

# Scie-Plas

## Electrophoresis

ALYS Labware, Lausanne

Tel: 021 312 42 60

Fax: 021 312 42 61

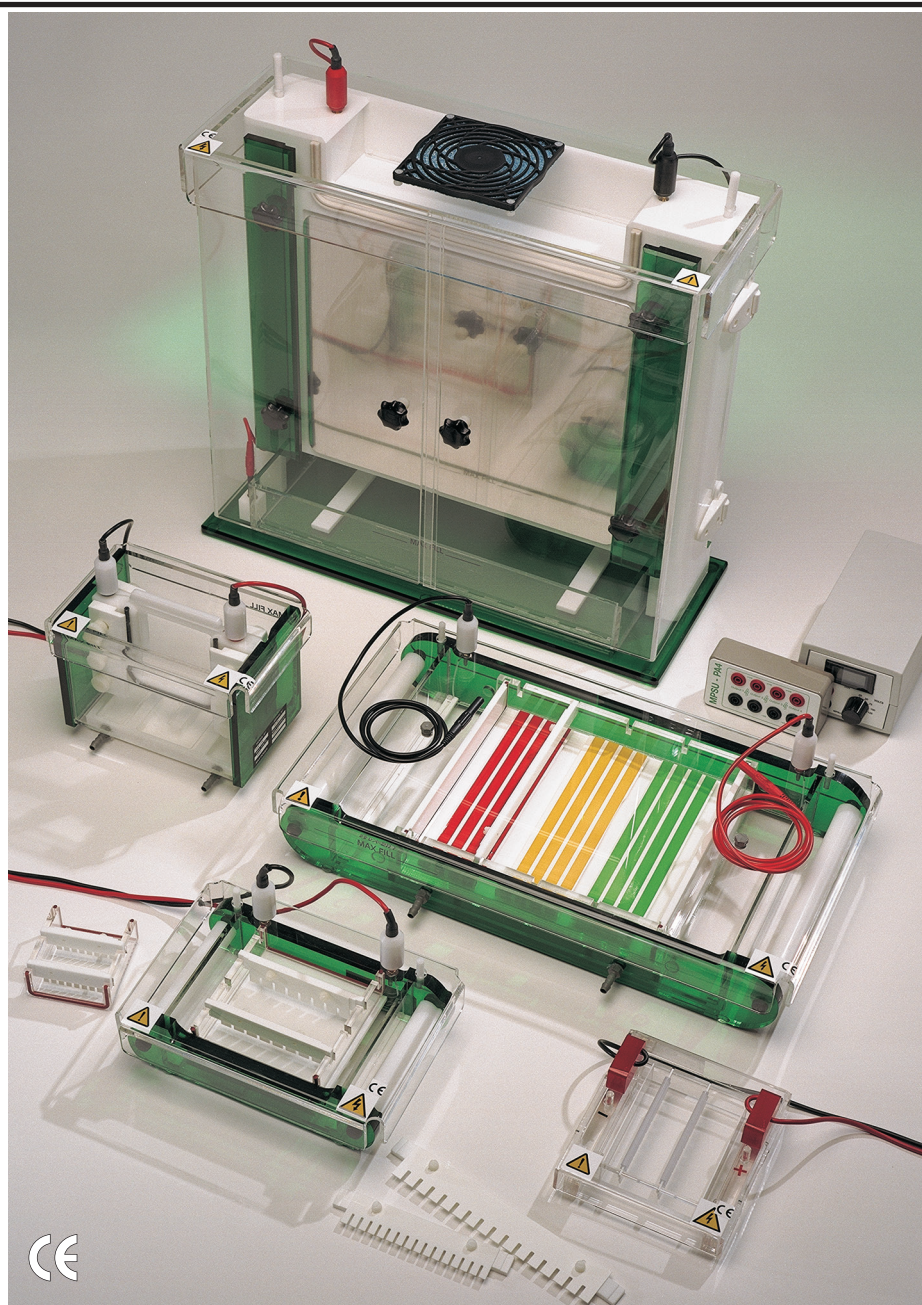
labware@alys-technologies.com

The Scie-Plas 'Green Range' of electrophoresis products has been designed by Scientists for Scientists over a period of several years. Scie-Plas is constantly incorporating new ideas into its products, those of both researchers and the company's manufacturing engineers. The result is a range of electrophoresis products which is not only user-friendly but also safe. All Scie-Plas products are manufactured to the latest CE safety requirements and carry the CE logo of compliance.

Scie-Plas electrophoresis products feature the following :

- The CE logo of safety compliance
- Robust acrylic construction
- Safety lids with Integral power leads
- Shrouded power connectors
- Long-Life, pure Platinum electrodes, which are user replaceable
- Gold plated terminals and stainless steel washers which resist corrosion
- Combs and Spacers colour-coded according to their thickness -

0.25mm	Natural
0.35mm	Natural
0.75mm	Black
1mm	White
1.5mm	Red
2mm	Blue



All procedures at Scie-Plas are based on techniques which continually control quality and production times. In March 1997, the company was awarded ISO9002 certification.

Scie-Plas Limited declare that the products listed in this catalogue are in conformity to the relevant CE safety standards:

EMC Directive: 89/336/EEC  
 Tests: EN55011 Emissions  
