

VWR® Media Preparator Premium 15



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Simplifying Culture Media Preparation

A space saving system equipped with everything needed to simplify culture media preparation and speed up the process.

Easy to use – Advanced technology – Time saving – Economical



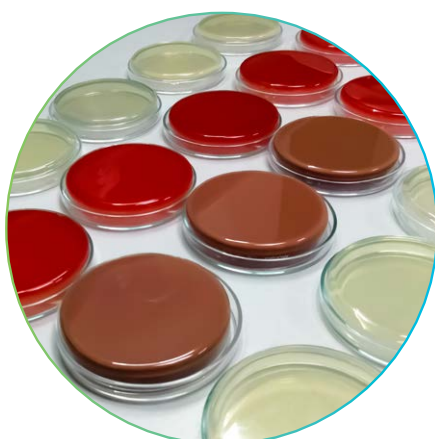
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VWR® Media Preparator Premium 15

SIMPLIFYING CULTURE MEDIA PREPARATION

The VWR Media Preparator Premium 15 (MPP15) is equipped with everything that simplifies the production of culture media and accelerates the process. The medium is effectively mixed, heated, sterilised and quickly cooled to the desired filling temperature right from the start. For the filling process, the medium is kept stable at the selected filling temperature.

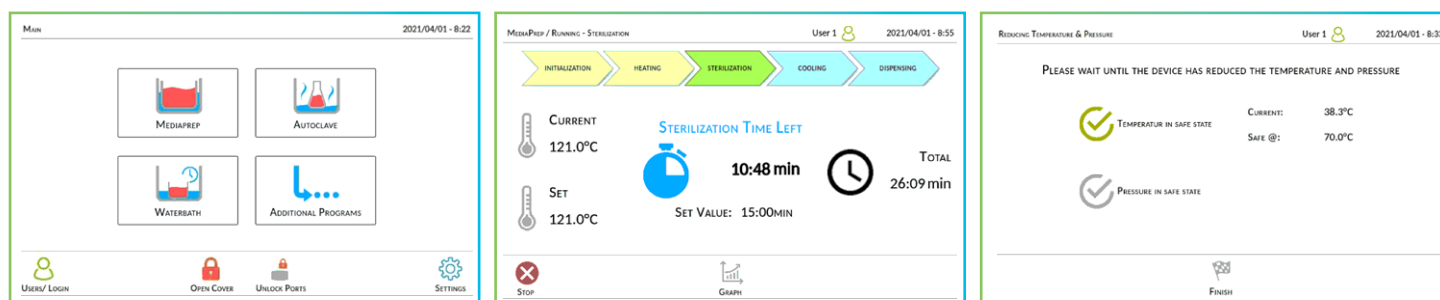
Besides the pressure dispensing of media, the MPP15 can also be used to for autoclaving / sterilisation of small objects and liquids in separate containers, or as a heating bath for maintaining temperature conditions in media



USER BENEFITS

On-screen support.

Designed for ease of use, the MPP15 is controlled via a large integral screen using a suite of powerful icon-based software that intuitively guides you through the culture media preparation process with on-screen support.



