



**SYSTEMS INCLUDE:**

CELLULOSE ACETATE, AGAROSE, POLYACRYLAMIDE, STARCH GEL SYSTEMS  
HIGH AND LOW VOLTAGE PAPER ELECTROPHORESIS SYSTEMS  
TRANSFER AND SEMI-DRY BLOTTING SYSTEMS

**ACCESSORIES INCLUDE:**

LEVELING PLATFORM, CONSTANT HUMIDITY CHAMBER, GEL CUTTER  
TRANSILLUMINATOR, STAINING CHAMBER, GEL DRYER  
BLOTTING/CHROMATOGRAPHY PAPER, PURE NITROCELLULOSE  
ELECTROPHORESIS POWER SUPPLIES, DENSTOMETERS

# ELECTROPHORESIS SYSTEMS

| Support Media      |                        | Application  | Electrophoresis Equipment                        | Related Products   | Power Supply | Units for Post-Electrophoresis Analysis    |
|--------------------|------------------------|--|--|--|--------------|--|
| Cellulose Acetate  |                        | Serum Protein<br>Hemoglobin<br>LDH<br>Isozyme<br>ALP Isozyme                   | EPC105AA<br>EPC205AA<br>EPC243SA                 | -  | EPS053AA     | EPY443RA<br>(Electrophoresis Densitometer) |
| Agarose Gel        |                        | Plant/ Animal Proteins<br>Isozymes<br>Nucleaic Acids<br>Immuno-Electrophoresis | EPG172AA<br>EPA071AA<br>EPA135AA                 | EPG001AA<br>(Gel Leveling Platform)<br>EPG002AA<br>(Gel Cutter)<br>EPG003AA<br>(Constant Humidity Chamber)<br>EPG004AA<br>(Transilluminator) | EPS053AA     |  |
| Polyacrylamide Gel | Slab                   | Plant/ Animal Proteins<br>Isozymes   | EPL082DA<br>EPL156DA<br>EPL156SA                 | EPL001AA<br>(Staining/ Destaining Chamber)<br>EPL006AA<br>(Slab Gel Dryer)   | EPS053AA     |  |
|                    | Isoelectric Point Disc | Plant/ Animal Proteins<br>Isozymes   | EPF125AA   | Cooling Device<br>(Constant Low Temperature Bath)  | EPS203AA     |  |
|                    | Disc                   | Nucleaic Acids   | EPD122AA<br>EPD126AA                             | EPL002AA<br>(Staining/ Destaining Chamber)   | EPS053AA     |  |
| Filter Paper       | Low Voltage            | For analysis of a wide variety of organics and inorganics                      | EPP165AA   | -  | EPS203AA     |  |
|                    | High Voltage           | For analysis of organics, inorganics, sugars, and amino acids                  | EPP607HA<br>(Can be used for 2D electrophoresis) | Cooling Device<br>(Constant Low Temperature Bath)  | EPS303AA     |  |
| Starch Gel         |                        | For analysis of proteins and enzymes   | EPT210WA<br>EPT602SA                             | -  | EPS203AA     |  |
| Transfer Blotting  |                        | Transfer migration banding from an electrophoresis gel to a membrane filter    | EPB491AA   | -  | EPS018AA     |  |
|                    |                        |  | EPB802AA   | Cooling Device<br>(Constant Low Temperature Bath)  |              |  |
| Semi-dry Blotting  |                        |  | EPE103AA<br>EPE106AA<br>EPE156AA                 | EPM102AA, EPM102HA<br>(Membrane Rollers)   | EPS053AA     |  |

## Pure Nitrocellulose for Blotting and Hybridization\*

|                                  |    | Quantity per Package | 0.20 um   | 0.45 um |
|----------------------------------|----|----------------------|-----------|---------|
| <b>Sheets (Dimensions in cm)</b> |    |                      |           |         |
| 20x20                            | 10 | S020A204D            | S045A204D |         |
| 30x30                            | 10 | S020A304D            | S045A304D |         |
| <b>Rolls</b>                     |    |                      |           |         |
| 33 cm x 3 m                      | 1  | S020A330R            | S045A330R |         |
| <b>Circles (Diameter in mm)</b>  |    |                      |           |         |
| 82                               | 25 | S020A082C            | S045A082C |         |
| 137                              | 25 | -                    | S045A137C |         |