 EN50082-1 Immunity

Low Voltage Directive: 73/23/EEC  
 Tests: IEC1010-1:1990 plus amendment 1:1992  
 EN61010-1:1993  
 BSEN6F1010-1:1993

and therefore are in conformity with the production requirements of Council Directives 89/336/EEC and 73/23/EEC on the approximation of the laws of the member states relating to Electromagnetic Compatibility and the Low Voltage Directive.



# Horizontal Gel Units

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## Mini Horizontal

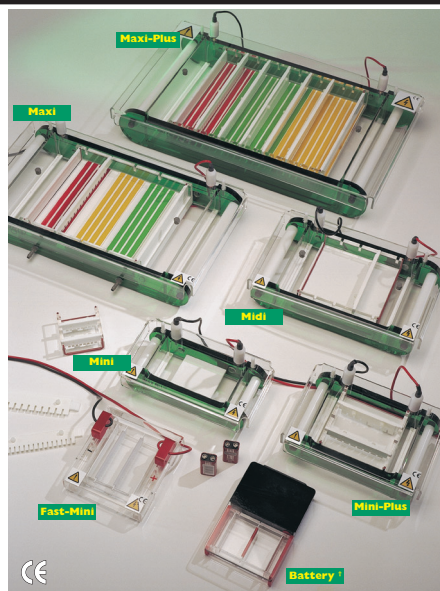
The Scie-Plas range of Horizontal Gel Electrophoresis Units comprises seven models covering gel sizes from 6 x 7.5cm up to 25 x 30cm. Additionally, the two largest models are available with cooled bases to allow gels to be run at higher voltages without loss of resolution.

All models incorporate the many design and safety features recommended by scientists. The resulting range of gel units is manufactured to the highest specification, well finished, easy to use and extremely safe. They conform to all of the required European CE safety regulations.

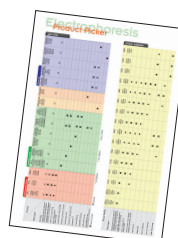
The **MINI** series are ideal for a wide range of samples including those from plasmid preps, PCR® reactions, restriction fragments, RFLP analyses, etc. Additionally, they offer very fast separation of DNA and RNA restriction fragments in agarose gels.

The **MIDI** series accommodates standard gels for both analytical and preparative studies of nucleic acids.