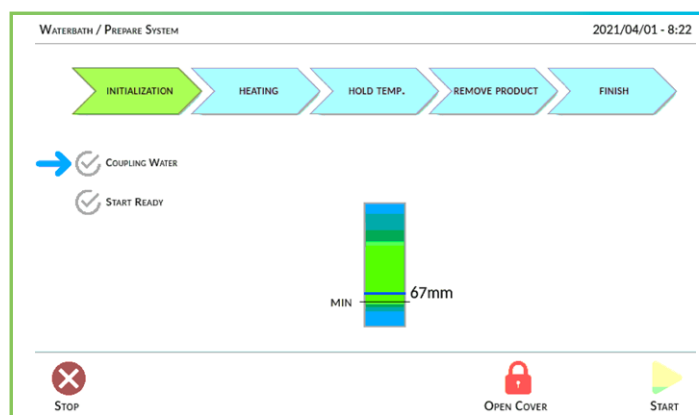
Close lid – start

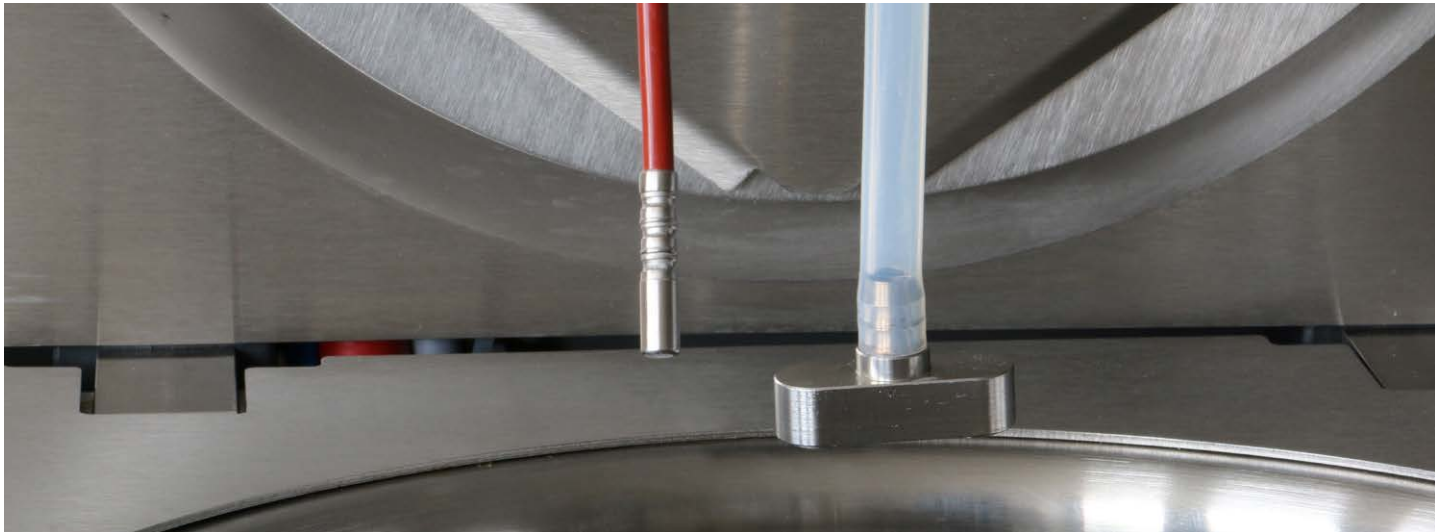
The MPP15 is equipped with a well-balanced and insulated pressure lid, sealing the system to automatically start media preparation. All operating conditions are automatically checked to ensure the culture medium is effectively mixed, heated, sterilised and quickly cooled to the desired filling temperature right from the start. For the filling process, the medium is kept stable at the selected filling temperature.

Closing the pressure vessel is easy to do – the rest is done automatically

Convenient launch control

The MPP15 logically guides the user through the start-up procedure. All conditions are automatically checked, and the cooling water level is precisely measured and displayed on the screen. The tightness is checked, ports are closed correctly, and the process can start on users' confirmation. In the large display, the process is graphically displayed, and the remaining time shown until the filling temperature is reached.





Economical up to the last millilitre



Increased contamination safety



Increased contamination safety

Energy efficient production

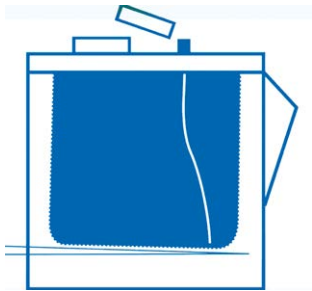
At the heart of the MPP15 is the unique, highly effective thermal boiler heating technology that delivers energy efficient production. The compact boiler is integrated in the housing, the pressure vessel is well insulated, and the integrated heat exchanger significantly reduces cooling water consumption compared to flow cooling.

