

EQUICLAVE®

MEDIA PREPARATOR
cum **A U T O C L A V E**



The new **EQUICLAVE** Media Preparator cum Autoclave from Medica - a firm with over 40 years experience in manufacturing autoclaves - offers utmost ease of use. **EQUICLAVE** ensures foolproof aseptic handling of media right up to pouring stage, reproducible results, user convenience & safety.





MEDIA PREPARATOR cum A U T O C L A V E

Applications:

- ❖ Pharma & Biotech industries.
- ❖ Food research & quality assurance labs.
- ❖ Agriculture research & quality assurance lab.
- ❖ Health care & diagnostic labs.
- ❖ Veterinary diagnostic labs.
- ❖ Universities.

EQUICLAVE Advantages:

- ❖ Prepares liquid media agar - 3~9 lit in #7415-09 & 12~27 lit in #7415-27.
- ❖ It autoclaves/sterilizes & cools the media to user settable temperature within 60-110 minutes.
- ❖ Continuous stirring throughout the cycle assures proper mixing of media & uniformity.
- ❖ Separate large addition port provided for adding nutrient / blood.
- ❖ Controls actual media temperature as temperature probe is kept immersed in media.
- ❖ Media sterilization temperature range: up to 122°C.
- ❖ Media dispensing temp range: 40~80°C.
- ❖ Removable / exchangeable media vessels & hence easy to clean and enables back to back preparation of different media.
- ❖ Equiclave is suitable for connecting to any petri dish filling line.
- ❖ Inbuilt support pressure mechanism/system avoids over boiling of media during cooling phase.
- ❖ Online printing to DMP printer with complete cycle information & temperature readings.



Construction:

- ❖ Internal chamber, Media container & lid alongwith all wetted parts fabricated from stainless steel or special food grade plastic.
- ❖ Single lever pronged closure system for Lid with a patented silicon gasket (registered design N. 208774).
- ❖ Easy lift & closing of the lid by assisted support.
- ❖ Easy access to all the components due to modular design.
- ❖ Built in pressure pump to prevent flash boiling.
- ❖ Large diameter addition port on lid.
- ❖ Special inbuilt magnetic stirrer.
- ❖ Removable stainless steel media container.



Control system:

At the heart of the *EQUICLAVE* - Media Preparator is a PLC with touch screen graphic display which provides higher accuracy, repeatability & user level flexibility. Thus making it operator friendly.

All the program data, critical parameters, process status & alarms are clearly displayed on the touch screen monitor. PLC controls & monitors each & every parameter.

- ❖ Online F_0 calculation.
- ❖ Corrective action program on power failure.
- ❖ Corrective action program on low sterilization temperature.
- ❖ Prints relevant cycle information with detail temperature reading & F_0 value to DMP printer (Printer not part of standard supply).
- ❖ Provides total user flexibility, User settable:
 - Sterilization temperature
 - Sterilisation Hold time
 - Dispense temperature
 - Dispense time
 - Print start temperature
 - Print interval



Safety:

- ❖ Low water level detection.
- ❖ Raw water under / over pressure detection.
- ❖ Alarms for sensor break.
- ❖ Door interlock for residual pressure.
- ❖ Dispense & addition port lid open alarm.
- ❖ Dispense & addition port lid locked under pressure.
- ❖ Spring loaded safety valve for over pressure.
- ❖ Independent thermal cut off for high temperature.
- ❖ MCB for electrical safety.
- ❖ Every chamber is hydraulically tested to twice its operating pressure. All EQUICLAVE products are manufactured with extreme care set as per ISO13485:2003. Each & every stage including raw material inward stage, processing & manufacturing is inspected by qualified engineers. All the products are finally calibrated, tested & validated in QC by qualified & experienced engineers & confirmed for desired performance.



Utility:

- ❖ **Supply:** Single Phase, 230 Vac, 50 Hz , 18Amp.
- ❖ **Water Supply:** Demineralised / purified water line with hardness & temperature less than <21 (German) & 30°C respectively. Minimum 2 bar pressure & Maximum 4 bar.
- ❖ **Exhaust /Drain line:** Capable of handling 121°C. steam / water.
- ❖ **Foot Print:** 750 x 650 mm.

Optional Accessories:

Peristaltic Pump:

It is used to dispense the required quantity of media from media preparator.

- Programmable fill volume.
- Programmable suck back to prevent dripping.
- Fill by revolution count for better accuracy.
- Copy function for repeat fill.
- Signals for synchronising with filling line.

Raw Water Filter:

Raw (Cooling) water with high TDS will increase the scalling, thus it will reduce the efficiency of EQUICLAVE considerably. The filter cum softening assembly for EQUICLAVE is essential, if the cooling water hardness is high.





Optional Accessories:

Booster Water Pump: #S4305-12

A booster pump would be essential where pressurised (2-4 bar) raw / cooling water is not available. The booster pump will increase the raw / cooling water pressure to match the requirement to operate the media preparator.

SPECIFICATION:

Model	#7415-09	#7415-27
Size of media container	Ø280 x 250 mm approx.	Ø300 x 500 mm approx.
Capacity	3 ~ 9 Ltr.	9 ~ 27 Ltr.
Sterilization Temp	Max up to to 122.0°C.	
Sterilization Timer	1~99 minutes.	
Dispense Temp	40°C ~ 80°C.	
Dispense Timer	1~999 minutes.	
Print Interval	12 seconds ~ 5 minutes.	
Stirring Speed	70 RPM.	
Display	5 x 7 Monochrome Touch Screen display.	
Online Printing Option	Standard part of supply - to DMP printer (Printer not included).	

Model	Product	Capacity	External Dimension L/W/D in mm
#7415-09	Media Preparator cum Autoclave	9 Ltr	750 x 650 x 500
#7415-27	Media Preparator cum Autoclave	27Ltr	1055 x 665 x106
#S4305-70	Peristaltic Pump	--	200 x 200 x 250
#S1104-50	Raw Water Filter	--	280 x 160 x 250
#S4305-12	Booster Water Pump	--	--
#S3101-53	Media Container	9 Ltr	--
#S3101-54	Media Container	27 Ltr	--

All electrical appliances work on 230 VAC, 50Hz, single phase.
Due to continuous improvement in design, the product supplied may have modified features.



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