The **MAXI** series are designed for high resolution electrophoresis. Applications include DNA analysis and PCR® and restriction fragment screening. Maxi-Plus, with its massive 624 sample capability, provides rapid and convenient screening of PCR® products, eg. HLA typing.



need help choosing  
the most suitable product  
for your application?  
- see facing page 1

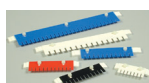


### GEL CASTING TRAY

Manufactured in UV transparent acrylic. End grooves for seating the Gel Casting Gates. Slots for positioning the combs

### COMBS

A wide range of combs are available for every model - colour coded for thickness



### POWER CONNECTION

When the lid is open a physical barrier prevents power leads from making an electrical connection to the tank

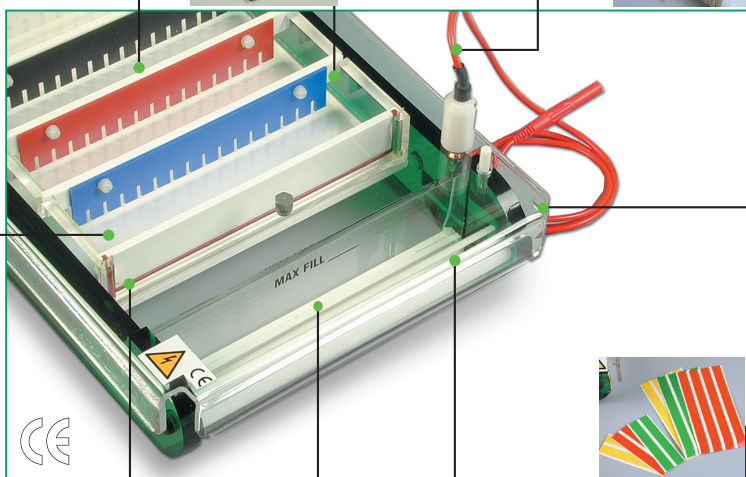
### LIFT OFF LID

Safety lids fit on one way only, this prevents access to live components



### WHITE GEL TABLE

Enhances the visibility of marker dyes and samples as they migrate through the gel



### CASTING GATES

On Maxi and Maxi-Plus models, 5mm gates fit neatly into grooves to create convenient tape-free seals

### ELECTRODES

Of pure platinum, and can be easily replaced by the user

### EASILY CARRIED

Carrying handles add strength to the units, as well as facilitating their transportation, for example, when emptying used buffer

### COLOURED STRIPS

When attached to the White Gel Table, these coloured strips enhance visibility when sample loading

## GEL CASTING

In both the Battery Gel and the Fast-Mini Gel, agarose is poured directly into the UV transparent unit. The HU6, HU10 and HU13 units, have a 6mm thick UV-transparent gel casting tray. These are manufactured with silicone rubber end gaskets, which fit snugly into precision, machined grooves. This allows rapid, simple and reliable tape-free gel pouring, directly in the running tank. Additional gels may be cast using a separate gel casting unit. The larger HU20 and HU25 Units, have gel casting gates with edged gaskets. The casting gates are placed in the gel casting tray for leak-free gel pouring. Each unit is supplied with appropriate combs and a gel running/casting tray.

# Horizontal Gel Units

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 Fax: 021 312 42 61  
 labware@alys-technologies.com

