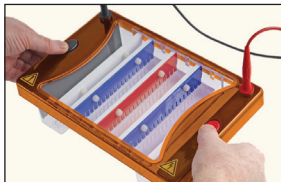


# Clarit-E<sup>®</sup>

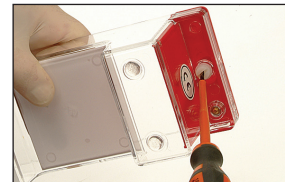
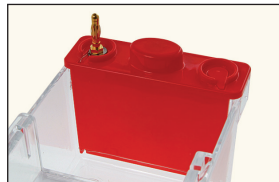
## Horizontal Gel Systems ... ... clearly better resolution.

- **Injection Moulded Construction** – durable, leak-proof environment for complete safety and long life
- **Cassette Type Electrodes** – inexpensive, easy to replace. Made of 99.99% corrosion resistant, pure platinum
- **Electrical Safety** – lid can be located in one way only. On removal, power is disconnected from the buffer chamber
- **Multiple Gel Trays** – eliminate the need for additional gel tanks

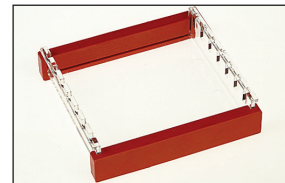
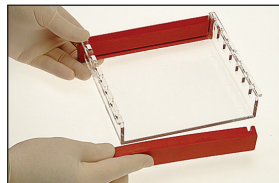
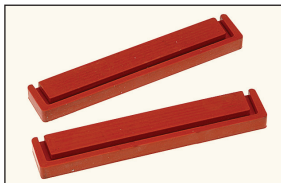
Easy Click Lid Removal



Cassette Type Electrodes can be easily replaced by the user



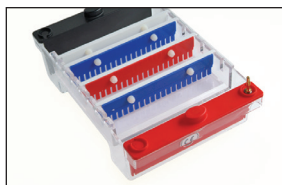
"Plug and go" gel casting



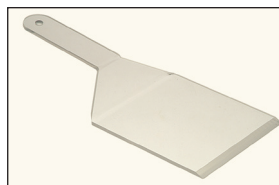
Casting dams allow gels to be rapidly cast externally while the Clarit-E™ unit is in use for gel running.



Flexicasters allow the casting of varying gel lengths simply by locking the moveable dam. Adjustable feet and level bubble allow gels of uniform thickness to be poured.

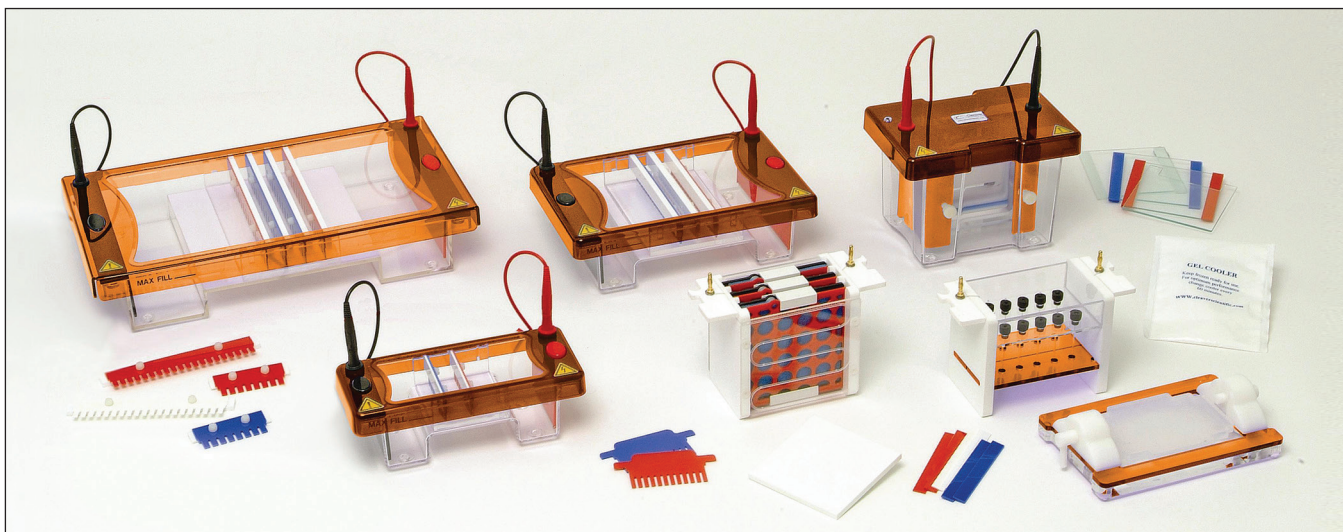


Trays are UV transparent. White PVC platform cover and red loading guides can be optionally applied to enhance Well visibility. Gel trays are free of indentations or casting gate channels, which can interfere with sample progression.



UV transparent Gel Scoops, available for each unit size, offer a safe and easy way to transport gels to a UV Transilluminator.

A complete range of accessories and combs are available. Please visit our website for full details.

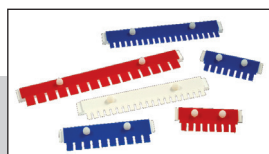


The Clarit-E series of horizontal gel units offers the most versatile solution for DNA and RNA agarose gel electrophoresis currently available.

All units offer unsurpassed economy of gel and buffer volume, with gel size and sample number versatility. This eliminates the need for multiple gel tanks for changes in gel size or application.

All units contain removable UV transparent trays. Gel size and sample number requirements can be exactly matched in each unit as systems are available with one, two or three tray options (dependent on model). Easy to use, leak-proof 'plug and go' gel casting dams are included as standard to allow gels to be rapidly cast whilst the Clarit-E unit is in use for gel running. Traditional tape casting can be used, should this be preferred.

Although lid connectors are compatible with most major power supplies, adapters are available to provide complete compatibility.



