage.

DIMENSIONS AND WEIGHT

Size and weight	Pure 100
Height	mm 340
Width	mm 260
Depth	mm 635
Overall weight	kg 5,3



NOTE
IN THE CASE OF A WRONG PRODUCT, MISSING PARTS OR ANY TYPE OF DAMAGE, IMMEDIATELY PROVIDE A DETAILED DESCRIPTION TO THE RESELLER AND THE TRANSPORTER THAT MADE THE DELIVERY.

PRODUCT HANDLING AND STORAGE

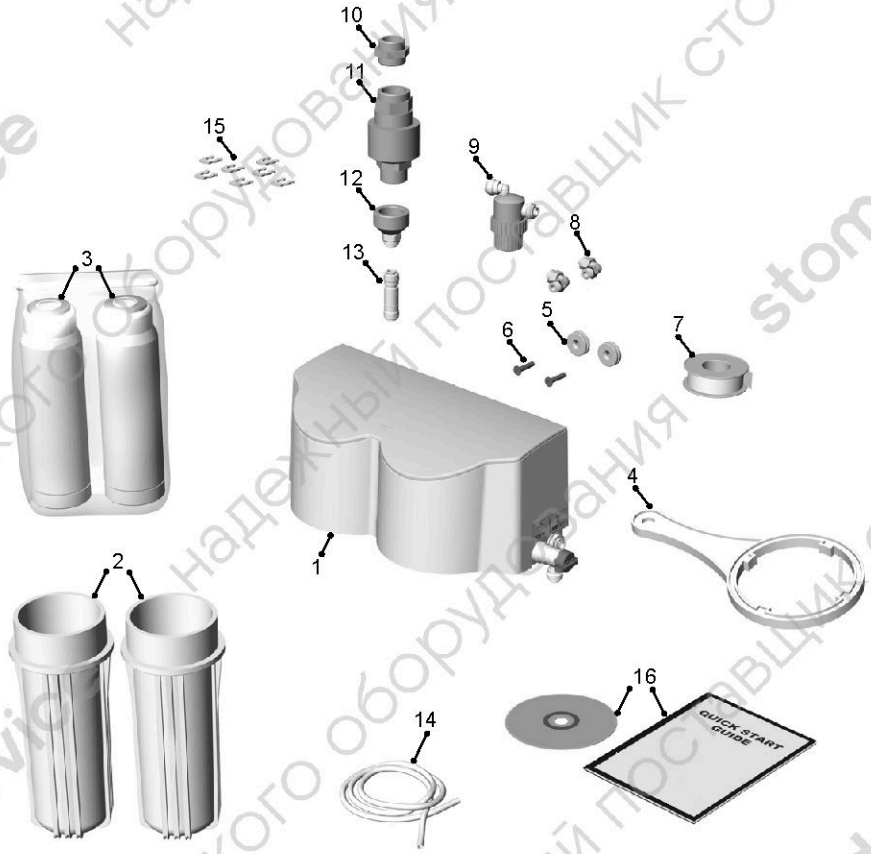
The product must be handled following the instructions given on the packaging.

NOTE
KEEP THE ORIGINAL PACKAGING AND USE IT EACH TIME THE APPLIANCE IS TRANSPORTED. USING DIFFERENT PACKAGING MIGHT CAUSE DAMAGE TO THE PRODUCT DURING TRANSPORT.

WARNING!
FULLY DRAIN OUT THE WATER CONTAINED IN THE DEMINERALIZER BEFORE TRANSPORT.

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DESCRIPTION OF THE CONTENTS



1) Demineralizer body
2) 2 containers
3) 2 resin cartridges
4) Wrench for fitting/removing the containers
5) 2 spacers for hooking the demineralizer onto the autoclave
6) 2 screws
7) Teflon tape
8) 2 PIPU unions for 1/4" Ø tube
9) Net minifilter
10) 1/2" female-3/4" male reducer
11) Safety valve (WATER BLOCK®) with filter and adjustment wrench
12) 3/4" female straight terminal for 1/4"Ø tube
13) Non-return valve EA
14) Filling tube (3 m, 1/4" Ø)
15) 7 1/4" tube holding clips
16) Warranty certificate + declaration of conformity + user manual + quick start guide + CD-ROM

NOTE
THE CUSTOMER MUST KEEP THE WARRANTY CERTIFICATE TOGETHER WITH THE RECEIPT.

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PRODUCT PRESENTATION

Pure 100 is a demineralizer with ion exchange resins, a natural addition to the range of steam sterilizers.
It has an elegant and compact design that combines ease of use and high reliability.
Pure 100 is hence an interesting option for users that require professional devices with an excellent quality/ price/performance ratio.