## Blotting/Chromatography Paper

| Grade | Weight (g/m <sup>2</sup> ) | Thickness (mm) | Absorption Speed <sup>1</sup> (cm) | Wet Strength (cm H <sub>2</sub> O) | Ash (%) | Whatman Equivalent |
|-------|----------------------------|----------------|------------------------------------|------------------------------------|---------|--------------------|
| 50    | 140                        | 0.25           | 6.0                                | 20                                 | 0.1     | 20 Chr             |
| 51A   | 87                         | 0.18           | 7.5                                | 15                                 | 0.01    | 4 Chr              |
| 151B  | 87                         | 0.17           | 7.0                                | 15                                 | 0.06    | 1 Chr              |
| 1514A | 185                        | 0.32           | 7.5                                | 25                                 | 0.06    | 3MM Chr            |
| 526   | 325                        | 0.70           | 11.0                               | 50                                 | 0.1     | 17 Chr             |

1. Absorption speed is the distance in cm that water will travel in an upright strip of filter paper in ten minutes at 20°C.

All grades available in:

2x40 cm, 100 /pkg

20x20 cm, 50/pkg

46x57 cm, 100/pkg

60x60, 50/pkg

Please contact us for additional sizes and for special orders.

\*Please refer to our filtration catalog for a large selection of filters.

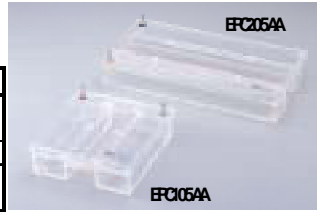
## CELLULOSE ACETATE ELECTROPHORESIS

EPC105AA, EPC205AA, EPC243SA

### Features

- Standard type of electrophoresis for hemoglobin analysis.
- Requires less sample and stain volume than other tests.

| Model                             | EPC105AA                     | EPC205AA                     | EPC243SA                     |
|-----------------------------------|------------------------------|------------------------------|------------------------------|
| Sample Number                     | 10 samples at 1 cm intervals | 20 samples at 1 cm intervals | 24 samples at 6 mm intervals |
| Accessories                       | Applicator                   |                              |                              |
| Overall Dimensions (WxDxH, in mm) | 170x170x55                   | 330x170x55                   | 272x136x80                   |



## AGAROSE GEL SUBMARINE ELECTROPHORESIS

EPA071AA EPA135AA

### Features

- Standard type of electrophoresis for DNA and RNA analysis.
- EPA 135AA is compatible with buffer circulation pumps.

| Model                             | EPA071AA                  | EPA135AA                       |
|-----------------------------------|---------------------------|--------------------------------|
| Gel Size (in mm)                  | 70x60                     | 130x130                        |
| Comb                              | 1 mm, for 1,3 & 6 samples | 1 & 2 mm for 1,4, & 16 samples |
| Overall Dimensions (WxDxH, in mm) | 126x72x57                 | 220x150x70                     |



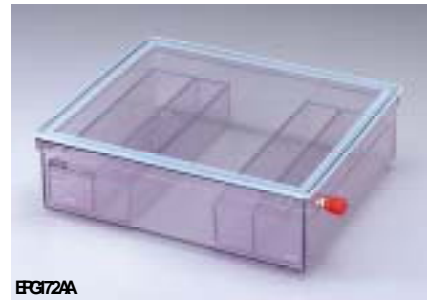
## AGAR SYSTEM FOR IMMUNO-ELECTROPHORESIS

EPG172AA

### Features

- Simple and inexpensive testing system for viral antibodies
- Set specifically designed for precipitation (AGP) and immuno-diffusion (AGID) tests.