### Extensive range of combs

Four thicknesses, colour coded:

- Black:** 0.75mm for ultra resolved bands
- White:** 1mm supplied as standard
- Red:** 1.5mm for maximising sample volume
- Blue:** 2mm for maximising sample volume

Options for sample prep

Options for multichannel pipette loading

The number of samples can be maximised using combs with higher numbers of teeth.

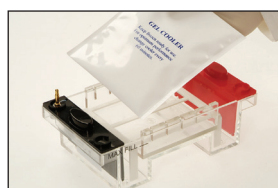
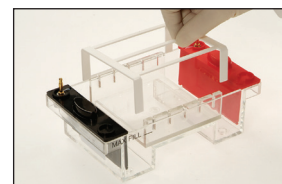
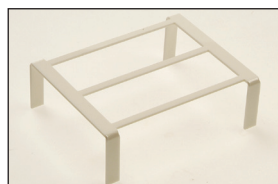


Corrosion resistant gold plated terminals

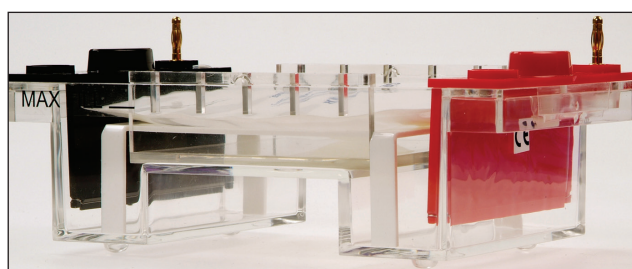


Retractable connectors compatible with most major power supplies.

### High efficiency horizontal gel cooling

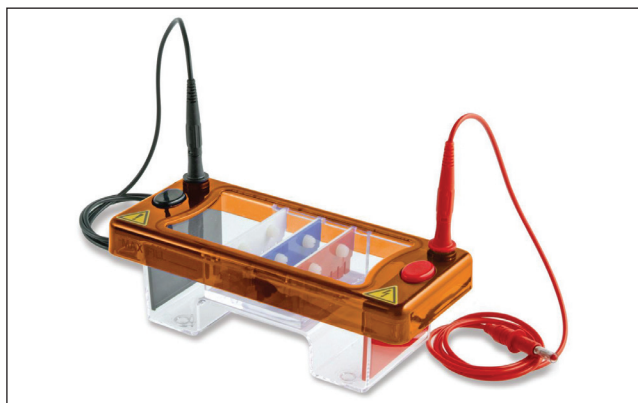


Removable gel table allows a Coolpack to sit above the gel in buffer offering enhanced gel resolution and faster run times.



**CE** All units are CE marked and are in conformity with the relevant CE Safety Directives: 73/23/EEC: LOW VOLTAGE DIRECTIVE: IEC 61010-1:2001. EN 61010-1:2001; 89/336/EEC EMC DIRECTIVE: EN55011 Emissions, EN50082-1 Immunity.

## Clarit-E<sup>®</sup> Mini Horizontal Gel Tank



- Available with 7 x 7cm, 7 x 10cm or with both gel trays
- Economic low gel and buffer volumes
- Small lab bench footprint

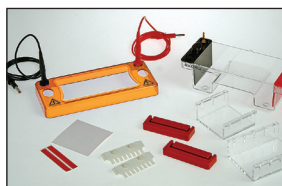
*Typical application:* Designed for quick checks of low to medium numbers of samples.

The Clarit-E Mini is the smallest unit in the range, designed to maximise run economy without compromising versatility as two tray options are available, and combs ranging from preparative up to 16 samples.

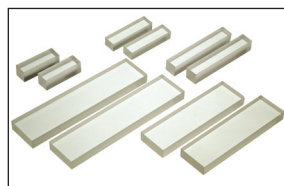
Maximum separation distance is 9cm.

Technical Specifications	
Gel dimensions (W x L)	7 x 7cm, 7 x 10cm
Unit dimensions (W x L x H)	21 x 9 x 9cm
Max. sample: 7 x 7cm tray	32 samples
7 x 10cm tray	64 samples
Buffer volume	225ml
Combs available	1, 2, 4, 8MC, 8, 10, 12MC, 16
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Mini Horizontal Gel Tank	
Catalogue Number	Description
EL1000	Mini, 7 x 7cm UV tray, 2 combs, loading guides & dams
EL1100	Mini, 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1050	Mini, 7 x 7cm & 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1002	7 x 7cm UV tray
EL1102	7 x 10cm UV tray

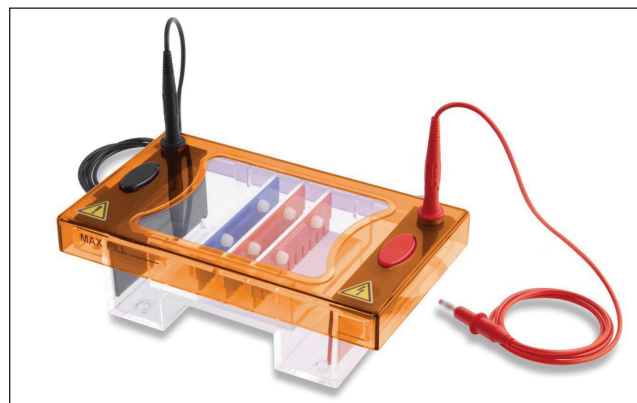


Components of Clarit-E EL1050



Buffer saver blocks are available for all units, which physically reduce the volume of a gel chamber and so reduce buffer requirements, saving cost.

## Clarit-E<sup>®</sup> Midi Horizontal Gel Tank



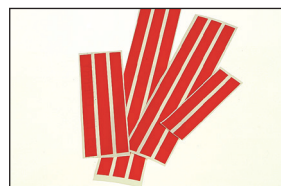
- Available with 10 x 7cm, 10 x 10cm or with both gel trays
- Run up to 100 samples
- Low buffer volumes
- Ideal for rapid electrophoresis

*Typical application:* Ideal for quick checks of samples from PCR and cloning.