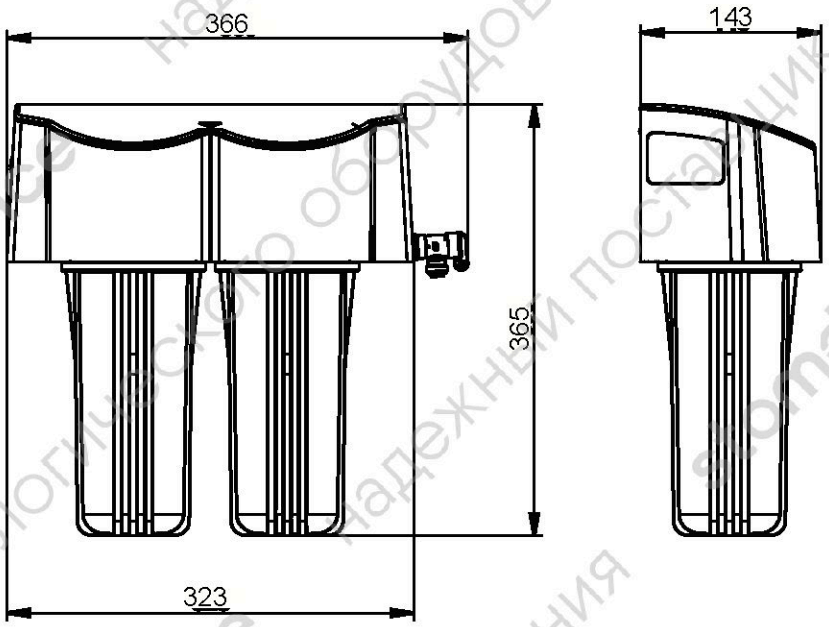
MAIN PERFORMANCES

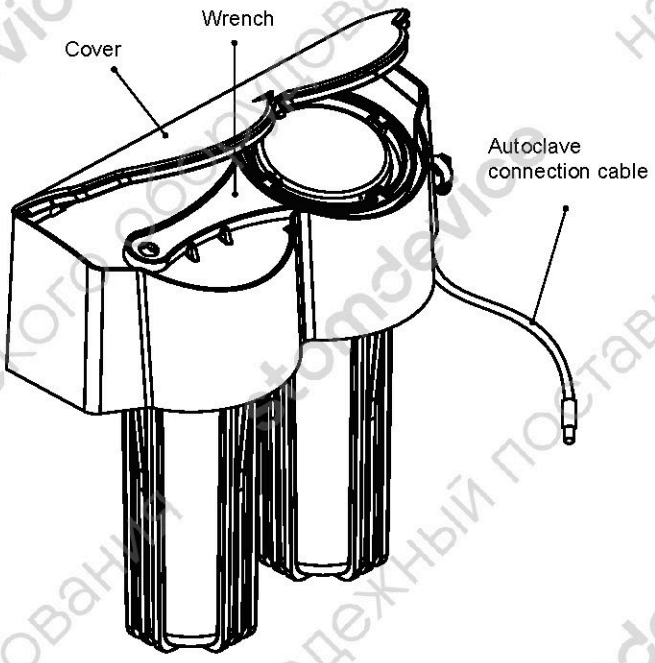
Pure 100 has been designed to demineralize mains drinking water for subsequent automatic feeding into steam sterilizers.

The solid structure in plastic and steel and the ergonomic and essential shape allows maintaining a high level of hygiene, reduced weight and dimensions and excellent stability during use.
All this with the aim of offering a product suited to the daily needs in the medical field.

VIEWS (WITH DIMENSIONS)

