

equitron[®]

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



The new **EQUITRON** Media Preparator cum Autoclave from Medica - a firm with over 40 years experience in manufacturing autoclaves - offers utmost ease of use. **EQUITRON** 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.

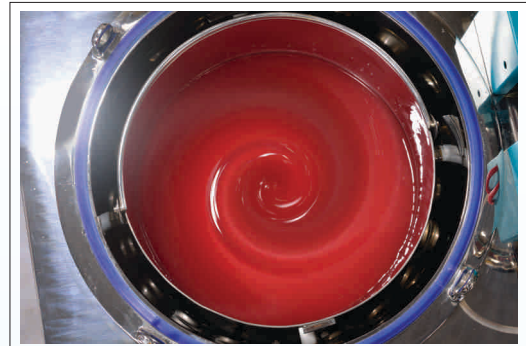
EQUITRON Advantages:

- ❖ 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.
- ❖ Equitron 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 *EQUITRON* - 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 *EQUITRON* 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.



Utilities:

	#7415-09	#7415-27
Supply	230 VAC, 50 Hz, 18Amp, Single Phase,	415 VAC, 50 Hz, 60Amp, Three Phase + 1 N
Water Supply	Deminerilised / purified water line with hardness & temperature <2.8 (German) & 30°C respectively. Minimum 2 bar pressure & Maximum 4 bar.	
Exhaust / Drain Line	Capable of handling 121°C. steam / water.	
Foot Print	820 x 580 mm	970 x 680 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 *EQUITRON* considerably. The filter cum softening assembly for *EQUITRON* 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 approx.	
Online Printing Option	Standard part of supply - to DMP printer (Printer not included).	
External Dimensions WxDxH (mm)	830 x 590 x 1030	980 x 690 x 1140

OPTIONAL ACCESSORIES:

Model	Product	Capacity
#S4305-70	Peristaltic Pump	–
#7699-00	Raw Water Filter	--
#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.