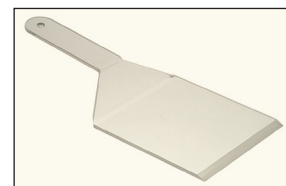
Designed for routine checks of a medium number of samples over short to medium gel lengths. Wider than the Clarit-E Mini it allows more samples to be resolved per gel without a significant increase in buffer or gel volumes.

Technical Specifications	
Gel dimensions (W x L)	10 x 7cm, 10 x 10cm
Unit dimensions (L X W x H)	22 x 12.5 x 9cm
Max. sample: 10 x 7cm tray	50 samples
10 x 10cm tray	100 samples
Buffer volume	300ml
Combs available	1, 2, 4, 8, 10MC, 12, 16, 20MC, 25
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Midi Horizontal Gel Tank	
Catalogue Number	Description
EL1200	Midi, 10 x 7cm UV tray, 2 combs, loading guides & dams
EL1300	Midi, 10 x 10cm UV tray, 2 combs, loading guides & dams
EL1250	Midi, 7 x 7cm & 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1202	10 x 7cm UV tray
EL1302	10 x 10cm UV tray



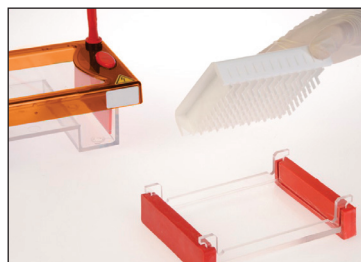
Loading Guides allow easy well identification and sample loading.



Scoops for safe transfer of gels.

## Clarit-E<sup>®</sup> Midi 96 Horizontal Gel Tank

The Clarit-E Midi 96 is ideal for separation of PCR products, or DNA samples containing only a few bands, from 96-Well microtitre plates and thermal cycler blocks.



### Rapid Testing –

96 Wells can be cast simultaneously within a single gel in a precise 96-Well microplate configuration.

**Rapid Loading** – gels can be loaded quickly and easily by 8-channel pipette.

**Extended Separation** – offset layout of the Wells ensures a longer run length per Well.

**High Speed & High Throughput** – 96 samples loaded and separated in 15 to 30 minutes without loss of resolution.

**Easy Sample Identification** – exact configuration of 96-Well microplates allows samples to be quickly and easily identified from original microplates.

### Technical Specifications

<b>Gel dimensions (W x L)</b>	10 x 12cm
<b>Unit dimensions (W x L x H)</b>	12.5 x 22 x 9cm
<b>Max. sample</b>	96 samples plus 1 or 2 marker lanes 192 for Midi 96 Double
<b>Buffer volume</b>	300ml
<b>Combs available</b>	8MC + 1 marker lane
<b>No. of samples</b>	8MC + 2 marker lanes
<b>Thickness</b>	1.5, 2mm
<b>Recommended power supply</b>	EL2730

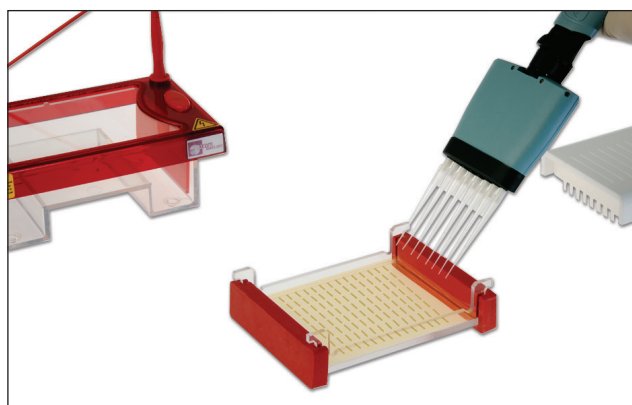
### Midi 96 Horizontal Gel Tank

Catalogue Number	Description
EL1350	Midi 96, UV tray, comb block with 12 x 8 sample, 1mm thick combs with 1 marker lane, casting dams
EL1355	Midi 96, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with 1 marker lane, casting dams
EL1360	Midi 96, UV tray, comb block with 12 x 8 sample, 1mm thick combs with 2 marker lanes, casting dams
EL1365	Midi 96, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with 2 marker lanes, casting dams

### Accessories and Combs

Catalogue Number	Description
EL1370	Comb block for EL1350
EL1375	Comb block for EL1355
EL1380	Comb block for EL1360
EL1385	Comb block for EL1365
EL1386	8-sample, 1mm thick comb, 1 marker lane
EL1387	8-sample, 1.5mm thick comb, 1 marker lane
EL1388	8-sample, 1.5mm thick comb, 2 marker lanes
EL1389	8-sample, 1mm thick comb, 2 marker lanes
EL1390	Midi, 96-Well tray

## Clarit-E<sup>®</sup> Midi 96 Stretch Horizontal Gel Tank



The Clarit-E Midi-96 Stretch Horizontal Gel Systems have all the features of the Midi 96 systems with the additional benefit of an extended run length per Well of up to 3.6cm. This allows greater resolution of samples.

### Technical Specifications

<b>Gel dimensions (W x L)</b>	10 x 24cm
<b>Unit dimensions (W x L x H)</b>	12.5 x 46 x 8cm
<b>Max. sample</b>	96 samples plus 1 or 2 marker lanes
<b>Buffer volume</b>	700ml
<b>Combs available</b>	8MC + 1 marker lane
<b>No. of samples</b>	8MC + 2 marker lanes
<b>Thickness</b>	1, 1.5mm
<b>Recommended power supply</b>	EL2730

### Midi 96 Stretch Horizontal Gel Tank

Catalogue Number	Description
EL1310	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1mm thick combs, casting dams
EL1320	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with one marker lane, casting dams
EL1330	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1mm thick combs with two marker lanes, casting dams
EL1340	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with two marker lanes, casting dams
EL1345	Midi 96 Stretch Double, UV tray, comb block with 24 x 8 sample, 1mm thick combs, casting dams

### Accessories and Combs

Catalogue Number	Description
EL1312	Comb block for EL1310
EL1322	Comb block for EL1320
EL1332	Comb block for EL1330
EL1342	Comb block for EL1340
EL1386	8 sample, 1mm thick comb. 1 marker lane
EL1387	8 sample, 1.5mm thick comb. 1 marker lane
EL1389	8 sample, 1mm thick comb. 2 marker lanes
EL1388	8 sample, 1.5mm thick comb. 2 marker lanes
EL1316	Midi 96 Stretch, Tray

## Clarit-E® Choice Horizontal Gel Tank



- Three tray options
- Run up to 210 samples
- Low buffer volumes
- Multichannel pipette compatible combs for speed loading

**Typical application:** Ideal for restriction fragment analysis, sample prep or checking of high numbers of samples.

The Clarit-E Choice offers a wide degree of versatility. Three tray options are available allowing the choice of one, two or all three gel length options at the time of purchase. The 15cm total run length allows restriction fragment or other close MW sample bands to be easily separated and identified.

