



MOLECULAR BIOLOGY / ELECTROPHORESIS

GEL ELECTROPHORESIS PACKAGE WITH POWER SUPPLY

Integrated separation and controlled power delivery.

A proposed horizontal gel electrophoresis package combining a transparent gel chamber with a compatible programmable power supply for routine DNA and RNA separation workflows.



OUTPUT VOLTAGE 10-300 V

OUTPUT CURRENT 4-400 mA

CONTROL CV / CC

PROPOSED MODEL

ALC-HGE150-P

CATALOGUE NUMBER

ALC-MB-HGE-150-P

PROPOSED SPECIFICATION SET

Final values, accessories, warranty and compliance require approval against the selected OEM datasheet.



PRODUCT OVERVIEW

Integrated separation and controlled power delivery.

The ALC-HGE150-P package combines the ALC-HGE150 horizontal electrophoresis unit with a compatible laboratory power supply. The chamber supports agarose gel separation, while the power supply provides controlled voltage or current for repeatable nucleic-acid workflows. Final chamber dimensions, power rating and package contents require OEM confirmation.



OUTPUT VOLTAGE

10-300 V

OUTPUT CURRENT

4-400 mA

CONTROL

CV / CC

Key Features

- Transparent, leak-resistant horizontal gel chamber
- Removable UV-transparent gel tray
- Multiple comb positions and interchangeable comb formats
- Constant-voltage and constant-current operation
- Digital display with timer or continuous operation
- Multiple output terminals preferred for parallel runs
- No-load, overload and short-circuit protection proposed
- Integrated package simplifies procurement and compatibility review

Working Principle

Charged nucleic-acid fragments migrate through an agarose gel under an applied electric field. The power supply maintains the selected voltage or current, while the gel matrix separates fragments according to size and conformation.

TYPICAL APPLICATIONS

DNA electrophoresis / RNA electrophoresis / PCR-product analysis / Restriction-fragment analysis / Plasmid analysis / Academic teaching



PROPOSED TECHNICAL DATA

Model-specific values require OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Package model	Proposed ALC-HGE150-P
Gel tray size	Approximately 150 x 100 mm
Alternative tray sizes	100 x 70 mm or 200 x 200 mm
Buffer volume	Approximately 500-800 mL
Comb options	8, 10, 12, 15, 18 or 20 wells
Comb thickness	1.0 mm and 1.5 mm
Output voltage	10-300 V
Output current	4-400 mA
Maximum power	Approximately 120 W
Output terminals	Four sets preferred
Control modes	Constant voltage and constant current
Timer	1 minute to 99 hours or continuous
Display	Digital LED or LCD
Safety	No-load, overload and short-circuit protection

STANDARD SUPPLY

- Electrophoresis tank
- Gel tray and casting arrangement
- Two combs
- Connecting leads
- Compatible power supply
- Operation manual

OPTIONAL / MODEL-DEPENDENT

- Additional combs and trays
- Replacement leads/electrodes
- Additional output cables
- Casting stand or gates

TO BE CONFIRMED

- Exact package contents
- Power accuracy and output rating
- Dimensions and weight
- Warranty and compliance documents



LABORATORY APPLICATIONS

A practical platform for professional laboratory workflows.

Applications

- DNA electrophoresis
- RNA electrophoresis
- PCR-product analysis
- Restriction-fragment analysis
- Plasmid analysis
- Academic teaching

Product Advantages

- Matched chamber and power-supply package
- Supports routine nucleic-acid separation
- Flexible comb and tray configurations
- Digital control for repeatable runs
- OEM-ready packaging and documentation

INDUSTRIES SERVED

Molecular-biology laboratories / Biotechnology laboratories / Academic institutions / Research and diagnostic laboratories

SCAN TO VIEW PRODUCT



Request a model-specific quotation.

Share your application, required capacity or range, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved datasheet and quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

OEM / PRIVATE LABEL AVAILABLE

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Product images are for reference and may vary by configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those in the approved technical datasheet and commercial quotation. Standard warranty: To be confirmed according to the selected product and approved commercial quotation.