| Model                             |   | EPG172AA   |
|-----------------------------------|---|--|
| Material                          | Chamber   | Acrylic resin  |
|                                   | Cover (Lid)   | Glass plate  |
| Overall Dimensions (WxDxH, in mm) |   | 245x205x75   |
| Accessories                       | Glass plates and plastic frames for agar film preparation | 165x119 (2), 106x81 (2), 89x63 (2), 75x52 (2), 75x26 (2) |



## AGAR GEL LEVELING PLATFORM

EPG001AA

### Features

- Sturdy and easy to clean bakelite construction
- Easily reproduce agar gels at a uniform thickness
- Make gels up to 274x207 cm

## GEL CUTTER

EPG002AA

### Features

- Sturdy and easy to clean bakelite construction
- Effective cutting area 300x120 cm

## CONSTANT HUMIDITY CHAMBER

EPG003AA

### Features

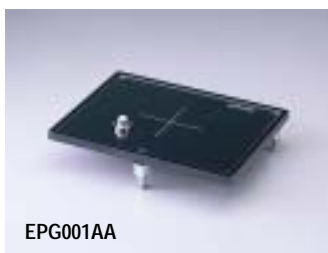
- Chamber for room temperature gel precipitation
- Acrylic housing and rubber door seal
- Overall dimensions: W185xD180xH180 mm

## FLUORESCENT TRANSILLUMINATOR

EPG004AA

### Features

- View gels marked with fluorescent dyes and proteins
- PVC housing with glass window
- Two 6W fluorescent bulbs for clear visibility
- Overall dimensions: W265xH225xD100



## VERTICAL SLAB GEL ELECTROPHORESIS\*

EPL082DA EPL156SA EPL156DA

### Features

- For protein separation and characterization.
- Run SDS-PAGE or native gels.
- Compatible with PAGE tests for 2D electrophoresis.

| Model                             | EPL082DA    | EPL156SA    | EPL156DA    |
|-----------------------------------|-------------|-------------|-------------|
| Gel Size (WxH, in mm)             | 80x70       | 145x160     |             |
| Comb (for 1 mm intervals)         | 10 x2       | 13x1        | 13x2        |
| Support Media                     | double      | single      | double      |
| Overall Dimensions (WxDxH, in mm) | 120x130x150 | 210x140x220 | 230x140x220 |

\* Please contact us regarding optional accessories, including gel combs and glass plates.

| Model    | Description                        |
|----------|------------------------------------|
| EPL001AA | Slab Gel Staining/De-staining Unit |
| EPL002AA | Disc Gel Staining Unit             |
| EPL006AA | Slab Gel Dryer                     |



EPL082DA

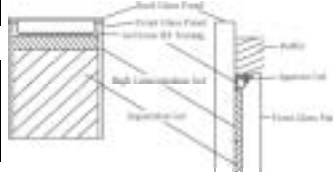


EPL156SA



EPL156DA

Diagram of 2D gel electrophoresis.



## DISC GEL ELECTROPHORESIS

EPD122AA EPD126AA

### Features

- For PAGE separation of macromolecules in fluids, including serum.
- Opaque white base provides increased visibility during migration.
- Adjustable upper buffer reservoir and interchangeable glass tubes make it easy to set desired migration distance. (EPD126AA)

| Model                      | EPD122AA   | EPD126AA       |
|----------------------------|------------|----------------|
| Migration tube (in mm)     | ø5xø7x80   | ø5xø7x150      |
| Sample Count               | 12 samples |                |
| Overall Dimensions (in mm) | ø180xH140  | W160xD180xH175 |



EPD122AA



EPD126AA

## ISOELECTRIC FOCUSING (IEF) DISC GEL ELECTROPHORESIS EPF125AA

### Features

- Alternative to conventional electrophoresis for genetic marker typing.
- 2 sets of electrodes facilitating IEF or PAGE testing on the same unit.
- Reduce analysis time and cost per sample while increasing resolution.
- Compatible with vertical PAGE tests for 2D electrophoresis.

| Model                 | EPF125AA             |
|-----------------------|----------------------|
| Glass Migration Tubes | ø2xø4x130mm, 12 pcs. |
| Sample Count          | 1 ~ 12 samples       |
| Overall Dimensions    | ø180xH240mm          |

| Standard Accessories   |
|--|
| Extraction syringe and needle (1), Gel spoon (1), Glass migration tubes (15), Tube stoppers (15), Base & stand (1) |