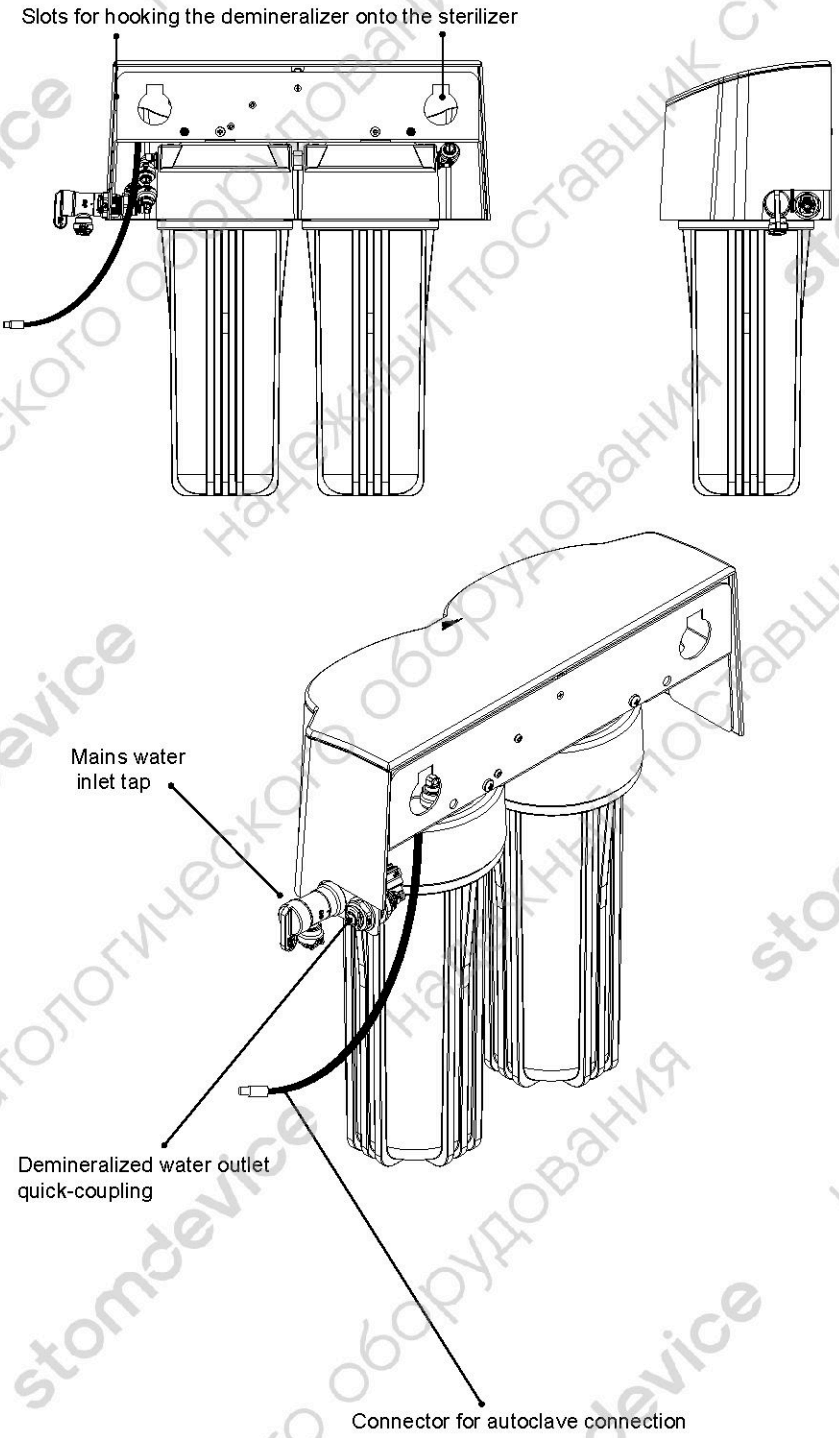
FRONT





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REAR



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INSTALLATION

For good functioning of the demineralizer, the first essential operation to be carried out is proper installation, in order to prevent malfunctions or damage to the appliance. Please **scrupulously** observe the warnings given further on in this section.

☞	**NOTE** THE TECHNICAL SERVICE (SEE APPENDIX Z) IS AT YOUR DISPOSAL, TO CLEAR ANY QUESTIONS OR PROVIDE FURTHER INFORMATION.

GENERAL PRECAUTIONS

- Install Pure 100 on autoclaves using the accessories provided with the demineralizer.
- Do not install in humid or poorly ventilated environments.
- Do not install in environments where there are flammable and/or explosive gases or vapours.
- Install the appliance in such a way that the water tubes are not kinked or crushed.

SAFETY PRECAUTIONS

Described below are the instructions to follow in the event of contact with the ionic exchange resins contained in the Pure 100 demineralizer cartridges.

RISKS ON CONTACT	
Contact with the eyes.	Irritating to eyes (R36).
Contact with the skin.	Slightly irritating to skin.
FIRST AID	
Contact with the eyes.	Immediately and abundantly wash with water and remove all particles.
Contact with the skin.	Take off contaminated clothes.
	Remove the particles and wash the affected area with water.
MEASURES IN THE EVENT OF ACCIDENTAL DISPERSION	
Precautions for persons.	Keep away from persons.
	Pay attention on slippery floors to avoid dropping the appliance.
Decontamination methods.	Collect the product and transfer it to suitable plastic containers for recovery or disposal as indicated.
NOTES ON DISPOSAL	
The used product is non-hazardous special waste.	
The product must be disposed of in compliance with the local, regional or national regulations in force.	
The CER number for saturated or exhausted ionic exchange resins used to prepare drinking water or water for industrial use is: **190905**	

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FITTING THE RESIN CARTRIDGES

Take the pair of ionic exchange resin cartridges out of the accessory kit and then operate as follows:

A) Remove the protective bag of the cartridges and insert them in the relative containers (cartridge seal facing up).

B) Lift the cover of the demineralizer body and remove the container fitting/removal wrench housed inside it.

C) Position both the containers with the cartridges inside them underneath the respective threaded heads on the demineralizer body, then screw in the containers turning clockwise using the wrench (use moderate force).

D) Reposition the wrench in its housing on the demineralizer body and close the cover.



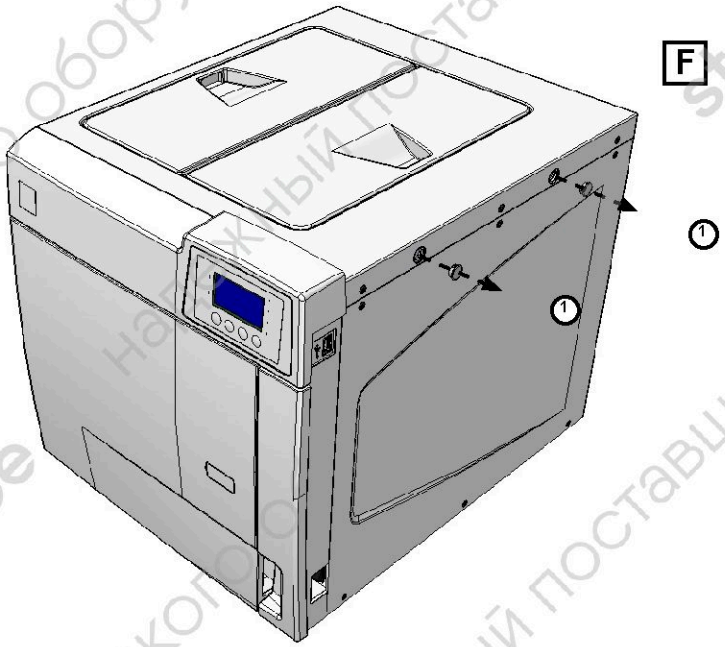
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INSTALLING PURE 100 ON AUTOCLAVES