## FAST MINI and BATTERY MINI

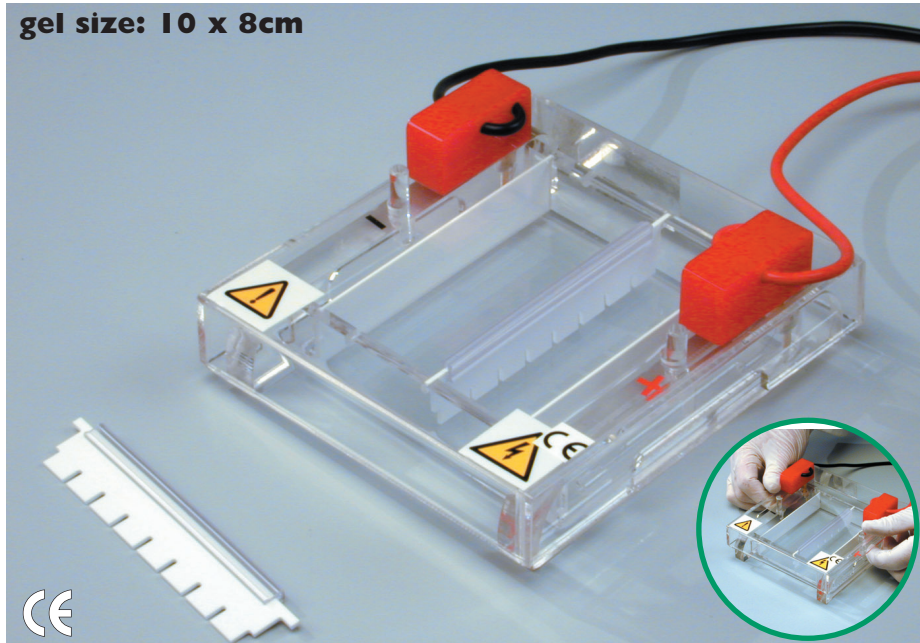
with Built-in Casting Tray

- Compact size
- Low buffer volumes
- Gels cast directly in the unit
- Whole unit can be placed on UV transilluminator
- Robust UV-transparent acrylic construction
- Dual comb slots

Typical Applications

Accommodates standard gels for both analytical and preparative studies of nucleic acids

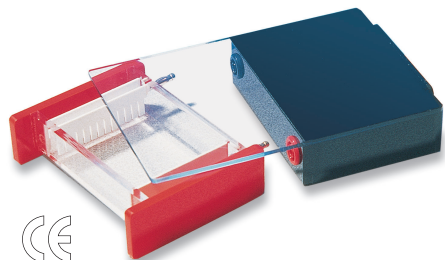
gel size: 10 x 8cm



This **Fast Mini** Horizontal Gel Unit is designed for routine electrophoresis. Its ultra-compact size requires the use of minimum buffer volumes. The gel is cast directly in the unit, with the casting gates in place. To run the system, the gates are simply removed.

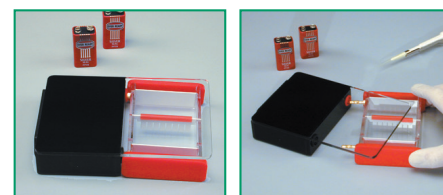
Its compact size allows the complete UV-transparent unit to be easily placed on a transilluminator for gel visualisation.

The **Battery Minigel** is designed for electrophoresis with complete safety - **No power supply required**. It requires only minimum amounts of gel and running buffer. The unit is ideal for a wide range of samples including those from plasmid preps, PCR® reactions etc. The gel is cast directly in the UV-transparent tank, with the gel casting gates in place. Simply remove the gates, add running buffer and samples to run the system.



gel size: 6 x 7.5cm

- Accommodates pre-cast agarose gels
- Battery pack with integrated safety lid
- Safety lid provides complete protection to the user



for comb specifications and ordering details see pages 14/15

see inside back cover for Technical Tips

### Technical Specifications

Gel dimensions, (W x L)	Fast-Mini	10 x 8cm
	Battery	6 x 7.5cm
Unit dimensions (W x L x H)	Fast-Mini	13.5 x 15 x 3cm
	Battery	11 x 17 x 3.5cm
Max. sample capacity	Fast-Mini	40
	Battery	32
Buffer volume	Fast-Mini	50ml
	Battery	50ml
Combs available :		
No. of samples	Fast-Mini	1, 4, 8, 12, 16, 20
	Battery	4, 8, 12, 16
Thicknesses	Fast-Mini	1, 1.5mm
	Battery	1mm

