



Automated Media Preparation & Dispensing System

LD-LAMD-A10

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Automated Media Preparation & Dispensing System LD-LAMD-A10 is an advanced solution designed for the efficient preparation and aseptic dispensing of various sterile culture media in laboratory environments. Built as a coordinated solution for media preparation and dispensing, the system delivers precise sterilization, temperature control, and high-speed dispensing—ideal for demanding laboratory workflows. Its intelligent automation features and robust safety mechanisms ensure reliable and contamination-free media production.

Features

- Large touchscreen interface enables intuitive control and monitoring
- Dual-pump design supports precise blood agar and plate preparation
- Chamber constructed from durable S31603 stainless steel
- High-power magnetic stirring ensures uniform media mixing
- Uses deionized water with automatic filling and high/low water level alarms
- Pressure-compensated water cooling maintains chamber pressure during rapid cooling
- Dual lid interlock prevents opening above 80 °C or 50 mbar pressure and a safety valve at 1.7 bar to ensure operator safety
- Over-temperature protection with auto shutdown safeguards operations
- Flexible PT-100 probe allows temperature monitoring at any chamber location
- Optional printer module for printing production date, expiry, and batch number
- Built-in UV sterilization (254 nm, 11 W) with dedicated zone and lamp life alert
- Two dispensing ports and one inlet port to support varied dispensing requirements
- Real-time fault alarm system provides alerts for operational errors
- Licensed pressure vessel ensures regulatory compliance and safe operation

Applications

Suitable for sterile media preparation and dispensing in microbiology, pharmaceutical, biotechnology, clinical, veterinary, food safety, and academic laboratories.

Specifications

Model No.	LD- LAMD-A10
Capacity	60 L (chamber: 87 L)
Sterilization Temperature Range	70–130 °C
Design temperature	147 °C
Flow rate	25# (0.2–1,120 mL/min); 17# (0.3–1,780 mL/min)
Dispensing Temperature Range	25–80 °C
Water Bath Temperature	30–80 °C

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Temperature Precision	±0.1 °C
Temperature Deviation	±0.5 °C
Working Pressure	2.5 bar
Design Pressure	3.5 bar
Stirring System	Magnetic, step less, 0–240 rpm
Dispensing Rate	~800 plates/hour
Dispensing accuracy	~1% (20 mL)
Plate Rack	40 plates/slot × 9 slots (max 280 plates for Ø90 mm)
UV Sterilization	254 nm, 11 W, 13,000 hrs., lifespan
Material Inlet Diameter	32 mm
Chamber Dimensions	Ø400 mm × 685 mm
Bucket Dimensions	Ø380 mm × 640 mm
Tray Format	6-slot tray standard