EPF125AA

## STARCH GEL ELECTROPHORESIS

EPT210WA EPT602SA

### Features

- Perform basic analysis on proteins such as isozymes.
- EPT602SA can accommodate six 20mm wide gels at once. Each gel can be cut (on cutting board, included) to yield two 3 mm layers.
- EPT210WA can accommodate two full-size gels at once. Each gel can be cut to yield two 3 mm layers.

| Model                   | EPT602SA            | EPT210WA   |             |
|-------------------------|---------------------|--|-------------|
| Type                    | Standard Horizontal | Wide horizontal  |             |
| Gel Size (WxDxT, in mm) | 20x200x6            | 100x200x6  |             |
| No. of Gels             | 6 at once           | 2 at once  |             |
| Standard Accessories    | Gel Supports        | 12   | 2           |
|                         | Cutting Board       | 1  | -           |
|                         | Glass Weights       | 12   | 2           |
|                         | Wire Cutter         | -  | One 5m roll |
|                         | Also Includes       | Gel holder (1), Staining tray (6), Tape (1 roll), Horizontal & Vertical cutter (1 ea.) |             |



EPT602SA



EPT210WA

## PAPER ELECTROPHORESIS- LOW VOLTAGE EPP165AA

### Features

- Supports organic and inorganic ion analysis.
- Unit accommodates 1 large sheet or six 20mm strips.

| Model                                    | EPP165AA  |
|--|---|
| Appropriate Filter Paper<br>(WxL, in mm) | Chromotography paper (No. 51A*)<br>Size: 155x400: 1 sheet or 20x400: 6 strips |
| Overall Dimensions<br>(WxDxH, in mm)     | 430x260x95  |
| Standard Accessories                     | Ruler for trimming paper (1)  |

\* Please refer to the Advantec MFS Inc. filtration catalog.



EPP165AA

## PAPER ELECTROPHORESIS- HIGH VOLTAGE EPP607AA

### Features

- Perform analysis on organics, inorganics, sugars and other samples where high speed is required.
- Compatible with procedures requiring 2D electrophoresis.
- Adjustable frame accommodates papers 40 to 60 cm long.

| Model                                    | EPP607HA   |
|--|--|
| Appropriate Filter Paper<br>(WxL, in mm) | Chromotography paper (No. 51A*)<br>60 - 40x60 mm |
| Maximum Voltage                          | 5000V  |
| Buffer Capacity                          | 1.5 - 2.5L                                       |
| Overall Dimensions<br>(WxDxH, in mm)     | 730x190x330                                      |

\* Please refer to the Advantec MFS Inc. filtration catalog.



EPP607AA

## POWER SUPPLIES FOR ELECTROPHORESIS EPS165AA EPS203AA EPS303AA

### Features

- Automatic shutoff safety feature ensures proper voltage and current are not exceeded
- EPS203AA and EPS303AA can be connected to two electrophoresis units simultaneously

| Model            | EPS165AA   | EPS203AA     | EPS303AA     |
|------------------|--|--------------|--------------|
| Voltage Range    | 10 to 500V                                       | 20 to 2,000V | 30 to 3,000V |
| Current Range    | 5 to 200mA                                       |              |              |
| Display          | 3 digit for voltage, current turnover, and timer |              |              |
| Timer            | Continuous, or from 0 to 999 minutes             |              |              |
| Output Terminals | 1  | 2            | 2            |