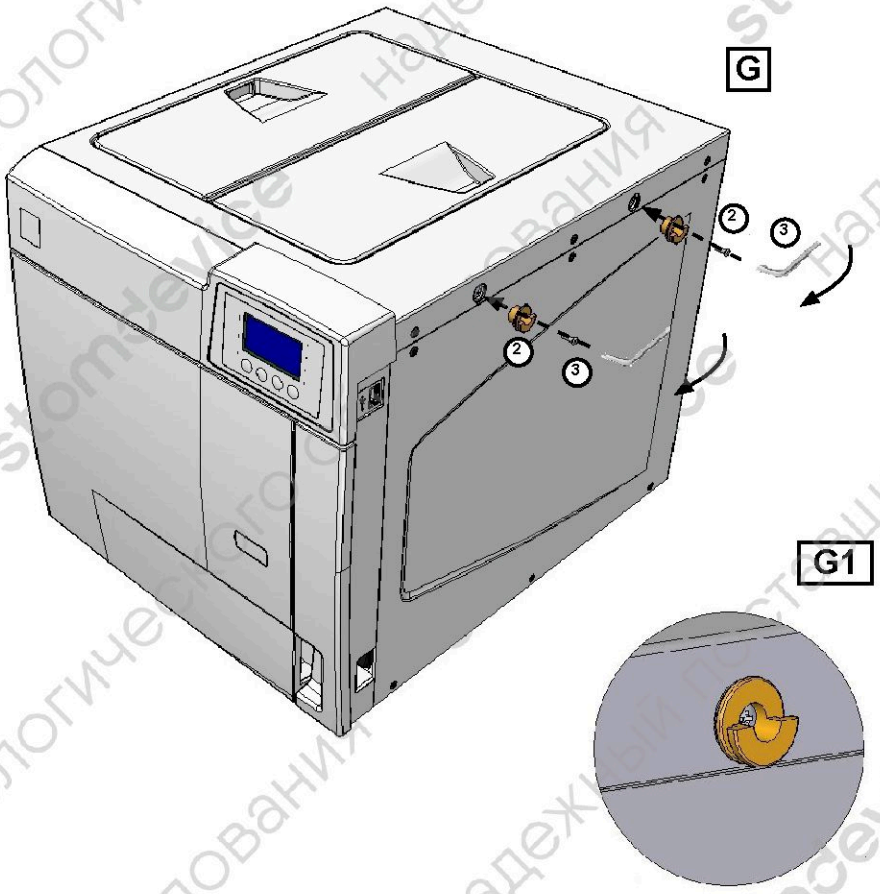
Pure 100 must be installed on the right-hand side of the autoclaves using the devices that form part of the standard equipment of the demineralizer.

E) Take the following out of the accessory kit:
- the two hooking spacers
- the two screws.

F) Remove the two rubber caps (1) that cover the fastenings of the demineralizer on the right-hand side panel of the autoclave.

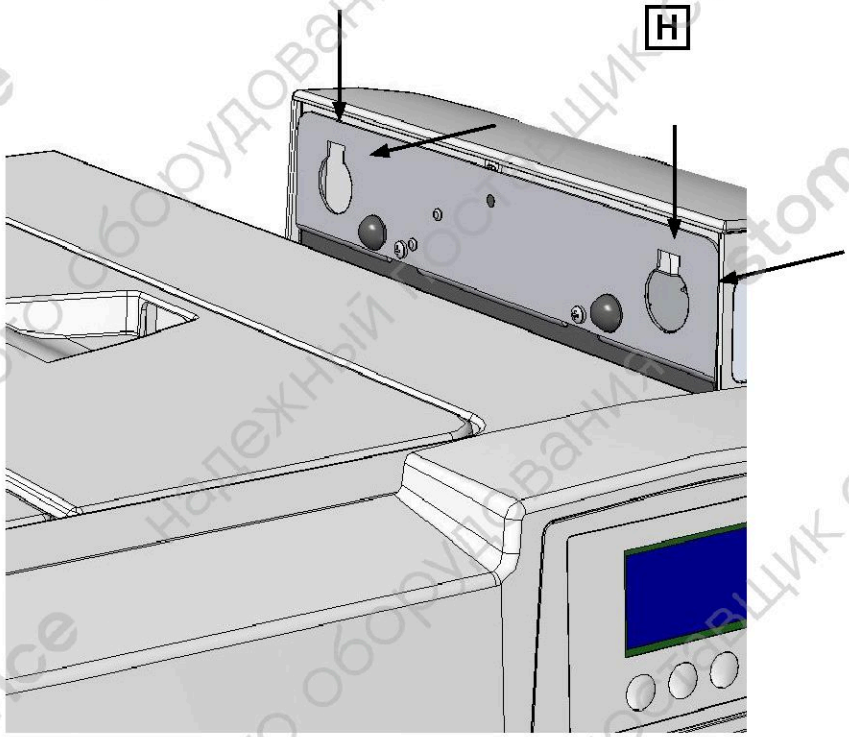


G)Fasten the coupling spacers (2) to the right-hand side of the autoclave with the two screws (3) using a 3mm socket wrench (provided with the sterilizer) making sure that you position them with the flat part facing up (G1).



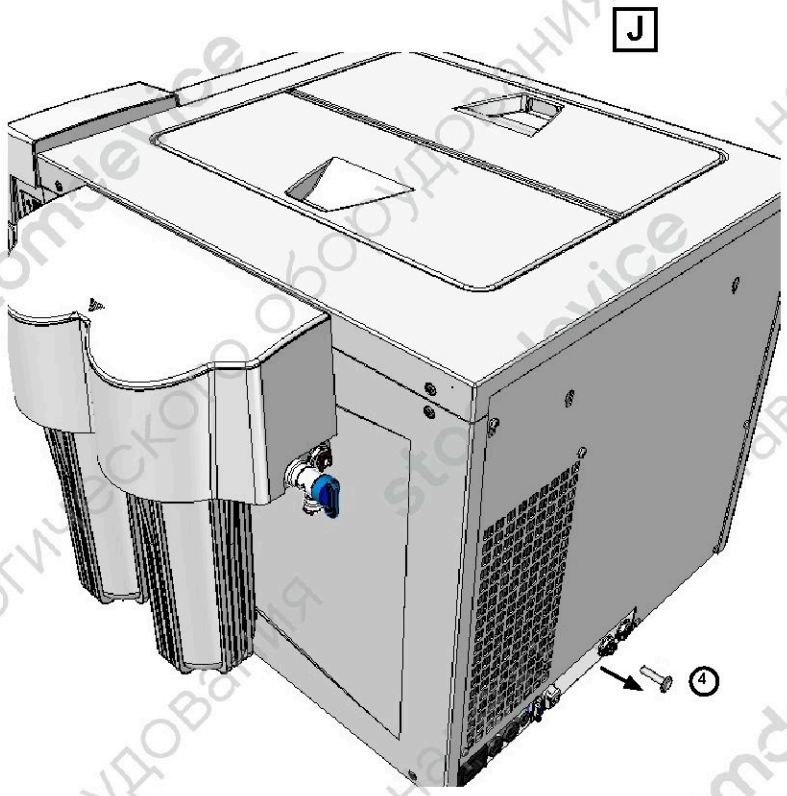
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H)Pick up the demineralizer and hook it onto the autoclave inserting the hooking spacers (previously fitted on the side panel; see point H) in the respective slots on the Pure 100 frame.