Technical Specifications	
<b>Gel dimensions (W x L)</b>	15 x 7cm, 15 x 10cm, 15 x 15cm
<b>Unit dimensions (W x L x H)</b>	26.5 x 17.5 x 9cm
<b>Max. sample:</b>	
20 x 10cm tray	70 samples
20 x 20cm tray	140 samples
20 x 25cm tray	210 samples
<b>Buffer volume</b>	500ml
<b>Combs available</b>	1, 2, 4, 10, 10MC, 12, 14MC, 16MC, 18MC,
<b>No. of samples</b>	20, 28MC 30MC, 35 - Choose any two
<b>Thickness</b>	0.75, 1, 1.5, 2mm

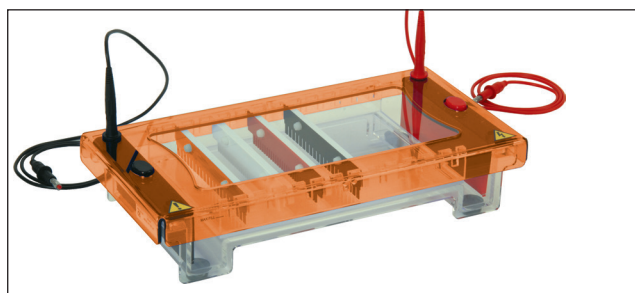
Choice Horizontal Gel Tank	
Catalogue Number	Description
EL1450	Choice, 15 x 7cm UV tray, 2 combs, loading guides & dams
EL1400	Choice, 15 x 10cm UV tray, 2 combs, loading guides & dams
EL1500	Choice, 15 x 15cm UV tray, 2 combs, loading guides & dams
EL1550	Choice Trio, 15 x 7, 10 & 15cm UV tray, 2 combs, loading guides and dams
EL1510	Choice Trio, 3 x 15 x 15cm UV trays, 2 combs, loading guides and dams

Accessories	
Catalogue Number	Description
EL1452	15 x 7cm UV tray
EL1402	15 x 10cm UV tray
EL1502	15 x 15cm tray



Clarit-E Choice Trio includes all 3 tray sizes for optimum versatility and value.

## Clarit-E® Choice Stretch Horizontal Gel Tank



- Available with 15 x 20cm and 15 x 25cm gel trays
- Run up to 350 samples
- Multichannel pipette compatible combs for speed loading

**Typical application:** Ideal for higher resolution separations such as separating samples with very similar molecular weights.

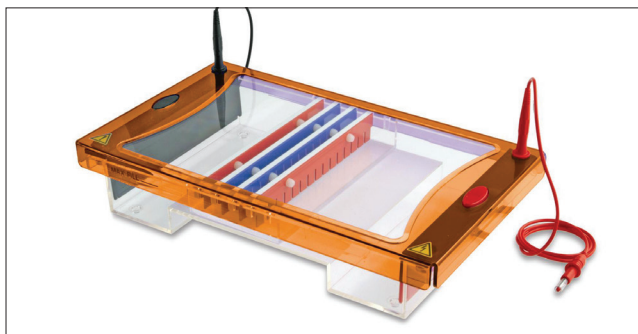
The addition of the stretch Choice units increases the flexibility of this popular range of gel tanks. The extended run lengths allow restriction fragments or other close molecular weight sample bands to be easily separated and identified. The Clarit-E Choice stretch gel tanks are ideal for researchers wanting to perform higher resolution separation of more samples over a longer distance. Speed loading is accomplished using 10, 14, 16, 18, 28 or 30 sample multi-channel pipette compatible combs.

Technical Specifications:	
<b>Gel dimensions (W x L)</b>	15 x 20cm, 15 x 25cm
<b>Unit dimensions (W x L x H)</b>	17.5 x 41 x 9cm
<b>Max. sample:</b>	
15 x 20cm tray	280 samples
15 x 25cm tray	350 samples
<b>Buffer volume</b>	1000ml
<b>Combs available</b>	1, 2, 4, 10, 10MC, 12, 14MC, 16, 18MC,
<b>No. of samples</b>	20, 28MC 30MC, 35 - Choose any four
<b>Thickness</b>	0.75, 1, 1.5, 2mm

Choice Stretch Horizontal Gel Tank	
Catalogue Number	Description
EL1430	Choice Stretch 20, 15 x 20cm UV tray, 4 combs, casting dams, loading guides
EL1440	Choice Stretch 25, 15 x 25cm UV tray, 4 combs, casting dams, loading guides

Accessories	
Catalogue Number	Description
EL1432	15 x 20cm UV tray
EL1442	15 x 25cm UV tray

## Clarit-E Maxi Horizontal Gel Tank



- Available with 20 x 25cm, 20 x 20cm or 20 x 10cm gel trays
- Run up to 550 samples
- Low buffer volumes
- Ideal for extended separations

*Typical application:* Primarily designed for separating high numbers of samples from PCR or cloning.

The Clarit-E Maxi allows ultra high-resolution separations over extended runs. Tray sizes correspond to standard blotter sizes. It also allows easy sample transfer onto a membrane for further analysis. Multichannel pipette compatible combs facilitate speed-loading.