Increased contamination safety

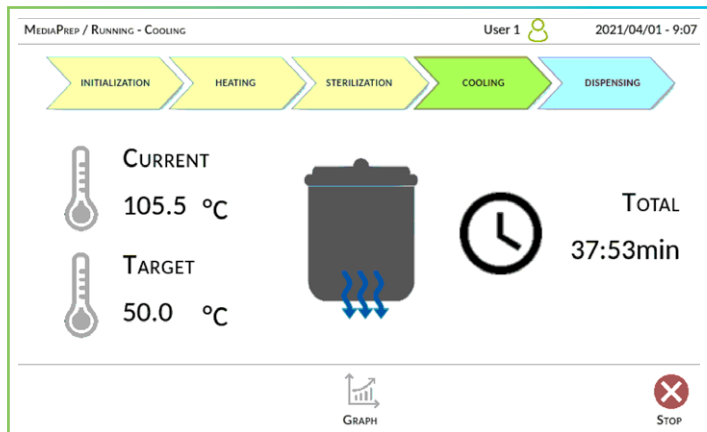
The MPP15 unlocks the lid when the filling temperature is reached, and the pre-sterilised auto-lock hose connection only needs to be connected (click closure). The connection seals itself without screw connection or additional fuse. This innovative pre-sterilised auto-lock hose connection minimises the connection time to your media filler while maintaining a contamination-free environment.

Economical up to the last millilitre

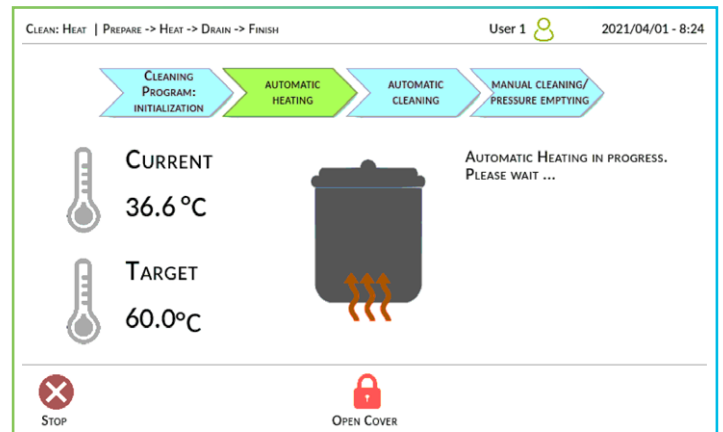
The MPP15 is designed to be economical down to the last milliliters of your culture media, with the sampling tube automatically centring itself at the lowest point of the vessel (cuvette).



Tilted 1° for less waste.



Full control



Save time when cleaning



Safety

Full control

Operating states and all technical components can be shown or hidden at any time at the push of a button (Technical Display Overlay).

Safety

Operator safety is paramount in the design of the MPP15.

The pressure vessel closure is automatic and depends on temperature and pressure. Additional mechanical locking devices secure the device even in a powerless state. Medium addition and removal ports are automatically locked against opening in the hot / or pressure state. Unintentional opening is not possible.



Save time when cleaning

During the development of the MPP15, special emphasis was put on smooth surfaces on the outside and inside of the system. After removal of the vessel (cuvette), there are no heating elements or any other fittings to get in the way, so the pressure vessel can be easily cleaned right down to the bottom. In addition, the MPP15 is equipped with an automatic self-cleaning program, whereby the entire system with all hoses and valves can be quickly and effectively automatically rinsed with heated water ready for your next media preparation routine.



Compact space saving design – all the way to the back wall

The MPP15 has an extremely compact housing designed and can be pushed all the way to the wall on a laboratory bench. The pressure cover dips into the housing when opened and does not require any additional space at the back. The water hoses and the sterile filter are elegantly arranged in service channels.