### Ordering Information

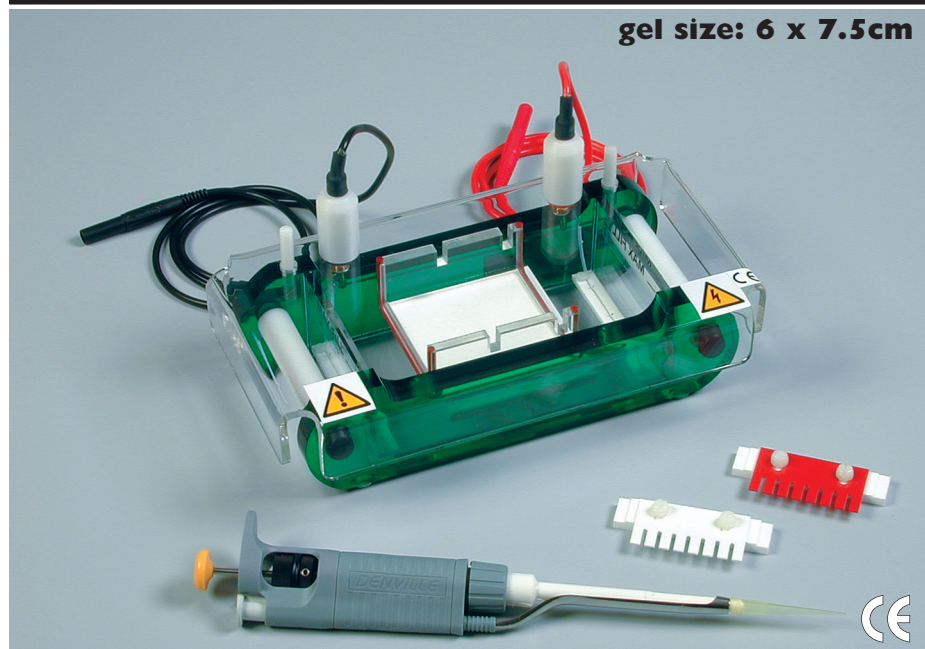
<b>Fast-Mini Horizontal Gel Unit</b> with built-in Gel Tray	H1-SET
Includes 2 x Gel Casting Gates, 2 x 1.5mm, 8 Sample Combs.	
Plastic Casting Gates, pk/2	H1-CG
<b>Battery Operated Mini Gel Unit</b> with Built-in Gel Casting Tray	HB-SET
Includes 2 x Gel Casting Gates, 1 x 1mm 8 Sample Comb, 2 x Non-rechargeable PP3 batteries	
Gel Casting Gates, pk/2	HB-CG
PP3, Non-rechargeable batteries, pk/2	HB-BAT
Battery Life Checker	HB-LC
Replacement Pt Wire, 50cm	PT-0.2

# Horizontal Gel Units

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## MINI Horizontal

gel size: 6 x 7.5cm



with Removable Gel Casting Tray

- Compact size
- Low buffer volumes
- Ideal for rapid electrophoresis

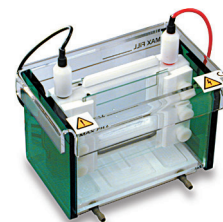
Typical Applications

Designed for rapid separation of DNA and RNA restriction fragments in agarose gels

**Mini** Horizontal Gel Units are ideal for routine rapid electrophoresis. They feature a removable UV-transparent gel casting tray, with end gaskets which allows the gel to be cast directly in the running tank. Extra gels can be cast using an additional gel casting unit.

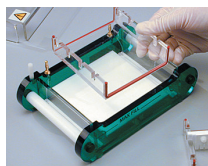
### Gel Casting

Scie-Plas offers three different methods of gel casting for its Mini, Mini-Plus and Midi series. As standard with all sizes, **in-tank casting** without the need for tape, is possible and is shown below. **Silicone casting gates** offer a simple and effective tape-free method of pre-casting gels while the tank is being used for electrophoresis. This option is shown on page 6. To allow pre-casting of several gels simultaneously, a **multiple unit** allows up to three Casting Trays to be poured at one time. This option is shown on page 8.