### Technical Specifications

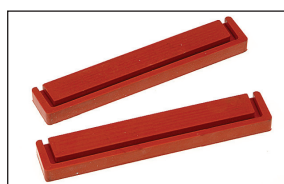
<b>Gel dimensions (W x L)</b>	20 x 10cm, 20 x 20cm, 20 x 25cm
<b>Unit dimensions (W x L x H)</b>	39.5 x 23 x 9cm
<b>Max. sample:</b>	
20 x 10cm tray	200 samples
20 x 15cm tray	350 samples
20 x 20cm tray	450 samples
20 x 25cm tray	550 samples
<b>Buffer volume</b>	1200ml
<b>Combs available</b>	1, 2, 4, 10, 16, 20MC, 25, 30, 36, 40MC, 50
<b>No. of samples</b>	Choose any two
<b>Thickness</b>	0.75, 1, 1.5, 2mm

### Maxi Horizontal Gel Tank

Catalogue Number	Description
EL1600	Maxi, 20 x 25cm UV tray, 2 combs, loading guides & dams
EL1620	Maxi, 20 x 20cm UV tray, 2 combs, loading guides & dams
EL1630	Maxi, 20 x 15cm UV tray, 2 combs, loading guides & dams
EL1640	Maxi, 20 x 10cm UV tray, 2 combs, loading guides & dams
EL1660	Maxi, 20 x 20cm & 20 x 10cm UV tray, 2 combs, loading guides and dams

### Accessories

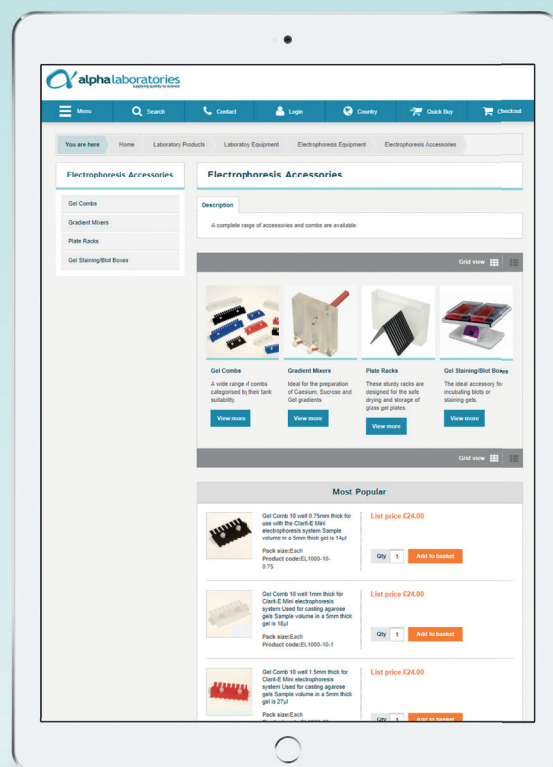
Catalogue Number	Description
EL1642	20 x 10cm UV tray
EL1632	20 x 15cm UV tray
EL1622	20 x 20cm UV tray
EL1602	20 x 25cm UV tray



Casting dams allow gels to be rapidly cast externally while the Clarit-E unit is in use for gel running.

Electrophoresis Equipment available online at [www.alphalabs.co.uk](http://www.alphalabs.co.uk)

Easy Access to All Your Accessories



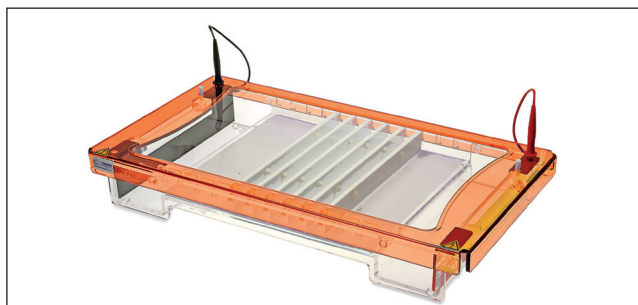
Find an extensive range of gel combs, gradient mixers, plate racks etc.

### Order Online for More Benefits

- Easy navigation mega menus and intuitive search
- Quick Buy feature
- Detailed product information, technical details, images
- Email confirmations and updates on your order progress
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- Check Order Status
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24/7 wherever you are

## Clarit-E<sup>®</sup> Screen



- Available with 26 x 16, 26 x 24 and 26 x 32cm or all three gel trays
- Run up to 672 samples
- Low buffer volumes
- Multichannel pipette compatible combs for speed loading

*Typical application:* Ideal for rapid screening of very large numbers of clonal or PCR samples or extended high resolution separations.

The Clarit-E Screen allows loading and analysis of exactly seven 96-Well format micro titre plates.

The large gel run length of up to 32cm also allows resolution of samples over a long distance for separation of complex sample bands such as in restriction fragment analysis. Buffer recirculation ports are included to allow enhanced resolution over extended runs.

### Technical Specifications

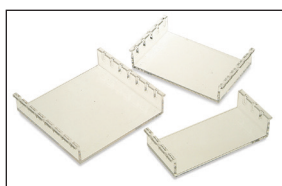
<b>Gel dimensions (W x L)</b>	26 x 32cm, 26 x 24cm, 26 x 16cm
<b>Unit dimensions (W x L x H)</b>	50 x 28 x 9cm
<b>Max. sample:</b>	
20 x 10cm tray	672 samples
20 x 20cm tray	504 samples
20 x 25cm tray	336 samples
<b>Buffer volume</b>	1400ml
<b>Combs available</b>	28M, 56MC
<b>No. of samples</b>	Choose any six
<b>Thickness</b>	0.75, 1, 1.5, 2mm

### Screen Horizontal Gel Tank

Catalogue Number	Description
EL1800	Screen, 26 x 32cm UV tray, 6 combs, loading guides & dams
EL1820	Screen, 26 x 24cm UV tray, 6 combs, loading guides & dams
EL1840	Screen, 26 x 16cm UV tray, 6 combs, loading guides & dams
EL1860	Screen, 26 x 16, 24 & 32cm UV tray, 6 combs, loading guides and flexicaster

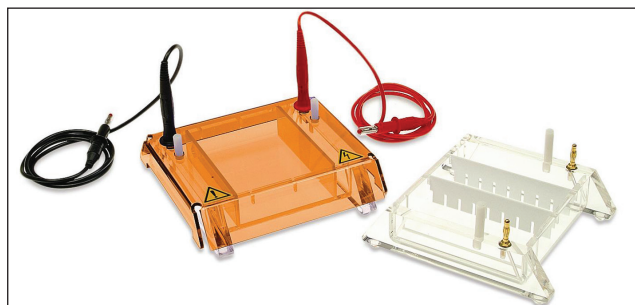
### Accessories

Catalogue Number	Description
EL1802	26 x 32cm UV tray
EL1822	26 x 24cm UV tray
EL1842	26 x 16cm UV tray



Clarit-E Choice Trio includes all 3 tray sizes for optimum versatility and value.

