

Masterclave®

Automated Culture Media Preparators

Drawing upon over 30 year's experience in the manufacturing of media preparators, the Masterclave® series represents probably the most developed but easy-to-use equipment available today.



AES 
CHEMUNEX
Your partner...
from sample collection to results
...in microbiology



AES CHEMUNEX MEDIA PREPARATORS

30 years of experience!

- 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 a high quality media

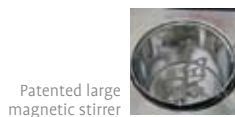


Masterclave® 09

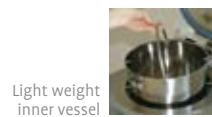
- Capacity 1 to 9 litres.
- Sterility, Fertility, Reproducibility, Safety.

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 homogenization during sterilization and distribution.

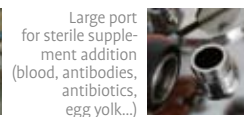
Accurate core temperature monitoring guarantees highest-quality agar or broth even for large-prepared volumes. New robust and lift-assisted safety cover has automatic closing above 80 °C and maintenance free magnetic sensor. Polycarbonate transparent window.



Patented large magnetic stirrer



Light weight inner vessel



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



Optional transportrolley



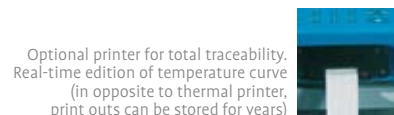
New lift assisted safety cover



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



Can be used as a sophisticated 12 l - autoclave



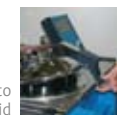
Optional printer for total traceability. Real-time edition of temperature curve (in opposite to thermal printer, print outs can be stored for years)

Masterclave® 528

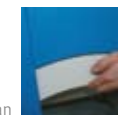
- Capacity 5 to 28 litres.
- Ideal for broth or agar.
- Mobile.

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 homogenization during sterilization and Accurate core temperature control. 3 stirring speeds for distribution. Graphical user interface enables clear information and stores up to 30 fully customisable programs. 2 control LEDs and audible signals inform the operator about the cycle status, easily connect a PC and a barcode reader (option). 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 of critical components ensures maximal media quality and safety. High Efficiency: Complete cycle in 75 min (FAST mode) or 85 min (ECO mode).



easy-to open lid

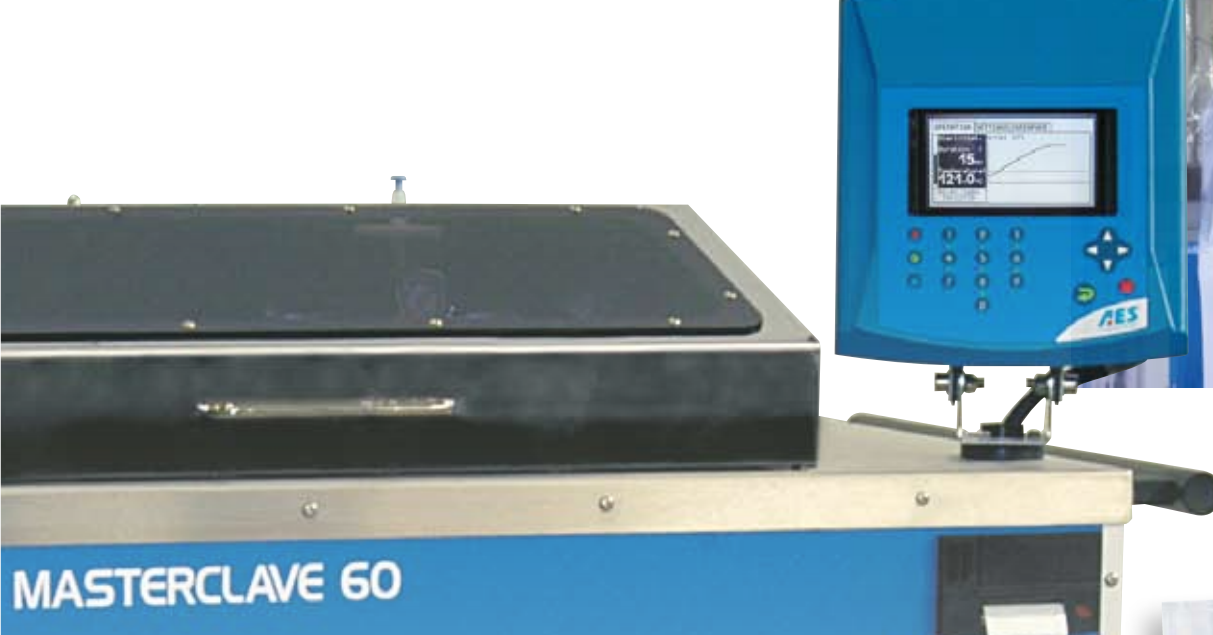


Easy to clean



Graphic interface





MASTERCLAVE 60

Masterclave® 60

- Capacity 10 to 60 litres.
- Preparation of 60 litres of media within 90 min.
- Mobile