I) Once the demineralizer has been positioned, take the following out of the accessory kit:
- the filling tube (3 m, 1/4" Ø)
- 2 spigot unions for 1/4" Ø tube
- the net minifilter
- 2 tube holding clips

J) Remove the tube holding clip and the cap on the rear of the autoclave adapted for automatic filling.



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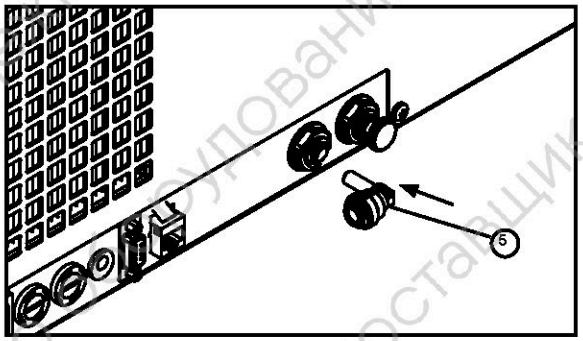
K) Fit 1 spigot union for 1/4" tube (5) to the female union just freed (J) in the rear wall of the autoclave.

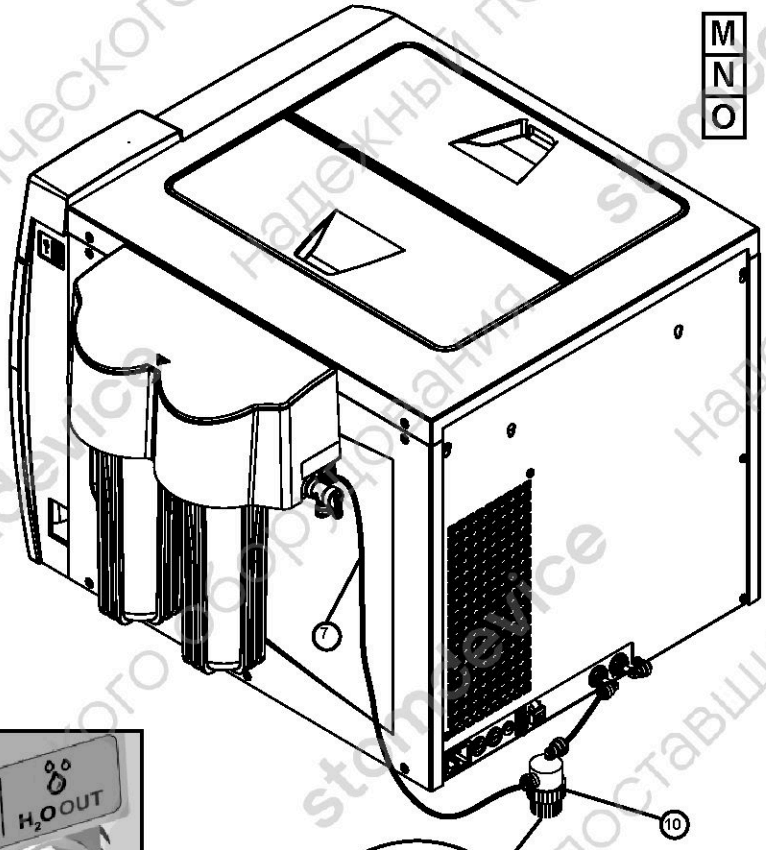
L) Take the tube provided and cut 2 pieces with the following lengths:
- tube (7) = 30 cm
- tube (8) = 20 cm

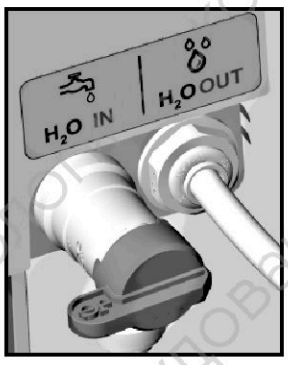
M) Fasten one end of the tube (7) to the demineralized water outlet quick-coupling of Pure 100 and then fasten the other end to the minifilter inlet quick-coupling (10).

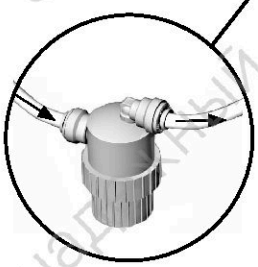
N) Fasten the tube (8) to the minifilter outlet quick-coupling and then fasten the other end to the spigot union for 1/4" tube (5) previously fitted on the autoclave.

O) Fit the tube holding clips in the relative seats of the quick-couplings fitted (to prevent the tubes from accidentally slipping out).