Variability

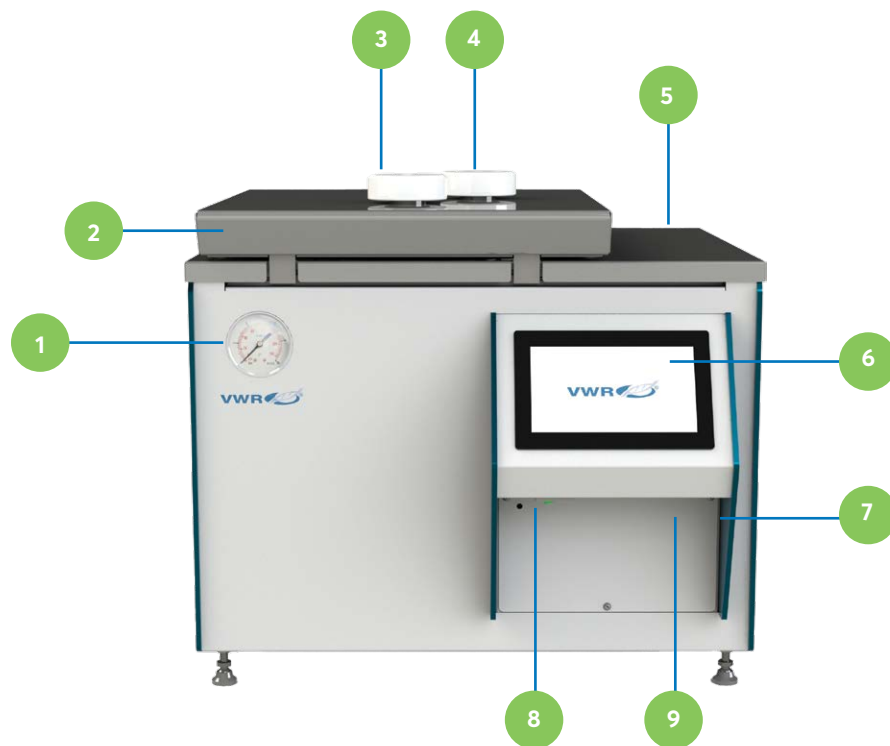
The MPP15 can be connected to any Petri fillers to simplify and automate the sterile reproducible filling and stacking of Petri dishes with agar. If you combine the VWR Medium Preparator Premium 15 with a tube filler, even larger series of tubes in existing racks can be automatically filled.

Modern control and advanced technology

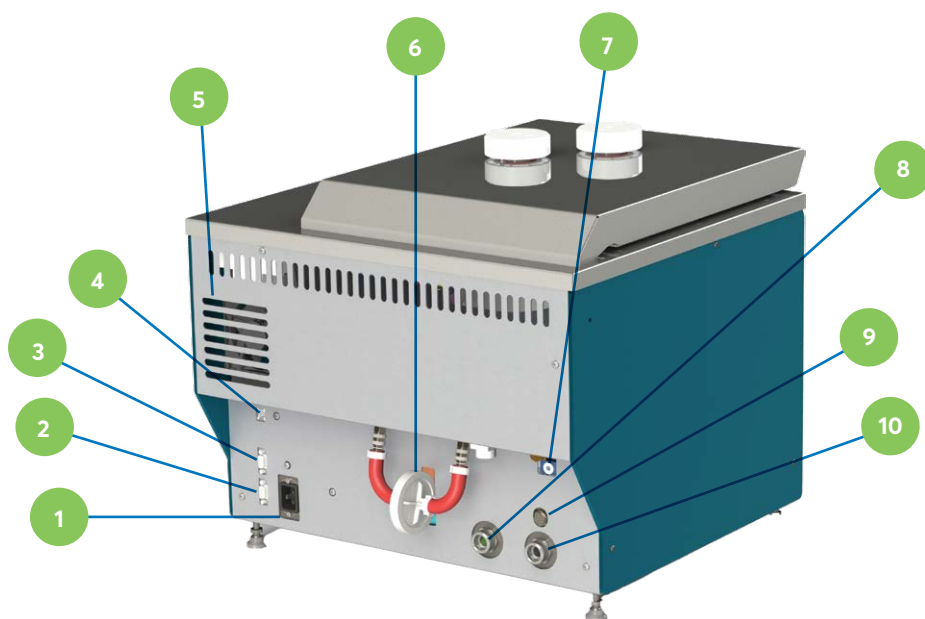
The MPP15 culture media preparator is equipped with a fully programmable microprocessor control.