EPS165AA

EPS203AA

EPS303AA

## ELECTROPHORESIS DENSITOMETER EPY443RA

### Features

- Use to record results from cellulose acetate, polyacrylamide, agar, and starch gels, TLC slides, filter paper, and more.
- Reading and printing results takes as little as 10 seconds

| Model                       | EPY443RA   |
|-----------------------------|--|
| Light Source                | Tungsten lamp, 12DC, 10W   |
| Slit                        | 5 kinds (0.2x2, 0.3x3, 0.5x5, 0.5x7, 1.0x3mm)  |
| Filter                      | 4 sheets (440,500,565,620nm)   |
| Overall Dimensions (WxDxH)  | 500x450x290  |
| Chart paper                 | Thermal paper (114mmx25m roll)   |
| Printing Sample Description | Density curve, Peak mark, Sample number (0-99), Peak number (0-99), Peak percentage (4 figures with one decimal place) |



EPY443RA

\* Please contact us for additional information regarding included accessories

## TRANSFER BLOTTING UNIT

EPB491AA EPB802AA

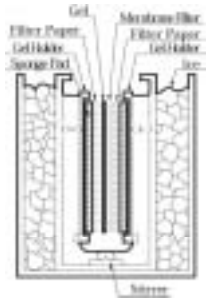
### Features

- Transfer from agarose or polyacrylamide gels for Western, Northern, or Southern blots.
- Accommodates gels 160x145 or 80x70 mm.
- Add ice to cooling chamber for low-cost cooling.
- EPB802AA can run transfers from 2 gels simultaneously.

| Model                           | EPB491AA | EPB802AA     |
|---------------------------------|----------|--------------|
| Electrode Gap (in cm)           | 4.9      | 8            |
| Buffer Capacity (in mL)         | 1,250    | 1,900        |
| Max. Blotting Area (WxD, in mm) | 150x170  | 150x170 (x2) |



Cutaway Diagram



## BLOTTING POWER SUPPLY

EPS018AA

### Features

- High voltage power supply for transfer blotting.
- Can also be used as a high voltage power supply for electrophoresis units.

| Model                             | EPS018AA     |                      |
|-----------------------------------|--------------|----------------------|
| Overall Dimensions (WxDxH, in mm) | 110x250x210  |                      |
| Power Output                      | High Voltage | DC 0~100V / 0~600mA  |
|                                   | Low Voltage  | DC 0~40V / 0~1,600mA |



## SEMI-DRY BLOTTING SYSTEMS

EPE103AA EPE106AA EPE156AA

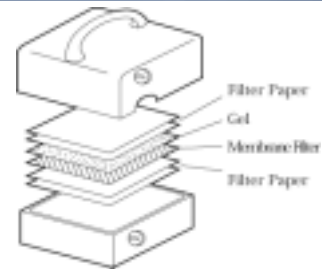
### Features

- Uses filter paper presoaked with buffer.
- Can be stacked with dialysis membrane for multiple sandwiched gel transfers.
- Systems produces little heat, and does not require refrigerant.
- Boxes available in 3 sizes to suit a variety of gel sizes.
- Faster, cleaner, and more economical than tank blotting systems.

| Model                             | EPE103AA                              | EPE106AA    | EPE156AA    |
|-----------------------------------|---------------------------------------|-------------|-------------|
| Positive/Negative Electrode       | High density carbon plates            |             |             |
| Electrode Dimensions (WxD, in mm) | 100x100                               | 100x150     | 150x150     |
| Overall Dimensions (WxDxH, in mm) | 120x120x120                           | 170x120x120 | 170x170x120 |
| Standard Accessories              | Filter paper for blotting x100 sheets |             |             |



Stacking Diagram



## MEMBRANE ROLLERS

EPM102AA EPM102HA

### Features

- Suitable for hybridization of nucleic acids, for controlled washing, or for protein antibody response reactions.
- Minimal amounts of antibody are required for this process.

| Model                             | EPM102AA               | EPM102HA               |
|-----------------------------------|------------------------|------------------------|
| Temperature Range                 | 50°C or lower          | 65°C or lower          |
| Bottle Roller Size (mm)           | ø25 ~ ø100x110         |                        |
| Bottle Roller                     | 2                      |                        |
| Rolling Speed (fixed, rpm)        | 30                     |                        |
| Overall Dimensions (WxDxH, in mm) | 230x160x70             | 220x160x65             |
| Standard Accessories              | 4 bottles (ø40x110 mm) | 5 bottles (ø30x115 mm) |