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CONNECTING TO THE WATER MAINS

For Pure 100 to function it needs to be connected to a mains drinking water tap using the devices supplied standard with the demineralizer:

P) Take the following out of the accessory kit:
- the 1/2" female-3/4" male reducer
- the safety valve (WATER BLOCK®)
- the 3/4" female terminal for 1/4" Ø tube
- the non-return valve
- the filling tube (3 m, 1/4" Ø)
- 1 1/8" male elbow union for 1/4" Ø tube
- the Teflon tape
- 3 tube holding clips

Q) Fit the 1/2" female-3/4" male reducer (13) between the tap and the WATER BLOCK® valve(14) only if the tap has a 1/2" male coupling. Use the Teflon tape to secure its fitting.
If the tap has a 3/4" male coupling, the WATER BLOCK® valve can be screwed on directly (put the reducer (13) back in the accessory kit).
N.B. The WATER BLOCK® valve must be positioned vertically as indicated in the instruction leaflet in the relative package.

R) Screw the straight terminal (15) onto the 3/4" male thread on the WATER BLOCK® valve outlet.

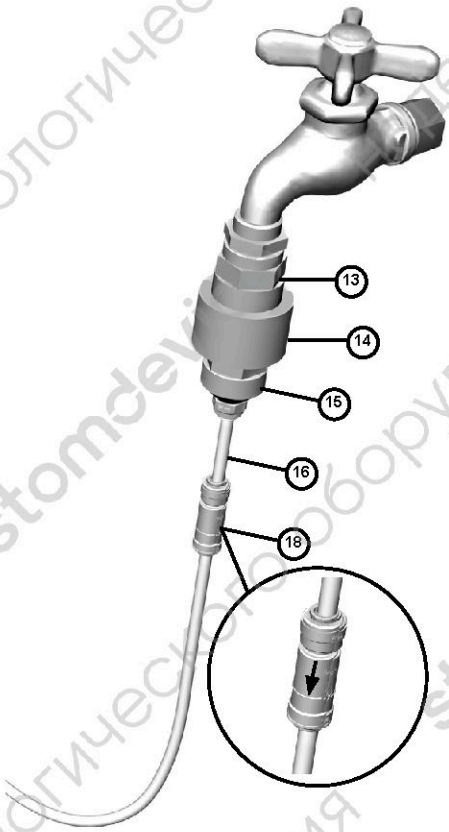
S) Take the tube provided and cut 2 pieces with the following lengths:
- tube 16) = 5 cm
- tube 17) = 200 cm

T) Fasten the tube (16) to the outlet quick-coupling of the straight terminal (15).

U) Take the non-return valve (18) and fit it on the free end of the tube (16).

V) Fasten one end of the tube (17) to the outlet quick-coupling of the non-return valve (18).

W) Fit the tube holding clips in the relative seats of the quick-couplings fitted (to prevent the tubes from accidentally slipping out).