Thanks to its advanced technology it can efficiently heat, mix, sterilise and cool.

Equipment overview



- 1 Manometer
- 2 Isolated device cover
- 3 Dispense port
- 4 Adding port
- 5 Storage space
- 6 Display
- 7 USB port
- 8 Main switch
- 9 Cover plate for options (printer and valve for dispensing, etc)



- 1 Power connector plug
- 2 RS232 connector
- 3 CAN connector
- 4 Ethernet connection (10/100 Mbit)
- 5 Fan for cooling electronics
- 6 Sterile filter set
- 7 Pressure safety valve
- 8 Outlet port (air/water/steam)
- 9 Flow regulator for cooling water
- 10 Cooling water inlet

TECHNICAL SPECIFICATIONS

Description	Value
Dimensions (HxWxD)	50x56x58 cm (lid open: H = 83 cm)
Weight	64 kg
Ideal working Volume in Media preparation Mode	2,5 - 15,5 L (vessel)
Accuracy	±0,5 °C (resolution: 0,1 °C)
Maximum sterilisation temperature	122 °C
Power consumption	3500 W
Operating voltage	AC 200 – 240 V 50/60 Hz
Fuse	16 A
Water connection	3/4"
Maximum process pressure	1,8 bar
Safety valve	2,0 bar
Place of use	Indoor use only
Altitude	0 – 2000 m a.s.l.
Relative humidity	Max. 80%
Line voltage fluctuations	±10%
Air pollution level	Degree of pollution 2 (IEC EN 61010-1)
Over voltage category	II
Ambient temperature	10...30 °C
Cooling water	5...30 °C 0,8 – 5 bar
Air filter	0,2 um PTFE sterile filter

ORDERING INFORMATION

Description	Cat. No.
VWR Media Preparator Premium 15 (MPP15)	710-2220
Included in standard delivery	
Medium vessel (cuvette)	710-2224
Magnetic stirrer	710-2225
Filter set 0,2 µm, sterile	710-2221
Quick connector	710-2226
Drain sieve, fine mesh steel	710-2223
Magnetic extraction connector	710-2228





Filter set



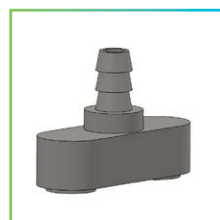
Medium inner vessel



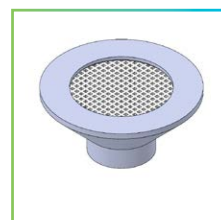
Magnetic stirring bar



Quick connector
for tubes



Magnetic
extraction connector



Drain sieve

REPLACEABLE ACCESSORIES

Description	Cat. No.
Filter set 0,2 µm, sterile	
Pre-assembled, with 2 quick-connectors, pressure tube and sterile filter. For yearly service, mounted on unit backwall (outside)	710-2221
Medium inner vessel (cuvette) 15 L - stainless steel, with handle	710-2224
Magnetic stirring bar	
Power magnet stirrer bar (Neodym), white POM and stainless steel mixing blades for homogenous medium mix	710-2225
Self-sealing quick connector for tubes	
Decanting connector, stainless steel, autoclavable	710-2226
Magnetic extraction connector (Including tube to extract medium from vessel)	
Auto-positioning, for efficient high yield extraction of remaining medium	710-2228
Drain sieve, fine mesh steel	710-2223
Parts for use as autoclave	
Basket	710-2232
Base plate	710-2231

Installation and after sales service

Contact our local technical sales support for
IQ/OQ installation or services.

https://www.vwr.com/avantor_services



Setting science in motion to create a better world



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