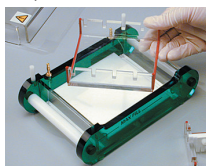


for Vertical Gel Electrophoresis, see page 16

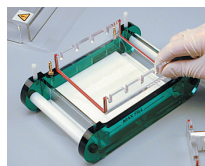
### MINIGEL CASTING for Mini, Mini-plus and Midi series



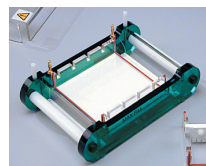
Lift the gel casting tray out of the unit. Make sure that the silicone gasket is seated evenly in the groove, with the ends flush with the top of the tray. Turn the tray through 90°



Insert the tray so that the silicone rubber forms a tight, leak free seal with the walls of the gel tank.



The agarose gel should be cooled to 50°C, poured into the tray and allowed to set. When ready, lift the running tray, turn it through 90° and replace in tank...



Gel is ready for sample loading and run.



### Ordering Information

<b>Mini Horizontal Gel Unit with Removable Gel Casting Tray</b>	HU6
Includes: 1 x UV Tray 6 x 7.5cm (W x L), 2 x 1mm, 8 Sample Combs, Coloured Strips	
Gel Casting Tray 6 x 7.5cm	HU6-UT
Silicone Casting Gates	HU6-SCG
Silicone Gasket, 1 metre	HU-SG
Coloured Loading Strips	HU6-CS
External Casting Unit for 3 Gel Casting Trays	HU6-CU
Replacement Pt Wire, 50cm	PT-0.2

### Technical Specifications

Gel dimensions, (W x L)	Mini	6 x 7.5cm
Unit dimensions, (W x L x H)	Mini	13 x 24 x 6.5cm
Max. sample capacity	Mini	32
Buffer volume	Mini	325ml
Combs available :		
No. of samples		4, 8, 12, 16
Thicknesses		1, 1.5, 2mm

# Horizontal Gel Tanks

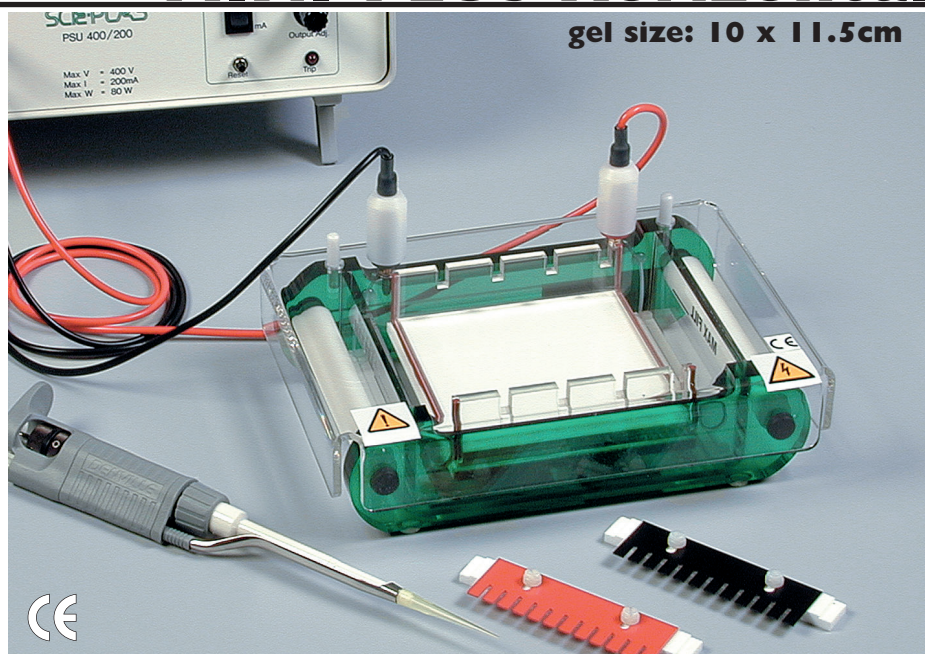
ALYS Labware, Lausanne  
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 Fax: 021 312 42 61  
 labware@alys-technologies.com