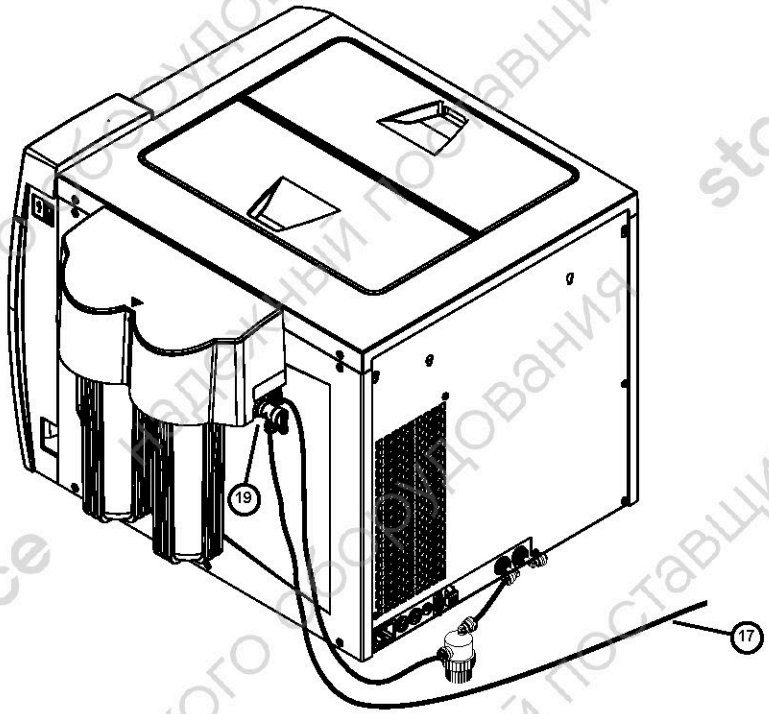


Q R S T U V W

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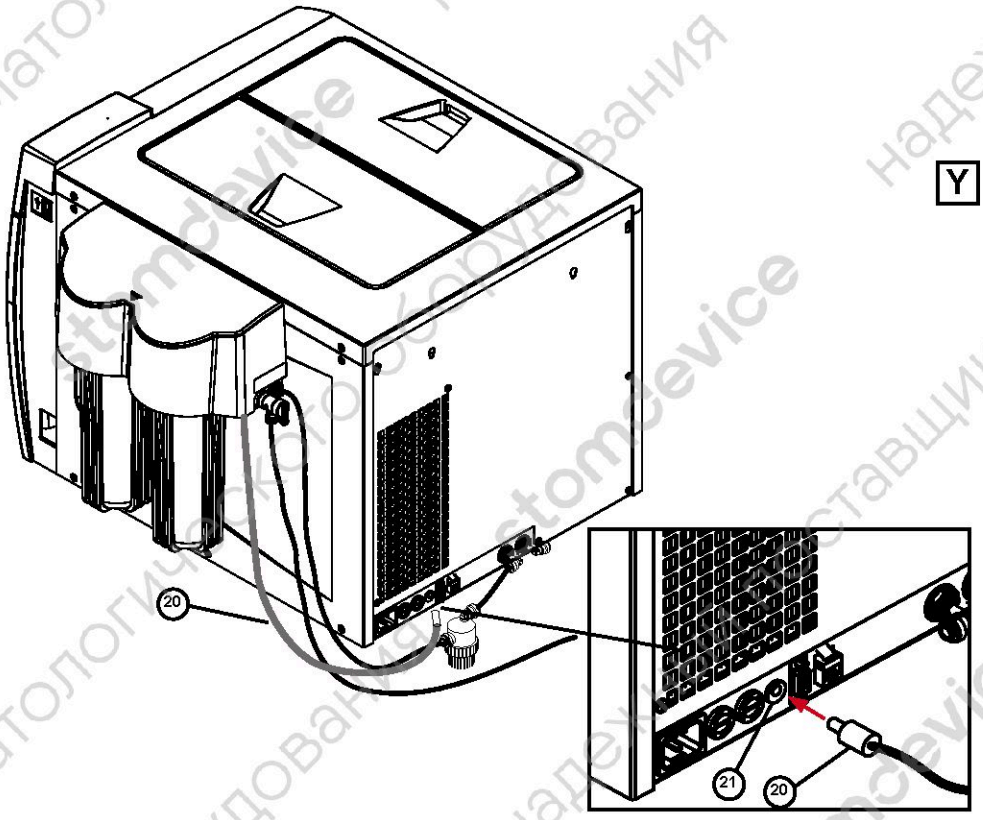
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X) Fasten the other free end of the tube (17) to the Pure 100 inlet (19).



CONNECTION TO THE AUTOCLAVE

Y) Connect the cable leading from the demineralizer (20) to the dedicated connector (21) on the rear of the autoclave.



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OPERATION

FIRST STARTING

In order to start using the Pure 100 demineralizer, all the installation phases must have been correctly carried out:

A) The resin cartridges fitted (par. 4.3.).
B) The demineralizer installed on the autoclave (par. 4.4.).
C) The water mains connected (par. 4.5.).
D) The mains drinking water tap opened.
E) The drinking water inlet tap on the demineralizer body opened (par. 4.6.).
F) Connection to the autoclaves (par. 4.6.)
G) Turning on the autoclave.

Once all these operations have been checked, you can set the autoclave for use of the demineralizer.

⚠	**WARNING** WHEN THE DEMINERALIZER IS TURNED ON OR CONNECTED, THE AUTOCLAVE DETECTS THE PRESENCE OF AN AUTOMATIC FILLING SYSTEM AND ASKS YOU TO SET WHICH SYSTEM HAS BEEN CONNECTED.

⚠	**WARNING!** ALWAYS CLOSE THE MAINS DRINKING WATER TAP AT THE END OF THE WORKING DAY AND BEFORE PROLONGED PERIODS OF INACTIVITY OF THE DEMINERALIZER.

PRECAUTIONS TO PREVENT WATER STAGNATION

Drain out all the water from the demineralizer if it is not to be used for long periods of time.

⚠	**WARNING!** FAILING TO FULLY DRAIN OUT PURE 100 LEADS TO DEGRADATION OF THE WATER QUALITY AND PROLIFERATION OF BACTERIA AS A RESULT OF WATER STAGNATING IN THE DEMINERALIZER TUBES AND IN THE STERILIZER TANKS.

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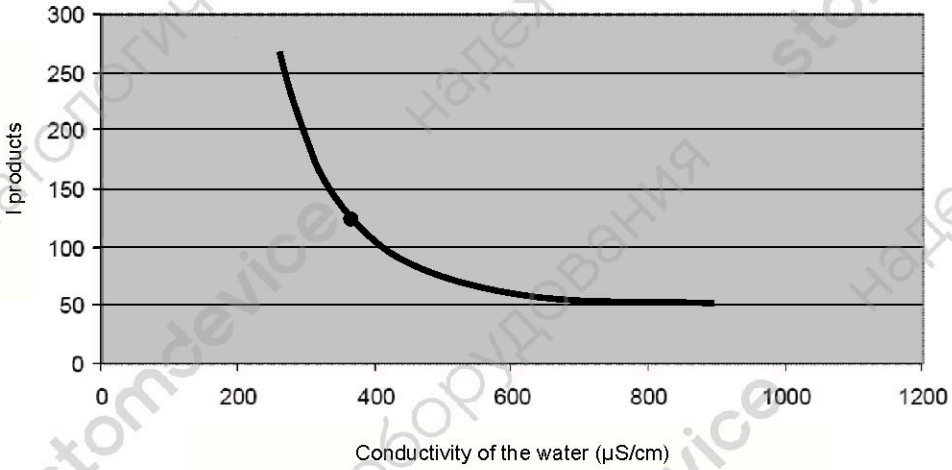
APPENDIX A - TECHNICAL CHARACTERISTICS

SUMMARY TABLE

Model	PURE 100
Manufacturer	CEFLA s.c. Headquarters Via Selice Provinciale 23/A – 40026 Imola (BO) IT
Operating temperature	+5°C ÷ +30°C
Storage temperature	+5°C ÷ +30°C
Dimensions (L x D x H)	366 x 143 x 365 mm
Weight (without cartridges)	3,3 kg
Weight of 2 cartridges	1 kg
Use	Indoors
Power supply voltage	3 VDC supplied by two 1.5V AA batteries*
Incoming water	Tap drinking water
Outgoing water quality	Conductivity < 15µS/cm**
Water mains minimum and maximum pressure	1,5-5 bar
Water mains minimum and maximum temperature	+5°C ÷ +40°C
Demineralized water production	approx. 120 litres***

* Value suggested by the EN 13060 standards

** The quantity of water produced by the ionic exchange resin cartridges depends on the quality and the hardness of the mains water. Refer to the following diagram:



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APPENDIX C - MANTEINANCE

GENERALS

The equipment does not need any special care; it is only recommended that the user cleans it periodically.

