

MANUAL
FOR
AUTOCLAVE PORTABLE
(STANDARD)

7407ST

Sr No. Of Autoclave :

V. 1.0

000 «Диаэм»

Москва
ул. Магаданская, д. 7, к. 3 ■ тел./факс: (495) 745-0508 ■ sales@dia-m.ru

www.dia-m.ru

С.-Петербург
+7 (812) 372-6040
spb@dia-m.ru

Новосибирск
+7 (383) 328-0048
nsk@dia-m.ru

Воронеж
+7 (473) 232-4412
vrn@dia-m.ru

Йошкар-Ола
+7 (927) 880-3676
nba@dia-m.ru

Красноярск
+7 (923) 303-0152
krsk@dia-m.ru

Казань
+7 (843) 210-2080
kazan@dia-m.ru

Ростов-на-Дону
+7 (863) 303-5500
rnd@dia-m.ru

Екатеринбург
+7 (912) 658-7606
ekb@dia-m.ru

Кемерово
+7 (923) 158-6753
kemerovo@dia-m.ru

Армения
+7 (094) 01-0173
armenia@dia-m.ru



PACKING LIST

VERTICAL AUTOCLAVE - Portable ST
#7407ST
Sr No of Product :

1	The Autoclave	[]
2	Manual - 1071-00	[]
3	Warranty Card	[]
4	Test Report	[]
5	Pressure Gauge Calibration Certificate and Traceability	[]
6	'X' Stand SS	[]
7	Dressing Drum	[]
8	Spare Gasket	[]
<i>Checked By</i>		




Dear Customer,

- a. Thank you for the confidence in equitron® Portable Autoclave and we hope that it meets your expectations.
- b. Please read this manual thoroughly before starting the equipment and in order to operate it in an efficient manner.
- c. Please use the equipment in accordance to this Manual for keeping it in a good condition.
- d. Please contact the Dealer if the machine encounters a problem. We ensure quality service and customer support.
- e. We operate on a policy of continuous development. Therefore we reserve the right to make changes and improvements to any of the products described in this manual without prior notice.

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MEANING OF SYMBOLS:

	This symbol draws attention to the user manual, for example, <i><u>Check the water level in the chamber and add water before each sterilization cycle.</u></i>
	This symbol warns about hot surfaces and should not be touched during operation
	This symbol indicates location of grounding protection is provided to the <i>Autoclave</i> .

1.0 INTRODUCTION:

1.1 Basic information:

equitron® Portable Autoclave is used for Sterilization purpose. Sterilization may be defined as the statistically complete destruction of all micro organisms including the most resistant bacteria and spores.

1.2 Intended use:

equitron® Portable Autoclave can be used for numerous medical and laboratory applications in market sectors such as food and dairy, universities and colleges, agriculture and healthcare (including Pathology) etc.

- a. The *Autoclaves* are intended to sterilize unwrapped solid instruments and non-porous loads.
- b. Media preparation
- c. Sterilization of media as well as surgical instruments.
- d. For preparing materials for discarding.
- e. Dentistry
- f. Metallurgy
- g. *Autoclaves* are found in many Medical Settings and other places that need to insure sterility of an object.



2.0 UNPACKING:

While unpacking the consignment, please insure that following materials are intact, else contact to dealer / manufacturer.

2.1 Materials Shipped:

- a. The Autoclave
- b. Warranty Card.
- c. Dressing drums as specified.
- d. Test reports
- e. Manual copy