## Clarit-E<sup>®</sup> Fast Mini



- A convenient self-contained solution for routine agarose gel electrophoresis
- Ultra compact
- Low buffer and gel volumes
- Multichannel pipette compatible combs for speed loading

*Typical application:* For routine, rapid checking of samples.

Perform gel casting, running and analysis in the same unit. The parallel electrode arrangement allows ultra efficient current transfer, enabling resolution to be completed within 30 minutes. The UV transparent base allows direct viewing on a UV Transilluminator with no need for time-consuming transfer and potential gel damage. Dual comb slots.

### Technical Specifications

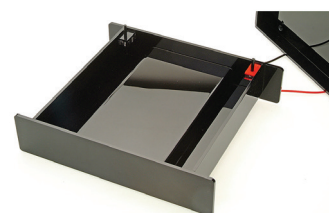
<b>Gel dimensions (W x L)</b>	10 x 8cm
<b>Unit dimensions (W x L x H)</b>	15 x 15 x 4cm
<b>Max. sample capacity</b>	40 samples
<b>Buffer volume</b>	50ml
<b>Combs available</b>	1, 4, 8, 12, 16, 20MC
<b>No. of samples</b>	Choose any two
<b>Thickness</b>	1, 1.5mm

### Fast Mini Horizontal Gel Tank

Catalogue Number	Description
EL1700	Fast Mini, 10 x 8cm, 2 combs 1.5mm & casting dams
EL1702	Fast Mini casting dams, pk/2

## Clarit-E<sup>®</sup> Comet Assay Tank

This Comet Assay Tank is available for use with 20 standard microscope slides to study single cell gel electrophoresis (SCGE), a technique made popular by drug toxicology and carcinogenesis studies for the detection and quantification of DNA damage in cells.



Each tank's robust construction from ebony acrylic ensures that cells remain free of exposure to background light and DNA damage during electrophoresis, while a cooled central platform provides a convenient surface for slide preparation and control of slide temperature during the assay. Following electrophoresis DNA damage may be measured using Comet Assay scoring software.

- For Single Cell Gel Electrophoresis
- Minimise exposure to light and reduce background DNA damage
- High efficiency cooling for enhanced resolution

## Single Cell Gel Electrophoresis

Initially back in the 1980's SCGE was used to quantify double-stranded DNA breakages in single cells exposed to irradiation. The technique has since been adapted to analyse specific DNA lesions and repair processes.

Cells are exposed to a genotoxic insult, such as ionising radiation, which results in strand breakage of supercoiled duplex DNA, thereby reducing the size of the large genomic DNA molecules. Following this treatment, cells are suspended within low melting point agarose which is smeared on to a microscope slide to create a thin layer in which the cells are embedded. Cellular protein is then removed by lysis in detergent, and the alkaline conditions promote the unwinding of the DNA in readiness for electrophoresis. The DNA is electrophoresed, stained and then analysed using software.

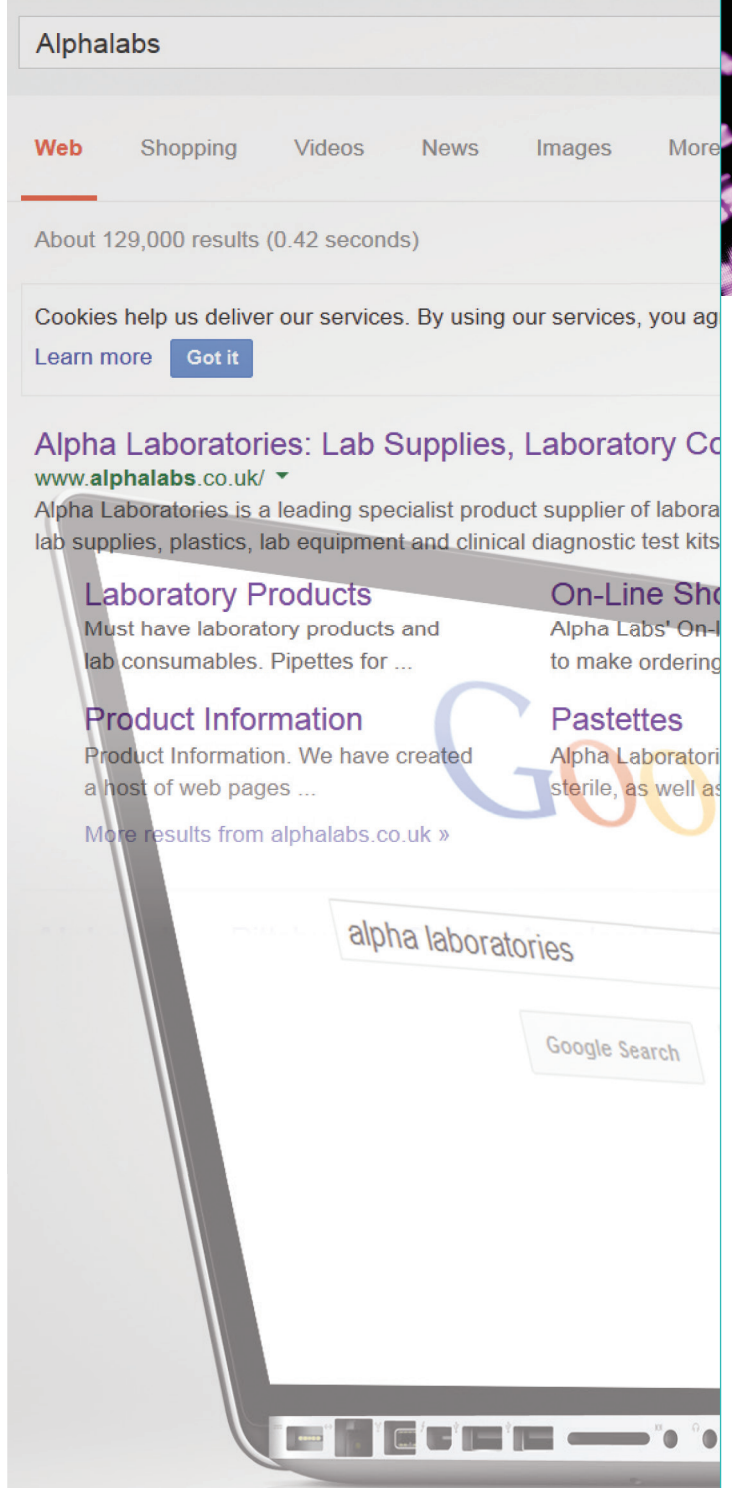
The electrophoresis draws out the DNA fragments and the genomic DNA takes on the appearance of a comet as its negatively charged broken ends and fragments migrate towards the anode during electrophoresis. The head of the comet is mainly composed of intact genomic DNA, whereas any fragmented or damaged DNA is concentrated within and towards the tail. Microscopy imaging is used to measure DNA fluorescence upon staining.