In all cases carefully follow the procedure detailed below.

IIn case of replacement of equipment components, request and use ONLY ORIGINAL SPARE PARTS.

EXTERIOR CLEANING

Clean the equipment externally with a clean cloth dampened with water and neuter detergent.

NOTE
- DO NOT USE PRODUCTS CONTAINING ISOPROPYL ALCOHOL (2-PROPANOL,ISO-PROPANOL).
- DO NOT USE PRODUCTS THAT CONTAIN SODIUM HYPOCHLORITE (BLEACH).
- DO NOT USE CLEANERS THAT CONTAIN PHENOL

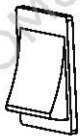
Perfectly dry the surfaces and remove any remaining resistant residue.

Always keep in mind the following general warnings:

- Do not submit the unit to direct water jets, under pressure or sprinkling. Any infiltration on the internal electrical components could irremediably damage its operation;
- Do not use abrasive sponges, metal brushes (or other aggressive materials) or products for cleaning of metal, both solid and liquid.

CARTRIDGE REPLACEMENT

Upon activation of the alarms warning that the conductivity values in the demineralized water produced are higher than the permitted limit (15µS/cm), the ionic exchange resin cartridges need to be replaced:



A)Turn off the autoclave.



B)Drain out the autoclave filling tank (see the sterilizer user manual).



C)Close the mains water inlet tap on the demineralizer body.



D)Remove the containers using the wrench housed under the demineralizer body cover. Drain out the leftover water in the containers, remove the exhausted cartridges and then fit the new cartridges as described in paragraph 4.3. “FITTING THE RESIN CARTRIDGES”. Use a cloth to wipe off the residual water that has flown from the containers and the exhausted cartridges.
Dispose of the exhausted cartridges in compliance with the regulations in force.

WARNING!
USE ONLY ORIGINAL RESIN CARTRIDGES.



E)Open the mains water inlet tap on the demineralizer body.



F)Turn on the sterilizer.

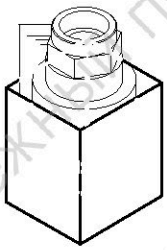
G)Wait for automatic filling of the demineralized water tank of the sterilizer.

ENGLISH

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APPENDIX C - MANTEINANCE

WATER BLOCK® SAFETY VALVE MAINTENANCE



It is recommended to clean the filter at the inlet to the WATER BLOCK® valve periodically. Carefully follow the instructions in the instruction leaflet contained in the relative package.

PERIODIC CHECK OF THE ANTI-BACKFLOW DEVICES

WARNING!

IN COMPLIANCE WITH THE EN1717 STANDARDS, THE WATER BLOCK® SAFETY VALVE AND THE NON-RETURN VALVE MUST BE CHECKED AT LEAST ONCE A YEAR, PREFERABLY AT THE SAME TIME TECHNICAL SERVICE CARRIES OUT THE MAINTENANCE OPERATIONS ON THE STERILIZER.

DISPOSAL AT END-OF-LIFE

In accordance with Directive 2012/19/UE, regarding the reduction in use of dangerous substances in electrical and electronic equipment, as well as waste disposal, such equipment may not be disposed of as normal urban waste and must be separated accordingly. When purchasing a new, equivalent piece of equipment, the old piece of equipment that has reached its end-of-life must be handed over to the reseller for proper disposal. The Manufacturer will carry out the functions defined by individual national legislation with respect to the reuse, recycling and other forms of salvaging of the above-mentioned waste. The proper collection and separation of such equipment for recycling, treatment and disposal helps avoid any possible negative effects on the environment and health and facilitates the recycling of the materials of which the equipment is made. The crossed out rubbish can symbol indicates that the product, at the end-of-life, must be collected separately from other types of waste.

WARNING!

IMPROPER DISPOSAL OF THE PRODUCT RESULTS IN THE APPLICATION OF SANCTIONS WHICH ARE DEFINED BY INDIVIDUAL NATIONAL LAWS.

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APPENDIX D - TROUBLESHOOTING

If the demineralizer does not function properly, carry out the following checks before calling Technical Service:

WARNING	POSSIBLE CAUSE	ACTION
The message “H2O quality insufficient” is shown on the autoclave display.	-The demineralizer is working but is producing demineralized water with conductivity values higher than permitted (resin cartridges exhausted).	-Replace the ionic exchange resin cartridges.

NOTE

IF THE PROBLEM PERSISTS, CONTACT THE TECHNICAL SUPPORT SERVICE (SEE APPENDIX Z) REPORTING THE THERMO-SEALER MODEL AND ITS SERIAL NUMBER.

THESE DATA CAN BE FOUND ON THE FACTORY PLATE PLACES ON THE UNIT REAR.

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APPENDIX Z - CUSTOMER SUPPORT

FOR ANY REQUEST FOR TECHNICAL SERVICE FOR THE PRODUCT,WHETHER IN OR OUT OF WARRANTY, DIRECTLY CONTACT THE TECHNICAL SUPPORT DEPARTMENT OF THE DEALER OR RESELLER THAT SUPPLIED THE PRODUCT.

CEFLA s.c. will gladly provide any information you may need on the product as well as give you suggestions and advice on the steam sterilization procedures.
In this regard, please refer to the following address:

CEFLA s.c.

Plant
Via Bicocca, 14/C 40026 - Imola (BO) IT
Tel. +39 0542 653441 Fax. +39 0542 653555

Headquarters
Via Selice Provinciale 23/A – 40026 Imola (BO) IT

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