2.2 General safety precautions:

- a. Observe all standard laboratory safety and accident prevention rules and regulations.
- b. The *Autoclaves* are made for **Sterilization Purpose** and should not be used for any other purpose.
- c. Before connecting the equipment to a power socket, please ensure that line supply matches that of the instrument rating.
- d. The autoclave is a pressure vessel. It should be operated only by trained personnel. The autoclave uses steam having temperatures in excess of 100°C, so all due care should be taken while loading/unloading material from the Autoclave.
- e. The autoclave operates on an input voltage of 220~230V AC, 50~60 Hz, Single Phase. Please turn the autoclave off and disconnect it from the mains, before cleaning or servicing the autoclave.
- f. Never touch the steam outlet and the *Autoclave's* outer body when it is in operation. It may cause burns. Equitron medica private limited should not be hold responsible for such inadequate actions.
- g. Don't allow untrained, person to touch the *Autoclave*.
- h. Before using the *Autoclave* make sure that the internal chamber is clean and free from residue.
- i. For effective sterilization, steam needs to penetrate the autoclave load uniformly, so an autoclave must not be overcrowded, and the lids of bottles and containers must be left ajar.
- j. Before opening up the *Autoclave* at end of the cycle, make sure that the depressurization is complete, the pressure gauge is reading "0" psi.
- k. Never apply any force to open an *Autoclave*.
- l. You must use distilled water to extend the life of sterilizer.
- m. It is suggested that you use a matched instrument hand clip to take out the equipment's to avoid scalding.
- n. The *Autoclave* should not operate in an enclosed area like cupboards.
- o. There are no serviceable parts inside the chamber; any authorized personnel should service the equipment.

3.0 INSTALLATION:

3.1 Environmental conditions:

- ✓ Ambient temperature : 5°C-40°C
- ✓ Relative humidity: ≤ 85%

3.2 Utility Requirements:

- a. **Electrical:** The autoclaves #7407 ST needs a 15 A wall socket.

All these connections need proper earthing.

- b. **Water:** Distilled or demineralised water for steam generation.

3.3 Placement:

- a. Place the Autoclave on a level surface, isolated from any major heat and humidity sources.
- b. The room should be well ventilated. The Autoclave should be placed suitably far from walls or other partitions. This will prevent action of hot steam on these surfaces and also allow service personnel easy access to the Autoclave while servicing it.
- c. The Autoclave should be close to a drain to allow easy drainage of the Autoclave

4.0 PROCEDURE:

- a. Open the chamber by turning the lid anti clockwise.
- b. Remove the Dressing Drum but leave the Heater Cover X stand inside.
- c. Pour DISTILLED WATER direct into the Autoclave, up to the Heater Cover X stand.



Please do not spill any chemical or any liquid inside the chamber

- d. Load the material into the Dressing Drum, and put it in the Autoclave, close the lid by turning the lid clockwise.
- e. Turn the machine on using the mains switch.
- f. The vacuum breaker and purge valve automatically vents the internal stale air (purging). You will see steam escaping from the same. Once the chamber is purged of all air, steam pressure will close this valve. This will ensure proper sterilization using steam only.
- g. The pressure will now steadily rise and stabilize between 15 and 16.5 psi. The valve may start leaking lightly from 12 psi onwards, which is normal. The safety valve is purposely set around 16 psi in order to avoid under sterilization.
- h. Keep the material for 20 minutes or as long as required. After the hold time has elapsed, turn the machine off using the mains switch or the MCB.
- i. Open the manual Exhaust Valve (on lid) for releasing the pressure. In case you require to reduce wetness of load, instead of opening the Exhaust Valve on lid, open the Exhaust Valve at side. **BE SURE TO PLACE A CONTAINER OF SUITABLE SIZE BEFORE OPENING THE SIDE EXHAUST VALVE AND OPEN IT SLOWLY AND CAREFULLY. OTHERWISE YOU MAY GET SCALED WITH SUPERHEATED WATER.**

5.0 CLEANING:



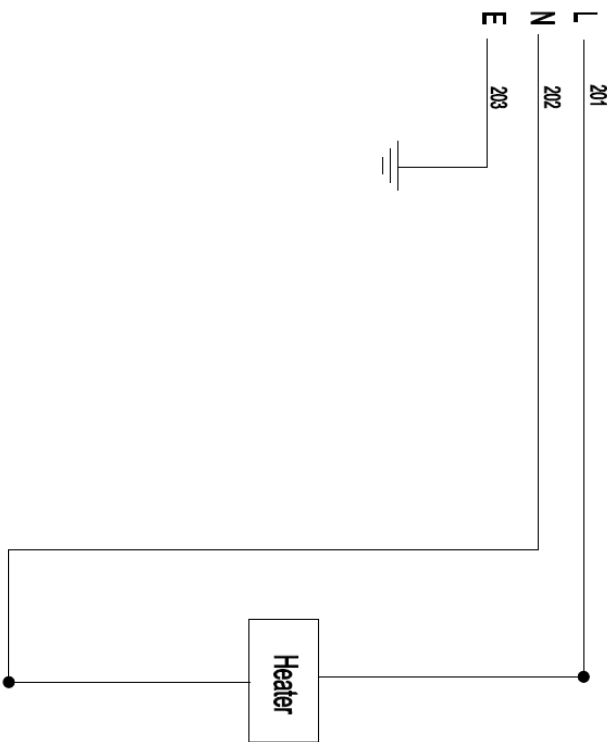
Please clean the autoclave once in a week.