## MINI-PLUS Horizontal

with Removable Gel Casting Tray

- Compact size
- Low buffer volumes
- Ideal for rapid electrophoresis

custom build products available  
 please call for a quotation



gel size: 10 x 11.5cm

Typical Applications

Designed for rapid separation of DNA and RNA restriction fragments in agarose gels

**Mini-Plus** Horizontal Gel Units are ideal for routine rapid electrophoresis. They feature a removable UV-transparent gel casting tray, with end gaskets which allows the gel to be cast directly in the running tank. Extra gels can be cast using an additional gel casting unit.

### Gel Casting

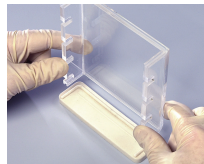
Scie-Plas offers three different methods of gel casting for its Mini, Mini-Plus and Midi series. As standard with all sizes, **in-tank casting** without the need for tape, is possible and is shown on page 5. **Silicone casting gates** shown below, offer a simple and effective tape-free method of pre-casting gels while the tank is being used for electrophoresis. To allow pre-casting of several gels simultaneously, a **multiple unit** allows up to three Casting Trays to be poured at one time. This option is shown on page 8.

for comb specifications and ordering details see pages 14/15

### SILICONE CASTING GATES for Mini, Mini-Plus and Midi series



Place the Silicone Casting Gates on the bench.....



Lower the Casting Tray so that the groove locates in the raised edges of the Gates. Push down to form a leak-free seal.



Rotate the Casting Tray and repeat the process with the other Silicone Casting Gate.



The assembly is now ready for gel pouring and inserting suitable combs. When set, simply remove the Gates and place the Tray in the appropriate Gel Unit.

### Technical Specifications

Gel dimensions, (W x L)	Mini-Plus	10 x 11.5cm
Unit dimensions (W x L x H)	Mini-Plus	16.5 x 23 x 6.5cm
Max. sample capacity	Mini-Plus	80
Buffer volume	Mini-Plus	450ml
Combs available : No. of samples Thicknesses		4, 8, 10, 12, 16, 20 1, 1.5, 2mm

