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## Media Preparation Masterclave M528 Media Preparator



**5 to 28 litre capacity**

**Up to 40 user defined programmes  
can be stored for different media  
cycles**

**Sterilisation temperature 95-125°C**

**Dispensing temperature 30 - 80°C**

**Large additions port**

The Masterclave M528 is the latest media preparator from AES Laboratoire - manufacturers of automated media preparation instrumentation for over twenty-five years. The unit produces agar, broth or diluent in any amount from 5 to 28 litres. High quality media is made quickly and easily thanks to the multiple heating elements, rapid cooling system and powerful stirring mechanism.

Assisted by the intuitive operating software and user interface you can create customised, pre-programmed cycles.

If you wish to prepare diluent – then optional quick release fittings enable the unit to be disconnected for movement to other areas of your laboratory.

This unit is supplied ready to connect to numerous pouring devices including plate pourers, peristaltic pumps and gravimetric diluters.

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The Masterclave M528 can be used to prepare agar, broth and diluent.

Media can be dispensed by connecting the Masterclave 528 to a variety of pumps including pourer stackers, gravimetric diluters and peristaltic pumps.

All these devices are easily connected to the preparator via an integral priming tube.

At full capacity the unit produces:



1550 x 18ml  
pre-poured  
Petri dishes

APS 320 Pourer Stacker

or: 311 x 90ml diluent volumes



Dilumat 4 Gravimetric Diluter

or: 3100 x 9ml serial dilutions



XY500 + PM05 Pump

## System features

Utilising powerful heating elements and a rapid cooling system, the Masterclave M528 will produce between 5 - 28 litres of media in 80 to 100 minutes, depending on the quantity required.

The safety cover has a scratch-resistant surface and a viewing window to allow visibility of the ports and lid while a cycle is in progress.

Masterclave M528 is fitted with large, lockable wheels so it can be manoeuvred safely and easily – either elsewhere within your laboratory for diluting activities, or simply to aid cleaning in the media preparation area. For ease of cleaning, the stainless steel inner vessel is fitted with a drain enabling you to quickly empty and clean the instrument when a cycle is complete.

## Ease of use / Running a cycle

Traditionally media preparators are equipped with complicated lid-locking devices that can be difficult to use and prone to malfunction. The M528 has a pneumatically assisted, stainless steel lid fitted with a single closing clip – very easy to open, close and secure.

Running a cycle is straight-forward. Media and water are added to the vessel; a programme is selected from one of up to 40 user-defined programmes and the cycle starts. You can easily create your own programmes – including setting an initial stirring time to ensure the powder has dissolved adequately before closing the lid to permit the cycle to commence.

Additives and supplements can be introduced conveniently through a large additions port.

A large, magnetically driven stirring blade is fitted in the vessel and can be removed easily for cleaning. The speed of rotation of the stirring blade is electronically adjusted to optimise conditions during production and dispensing. This ensures media of the highest possible quality – with no air bubbles.

## Traceability

The entire range of Masterclave media preparators offers complete traceability throughout every aspect of their operating cycles.

The entire process is electronically controlled and all programme parameters and the cycle graph are displayed on the adjustable display. For complete traceability user names, batch numbers, a chart recorder and /or a bar code reader can be utilised.

## Safety and UKAS

If the safety cover is open when the media temperature exceeds 80°C, an audible alarm is activated and the cycle halted. The cycle will not continue until the safety cover is closed. An automatic lock ensures the cover cannot be opened again until the media temperature drops below 80°C. Even if power to the instrument is interrupted, the cover will remain locked until the power is reconnected and the media temperature is at a safe level.

All parts accessible to the user are thermally insulated to prevent any risk of burns.

We offer a full range of UKAS calibration and validation services for autoclaves and media preparators. This service can be included as part of the installation procedure, enabling you to begin to use your preparator immediately following commissioning and staff training.

## Standard Features

Easy opening and easy closing lid  
Inner vessel has no dead volume and drains all contents  
Easy cleaning without removing the inner vessel  
Transport wheels with brakes  
Guaranteed sterility

## Options

**M00024** Chart Recorder  
**M10239** Quick release connector (x2)  
(for water supply and drain)

## Accessories

**M10468** Priming nozzle  
**M10469** Pourer Stacker / Dilumat Connection  
**M10470** Power supply adapter  
**M10080** Chart recorder paper  
**M10349** Stainless Steel Take-off Port Nozzle

## Specification

Order Code: M00055  
Instrument Size (mm): 760 x 580 x 1100 lid closed, 1410 lid open (w x d x h)  
Instrument Weight: 91kg  
Packaged Size (mm): 800 x 700 x 1225 (w x d x h)  
Packaged Weight: 111kg  
Power Supply: 400V  $\pm$  10% 3 phases and neutral, 8KW at 400V  $\pm$  10%, 50/60Hz  
Speed: Prepares 28 litres of media within 100 minutes  
Capacity: Prepares 5 to 28 litres of media  
Microprocessor-based regulation, accuracy  $\pm$  1°C  
Constant medium stirring: 40 rpm  
Sterilisation temperature: 95 to 125°C  
Dispensing temperature: 25 to 79°C

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