- a. Unplug the Autoclave.
- b. To clean the chamber, remove all the water from the Autoclave.
- c. After the chamber is emptied, clean it with a moist damp cloth. A mild soap solution may be used if necessary. Ensure that you do not spill water over the control panel.

6.0 SPECIFICATIONS :

Chamber Size (Ø x Depth)	cm	30 x 23
	cm	Dressing Drum 27 x 22
Heater	kW	1.8
Voltage		220~230V AC,50~60 Hz,Single Phase

7.0 Wiring Diagram

<p>All information in this document is confidential & should not be used without prior consent of Equitron Medical Private Limited.</p>										
										
NO.	ISSUED FOR APPROVAL	REVISIONS DESCRIPTION	DATE	SIGN	DRAWN DATE		<div style="display: flex; align-items: center;"> <p>EQUITRON MEDICA PRIVATE LIMITED MUMBAI 400013</p> </div>			
					DRAWN BY	CHECKED BY				APPROVED BY
			21-10-2016	SALLS		21-08-2018	<p>ТITLE - WIRING DIAGRAM OF 7407 ST - Portable ST</p>			
							<p>DRG NO:- 47-7407ST-47-Portable ST</p>			
								SCALE: N.T.S	SIZE: A4	REV: 00
										SHEET: 1/1

WARRANTY

Scope:

- a. This warranty extends only to the original buyer & may not be extended to a third party without a written consent of manufacturer.
- b. All products of EQUITRON MEDICA PRIVATE LIMITED are warranted against manufacturing defects for a period of one year from the date of Invoice.
- c. An authorized EQUITRON MEDICA PRIVATE LIMITED dealer will repair the device free of charge, provide required parts (except for the exceptions noted below) and perform labor free of charge during the warranty period.

Restriction:

- a. This warranty does not apply if an attempt has been made to repair, rectify alter or dismantle the product by an unauthorised person.
- b. This warranty also does not cover damages resulting from accident, mishandling, negligence and breakage in transit.
- c. This warranty covers only the main instrument & manufacturer shall not be liable for damages to any accessory connected to it.
- d. Under no circumstances would we be liable for any consequential loss, damage or suffering due to any malfunctioning of our product, bonafide or otherwise.

Exclusion:

- a. All Consumables.
- b. Items like Heaters, Pressure / Compound / Vacuum Gauges, Pilot Lamps, Lamps - all kinds and Switches are excluded form the scope of warranty.

Sr No of the product:

Контакты сервисных центров

Сервисный центр Диаэм в Москве:

Адрес: 129345, г. Москва, ул. Магаданская, д.7, корп.3

Тел.: 8 (800) 234-05-08, +7 (495) 745-05-08

service@dia-m.ru, www.dia-m.ru

Сервисный центр Диаэм в Новосибирске:

Адрес: 630090, Новосибирск, Академгородок, пр. Ак. Лаврентьева, 6/1, офис 100А

Тел.: 8 (800) 234-05-08, +7 (495) 745-05-08

service@dia-m.ru, www.dia-m.ru

Сервисный центр Диаэм в Казани:

Адрес: 420111, Казань, ул. Профсоюзная, д.40-42, пом. № 8

Тел.: 8 (800) 234-05-08, +7 (495) 745-05-08

service@dia-m.ru, www.dia-m.ru

Сервисный центр Диаэм в Санкт-Петербурге:

Адрес: 197022, Санкт-Петербург, ул. Профессора Попова, д. 23, лит. Д, офис 614 (БЦ «Гайот»)

Тел.: 8 (800) 234-05-08, +7 (495) 745-05-08

service@dia-m.ru, www.dia-m.ru