### Technical Specifications

Unit dimensions (W x L x H)	31 x 34 x 9cm
Max. sample capacity	20
Buffer volume	1000ml
Recommended Running Conditions	25V/300mA for 1 hour

### Comet Assay Tank

Catalogue Number	Description
EL1920	Comet assay tank for SCGE for up to 20 slides



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- Technical Specifications
- Supporting Literature and videos
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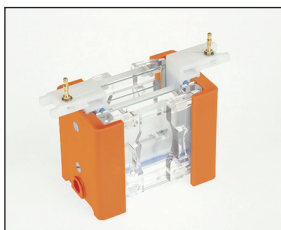


# Clarit-E®

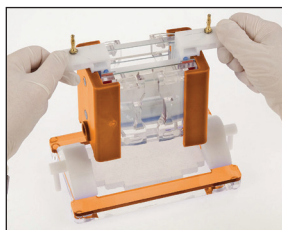
## Vertical Electrophoresis Systems ... ... clearly better resolution.

- **Rapid Gel Casting and Loading** – ensures trouble-free gel set-up
- **Versatile** – modules for slab gel, 2-D electrophoresis and electroblotting using a single universal buffer tank

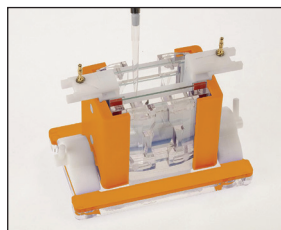
**Simple, rapid, leak-proof gel casting** (unique sliding gates gel clamping system is only applicable for Mini vertical tank)



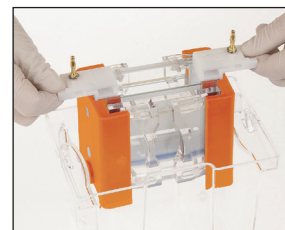
Insert glass plates and slide gates to create efficient seal



Transfer to casting base and tighten cams

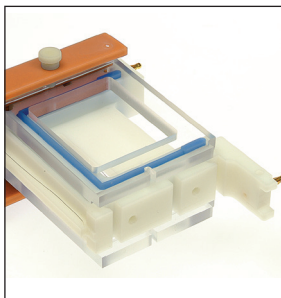


Insert gel solution and comb and allow to polymerise



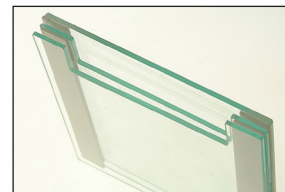
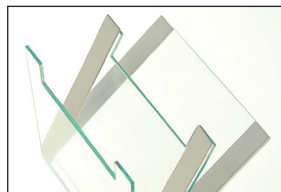
Transfer to tank, fill with buffer and run

### Pressure clamping frame



On the Mini gel tank a unique single-piece pressure frame offers the option of rapid single screw per side or new screw-free set up. Even pressure and buffer contact across the plates results in even sample migration and efficient heat removal from the gel. Glass plates are 2mm thick for Mini and 4mm thick for Mini Wide and Maxi tanks to reduce breakage.

### Run up to four gels at a time



While most vertical gel units can run only one or two gels, the Clarit-E Mini units can run one, two or up to four gels at any time using a triple glass plate sandwich.

### Effective buffer cooling

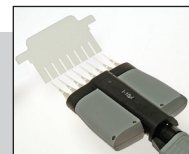


A simple to use cooling pack system ensures enhanced resolution without costly and time-consuming additional equipment. No chiller, tap or obstructing connecting leads are required. The cooling pack is simply pre-chilled in a freezer and placed in the gel tank. Additionally, the use of cooling packs reduces buffer volume.

