



# Masterclave®

## Automated Culture Media Preparators

**AES**   
**CHEMUNEX**  
A BIOMÉRIEUX COMPANY

  
**BIOMÉRIEUX**

## 30 Years of Experience!

Drawing upon over 30 years' experience in the manufacturing of media preparators, the Masterclave series is unsurpassed in ease of use.

- For all culture media, agar or broth
- Large magnetic stirrer for perfect homogeneity
- Core temperature monitoring
- Accurate temperature regulation
- Fast cycle
- Alphanumeric display and keyboard
- Sterilisation temperature: 95 to 125 °C
- Sterilisation period: 1 to 60 minutes
- Dispensing temperature: 25 to 80 °C
- Compliance with GLP
- Safety valve
- Cover locking mechanism at 80 °C
- 40 customised programs

## Ease of use

- Easy opening, easy closing and easy cleaning!

## Maximum Safety

- No more handling of glass bottles
- Special media preparation at all times

## Profitability

- Lowest production cost
- Production adapted to needs
- Reduction in space requirements
- Simplified stock management

## Quality

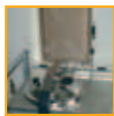
- Sterilisation and dispensing at the right temperature guaranteed
- Standardised production
- GLP manual
- Produces high quality media every time

# Masterclave® 09

- **Capacity 1 to 9 litres**
- **Sterility, Fertility, Reproducibility, Safety**

State-of-the-art technology lets you automatically and rapidly prepare 1 to 9 litres of the highest-quality culture media. New large magnetic stirrer (patented) provides excellent medium homogenisation during sterilisation and distribution.

Accurate core temperature monitoring guarantees highest-quality agar or broth even for large-prepared volumes. New robust and lift-assisted safety cover has automatic closing above 80 °C and maintenance free magnetic sensor. Polycarbonate transparent window.



Lift-assisted safety cover



Easy-opening and easy-closing lid. Long life gasket



Patented large magnetic stirrer



Light weight inner vessel



Optional transport trolley



Can be used as a 12 L autoclave



Large port for sterile supplement addition (blood, antibodies, antibiotics, egg yolk...)



Optional printer for total traceability. Real-time edition of temperature curve (contrary to thermal printer, print outs can be stored for years)

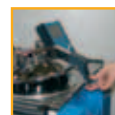


# Masterclave® 528

- **Capacity 5 to 28 litres**
- **Ideal for Broth or Agar**
- **Mobile**



Graphic interface



Easy-to-open lid



Easy to clean

Easy-to-open and easy-to-close lid. Long Life gasket, transparent polycarbonate window. Easy to clean: No removable inner vessel, draining valve features a safety lock. Distribution connector with flexible stainless steel nozzle mounted in the lid. High Quality Culture Media: large, removable magnetic stirrer (patented) provides excellent medium homogenisation during sterilisation and accurate core temperature control. Three stirring speeds for distribution. Graphical user interface enables clear information and stores up to 30 fully customisable programs. Two control LEDs and audible signals inform the operator about the cycle status. Optional printer for total traceability and real-time temperature curve edition (short reports available if needed). Choose between FAST or ECO mode to save time or water! Self-diagnostic for critical components ensures maximal media quality and safety. High Efficiency: Complete cycle in 75 min (FAST mode) or 90 min (ECO mode).



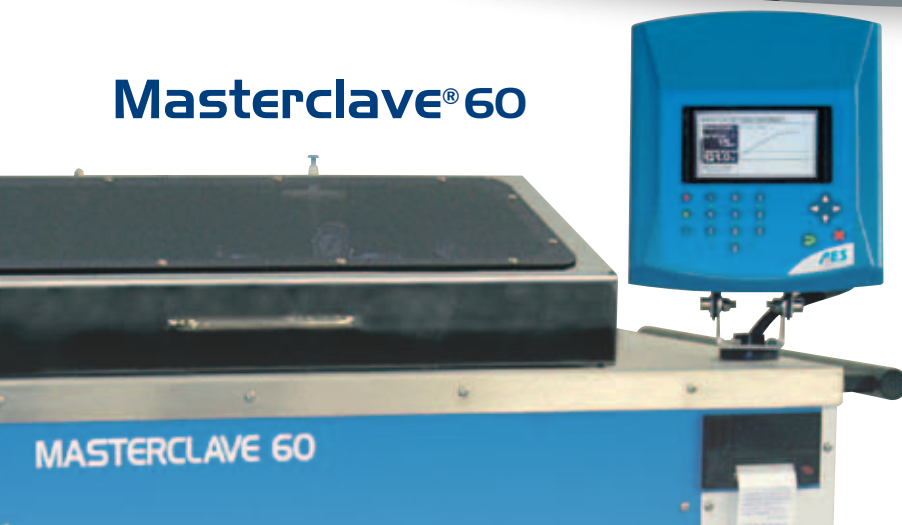


## Broth Preparation

- Up to 260 dilutions of 225 ml in one cycle
- Ideal for use with a gravimetric diluter (Dilumat™)
- Right temperature dispensing: ideal for *Salmonella* (dilution with buffered peptone water at 37 °C) and *Listeria* (Half Fraser, 30 °C)
- Calibrated temperature probe



## Masterclave® 60



## Agar Preparation

- Up to 3,500 plates (17 ml) in the same batch!
- High quality prepared media
- Superior quality (sterility and fertility)
- Standardised and cost-effective production
- One batch = One control
- Full traceability

## GMP: Good Manufacturing Practices in Culture Media Preparation

As specialists in culture media manufacturing, bioMérieux and AES CHEMUNEX help you in your daily media preparation. The “good manufacturing practices” manual is an invaluable guide for using, cleaning and maintenance of tasks and describes all Quality Assurance aspects of culture media preparation and testing. It contains all Quality Assurance documents and forms needed for superior production and Quality Assurance.