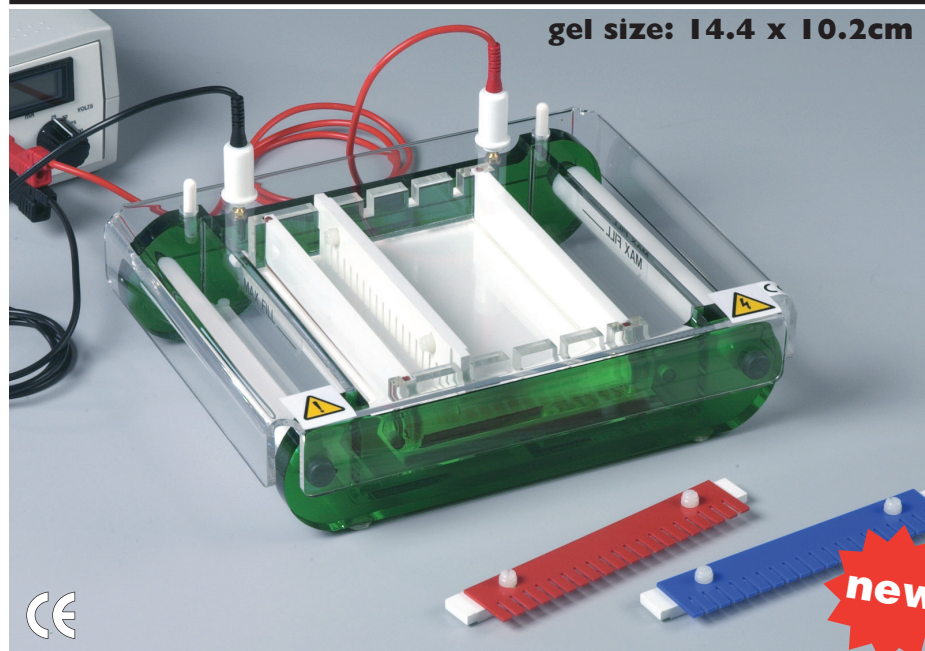
### Ordering Information

<b>Mini-Plus Horizontal Gel Unit with Removable Gel Casting Tray</b>	HU10
Includes: 1 x UV Tray 10 x 11.5cm , 2 x 1mm ,16 Sample Combs, Coloured Strips	
Gel Casting Tray	HU10-UT
Silicone Casting Gates	HU10-SCG
Silicone Gasket, 1 metre	HU-SG
Coloured Loading Strips	HU10-CS
External Casting Unit for 3 Gel Casting Trays	HU10-CU
Replacement Pt Wire, 50cm	PT-0.2

# Horizontal Gel Units

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## Wide Format MINI-PLUS Horizontal



with Removable Gel Casting Tray

- Compact size
- Low buffer volumes
- Run up to 80 samples
- Ideal for rapid electrophoresis
- Casting Tray with four comb positions

**Wide Format Mini-Plus** Horizontal Gel Units are ideal for routine rapid electrophoresis. They differ from the popular Mini-Plus units only in width, being wider so that a greater number of samples can be run on one gel **without compromising sample volume**. The Wide Format Units also feature a removable UV-transparent gel casting tray, with casting gates which allow the gel to be cast either in the running tank or externally.

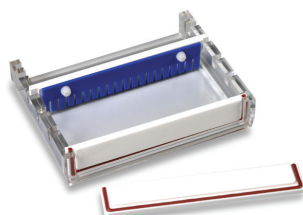
**Typical Applications**

Designed for rapid separation of DNA and RNA restriction fragments in agarose gels

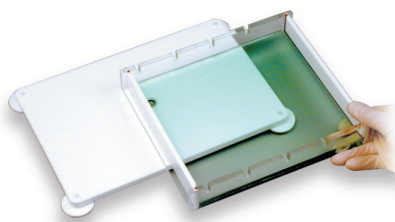


for Power Supplies, see pages 34/35 and Product Picker facing page 1.

**GEL CASTING** for Wide and Long Format Units



Gel casting is simple using integral gates. The silicone rubber gaskets effectively seal the tray without the need for tape. Position with gasket facing outwards as shown.



**Levelling Table** for even gels, see page 13

for comb specifications and ordering details see pages 14/15

### Ordering Information

<b>Wide Format Mini-Plus Horizontal Gel Unit</b> with Removable Gel Casting Tray	HU10W
Includes: 14.4 x 10.2cm gel casting tray with gates, 2 x 1mm, 20 Sample Combs, & Coloured Strips	
Gel Casting Tray	HU10W-UT
Gel Casting Gates	HU10W-CG
Coloured Loading Strips	HU10W-CS
Buffer Recirculation Ports	HU-BRP
Replacement Pt Wire, 50cm	PT-0.2

### Technical Specifications

Gel dimensions, (W x L)	Wide Mini-Plus	14.4 x 10.2cm
Unit dimensions (W x L x H)	Wide Mini-Plus	20 x 25 x 6.5cm
Max. sample capacity	Wide Mini-Plus	80
Buffer volume	Wide Mini-Plus	500ml
Combs available :		
No. of samples		4, 8, 10, 12, 16, 20
Thicknesses		1, 1.5, 2mm