Convenient

- Easy-opening & easy-closing lid.
- 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 better than 1°C, no risk of medium overheating, water jacket heating/cooling. Large removable magnetic stirrer.
- Pharmaceutical grade dispensing valve

Full traceability

- Ticket printer: operator name, batch, program name, date, time, cycle graph • Traceability of ingredient batch numbers
- PC connection
- Port for remote temperature monitoring (Labguard monitoring system)

easy-to open lid



Graphic interface



Broth preparation

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



Agar preparation

- Up to 3,500 plates (17 ml) in the same batch!
- High quality prepared media
- One batch = One control
- Standardized and cost-effective production
- Superior quality (sterility and fertility)
- For all types of agar or broth
- Full traceability



GMP: Good Manufacturing Practices in Culture Media Preparation

As a specialist of the culture media manufacturing, AES CHEMUNEX helps you in your daily media preparation. The "good manufacturing practices" manual is an invaluable guide for using; cleaning or maintenance tasks and describes all Quality Assurance aspects of culture media preparation and testing. It contains all Quality Assurance documents and forms needed for a perfect production under Quality Assurance.



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.



SPECIFICATIONS & ORDERING INFORMATION

Masterclave® 09

Media preparation capacity 1 to 9 litres
Autoclave or water bath volume: 12 litres
Temperature: 25 – 125 °C (sterilization) (25-80°C distribution or water bath)
Temperature control accuracy better than 1°C
Heating power 3000 W
Power supply: 110 - 230 ± 10 V - 50/60 Hz, 16 A

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

Ordering information:

AESAP1080: Media Preparator Masterclave® 09

Options:

AESAT2000: Ticket printer for total traceability
AESAP0619: Quick connectors (2 pcs)
AESAT096: Trolley

Masterclave® 528

Media preparation capacity: 5 to 28 litres
Sterilisation temperature: 95 to 125 °C
Sterilisation time: 1 to 99 min
Dispensing temperature: 25 to 80 °C
Safety cover locks above 80°C
Power supply: 400 V +/- 10% three-phase + neutral, 16 A (or 230 V +/- 10%, 20 A three-phase w/o neutral)
W x H x D:

760 x 1100 x 580 mm / 91 kg
30" x 43" x 23" / 200 lb

Ordering information:

AESAP1081: Media Preparator Masterclave® 528
AESAT2000: Ticket printer: date, temperature, volume, user, batch-#, cycle graph

Accessories:

AESMB0016: Priming nozzle
AESAP2171: Twin sampling nozzle to connect two systems (Dilumat® or APS®One)
AESAP2126: Power supply adapter from 380 V to 220 V (only for dispensing phase)
AESMC0008: Additional Temperature probe (need PCB)
AESMC0080A: PT100 probe PCB (for additional Probe),
AESAP0619: Quick connection kit (2)

Masterclave® 60

Media preparation capacity: 10 to 60 litres
Sterilisation temperature: 95 to 125°C
Dispensing temperature: 25 to 79°C
Up to 40 programs, simple cycle, 2-step cycle or special cycle
Addition of supplements
Temperature compensation for high-volume
Microprocessor-based regulation, accuracy ± 0.5 °C
Microprocessor-controlled safeguard
Safety cover locks above 80°C, electronically controlled lid & safety cover closing

Power supply: 400 V +/-10%, three-phase + Neutral + ground, 32 A
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:

AESAP1065: Media Preparator Masterclave® 60, comes with ticket printer and wheels
AESAP1067: Masterclave® 60 (US version)

Accessories:

AESAP0619: Quick connection kit (2)

EXPERIENCE CANNOT BE COPIED!



Over the last 30 years, AES CHEMUNEX has manufactured millions of ready-to-use culture plates and a comprehensive range of automated equipment. Our automated systems are designed, tested and validated in an industrial Petri dish manufacturing environment. This means that by purchasing our equipment you are benefiting from invaluable industrial AND laboratory experience. Proof of this is that most other manufacturers of ready-to-use culture media actually use AES CHEMUNEX equipment!

www.aeschemunex.com

ISO 9001: v 2008
LRQA FAQ 9914921

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Get more from your Culture Media Preparator!

Manufacture high
Quality Plates with
APS One Automated
Pourer Stacker Capacity
560 or 800 plates –
Ø 90 or 55 mm plates

Automate the
sample preparation by
connecting an automated
Dilumat gravimetric
diluter

Automatically fill up to
500 tubes or bottles with
XY 500 robotic module
and PMO5 precision
peristaltic dispenser

Automated pour plate
application with A2PS320
plate filling system with
sample shaker



AES
CHEMUNEX
Your partner...
from sample collection to results
...in microbiology

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