- **Capacity 10 to 60 litres**
- **Preparation of 60 litres of Media within 90 min**
- **Mobile**
- **Convenient:**
  - Assisted lid opening/closing
  - Inner vessel has no dead volume and drains all contents
  - Easy cleaning without removing the inner vessel
  - Stainless steel safety cover with window
- **High power & full safety:**
  - Preparation of 60 litres of media within 90 min
  - Water cooling
  - CE and ASME compliant
- **Exceptional preparation quality:**
  - High accuracy regulation +/- 0.5 °C after temperature stabilisation, without risk of media overheating
  - Large removable magnetic stirrer, guaranteed homogeneity
  - Pharmaceutical grade dispensing valve
- **Full traceability**
  - Ticket printer: cycle parameters edition (operator name, batch, program name, date, time, cycle graph)
  - Option: remote temperature monitoring (eviSENSE Labguard® monitoring system)



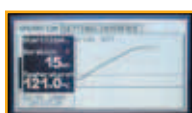
## Installation, Calibration, Maintenance Contracts IQ, OQ, PQ Qualification, Hot-line, Service

Support and service are available worldwide, directly from us or through our network of authorised partners. A complete range of calibration equipment and services is available.

Easy-to-open lid



Graphic interface

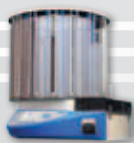


# EXPERIENCE: THERE IS NO SUBSTITUTE!

## Get More from your Culture Media Preparator!



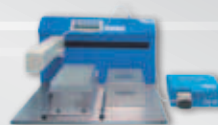
Manufacture High Quality Plates with APS One Automated Pourer Stacker  
Capacity 560 Plates 90 or 55 mm



Automate The Sample Preparation by Connecting an Automated Dilumat<sup>®</sup> S Gravimetric Diluter



Automatically fill up to 500 Tubes or Bottles with XY500 Robotic Module and PMO5 Precision Peristaltic Dispenser



Automated Pour Plate Application with A2PS 320 Plate Filling System with Sample Shaker



## Specifications & Ordering Information

### Masterclave<sup>®</sup> 09

Up to 40 programs: simple cycle, 2-step cycle, special cycle

Addition of supplements

Media preparation capacity 1 to 9 litres

Sterilisation temperature: 95-125 °C

Sterilisation duration: 1 to 60 min

Dispensing temperature: 25-80 °C

Autoclave or water bath volume: 12 litres

Accurate temperature control

Microprocessor-based regulation, accuracy +/- 0.5 °C in stabilised phase

Heating power: 3000 W

Power supply: 230 V +/- 10 V - 50/60 Hz, 16A

W x H x D: 500 x 435 x 590 mm / 60 kg  
20" x 17" x 23" / 133 lb

#### Ordering Information

**AESAP1080** Masterclave 09 Culture Media Preparator

**AESAT2000** Ticket printer for total Traceability

**AESAT0602** 5 rolls for printer

**AESAP0619** Quick water Connection Kit (2 pcs)

**AESAP0596** Trolley

### Masterclave<sup>®</sup> 528

Up to 30 programs: simple cycle, 2-step cycle, special cycle

Addition of supplements

Media preparation capacity 5 to 28 litres

Sterilisation temperature: 95-125 °C

Sterilisation duration: 1 to 99 min

Distribution temperature: 25-80 °C

Temperature compensation for high volume supplements addition. Accurate temperature control

Microprocessor-based regulation, accuracy +/- 0.5 °C after temperature stabilisation

Safety cover locks above 80 °C

Power supply: 400 V +/- 10% three-phase + neutral, 16A (or 230 V +/- 10%, 10 A three-phase w/o neutral, 20 A), 8 KW

W x H x D: 760 x 1100 x 580 mm / 91 kg  
30" x 43" x 23" / 200 lb

#### Ordering Information

**AESAP1081** Masterclave 528 Culture Media Preparator

**AESAT2000** Ticket printer for total traceability

**AESAT0602** 5 rolls for printer

**AESAP0619** Quick water connection kit (2 pcs)

**AESMB0016** Priming nozzle

**AESAP2171** Twin sampling nozzle to connect two systems (Dilumat<sup>®</sup> or APS One)

**AESAP2126** Power supply adapter from 380 V to 220 V (only for dispensing phase)

**AESMC0008** Additional temperature probe

### Masterclave<sup>®</sup> 60

Up to 30 programs: simple cycle, 2-step cycle, special cycle

Addition of supplements

Media preparation capacity 10 to 60 litres

Sterilisation temperature: 95-125 °C

Distribution temperature: 25-80 °C

Temperature compensation for high volume supplements addition

Accurate temperature control

Microprocessor-based regulation, accuracy +/- 0.5 °C after temperature stabilisation

Safety cover locks above 80 °C, electronically controlled lid & safety cover closing

Built-in ticket printer (AESAT2000)

Power supply: 400 V +/- 10% three-phase + neutral + ground, 32 A, 18 KW or 230 V +/- 10%, three-phase + ground, 32 A

W x H x D: 1030 x 1250 x 700 mm / 170 kg  
41" x 50" x 28" / 375 lb

#### Ordering Information

**AESAP1067** Masterclave 60 Culture Media Preparator

**AESAT0602** 5 rolls for printer

**AESAP0619** Quick water connection kit (2 pcs)

**AESMC0130** Adapter 220 V (mono) - 380 V

**AESMC0008** Temperature probe

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