### Extensive range of combs

Up to five thicknesses, colour coded:

- Purple:** 0.5mm for ultra resolved bands
- Black:** 0.75mm for ultra resolved bands
- White:** 1mm supplied as standard
- Red:** 1.5mm for maximising sample volume
- Blue:** 2mm for maximising sample volume

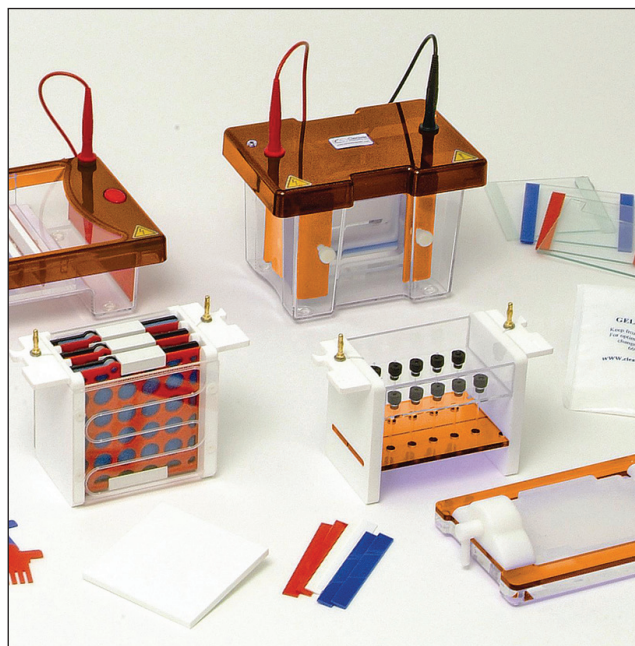


Options for sample prep

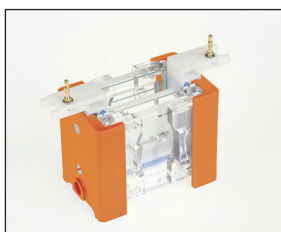
Options for multichannel pipette loading

The number of samples can be maximised using combs with higher numbers of teeth.

The Clarit-E range of Vertical Gel Units combines ease of use with high resolution separations. Three sizes, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm, share a host of common features including a guaranteed leak-proof seal required for trouble-free, rapid and uncomplicated gel casting. Utilising a built-in gel running module eliminates time-consuming transfer of glass plates following casting - a process which can cause gel damage and misalignment. Glass plates with permanently bonded spacers, guarantee perfect spacer alignment. The glass plate sandwich is simply inserted between pressure bars and a minimum of screws tightened. For the Clarit-E Mini there are no screws to tighten as the unique gel clamping system ensures fast set up times and guaranteed leak-proof gel casting. Following polymerisation, the gel running module is simply inserted into the gel tank for electrophoresis.



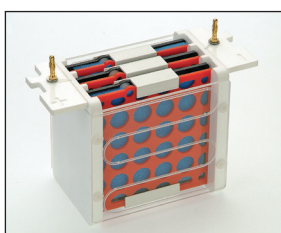
## Interchangeable Modules



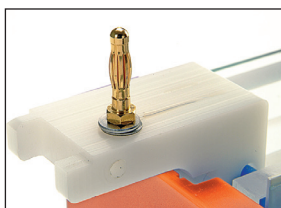
Running Module



2D Module



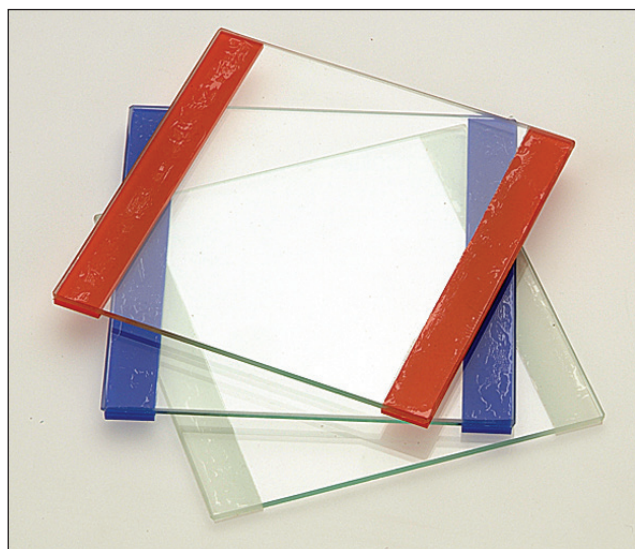
**Blotting Module** with double-hinged cassettes for added convenience.



Corrosion resistant, 99.99% pure platinum electrodes and gold plated terminals – easily replaced, ensuring minimum repair times.



Retractable connectors compatible with most major power supplies.

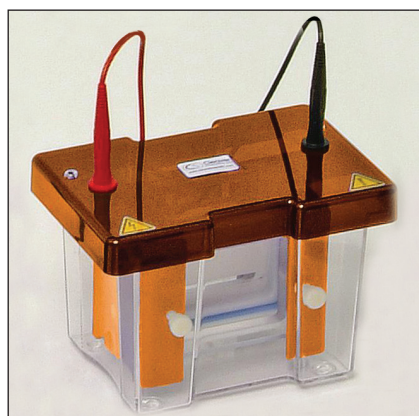


A complete range of accessories and combs are available. Please visit our website for full details.

**CE** All units are CE marked and are in conformity with the relevant CE Safety Directives: 73/23/EEC: LOW VOLTAGE DIRECTIVE: IEC 61010-1:2001. EN 61010-1:2001; 89/336 /EEC EMC DIRECTIVE: EN55011 Emissions, EN50082-1 Immunity.

## Clarit-E<sup>®</sup> Mini Vertical Gel Tank

- Injection Moulded construction
- Compatible with all 8 x 10 and 10 x 10cm precast gels
- Low buffer volumes
- Run up to 4 gels

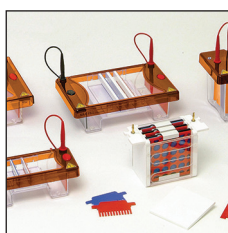


*Typical application: Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations.*

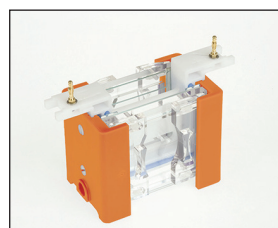
The preferred unit for routine mini protein electrophoresis, the Clarit-E Mini is constructed using the latest injection moulding manufacturing techniques. This gives a high quality, low cost product with unsurpassed finish, durability and strength.

The running insert has the option of sliding gates or a single screw per side for clamping gels.

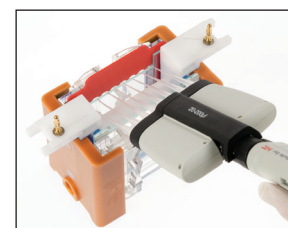
Accessory electroblotting and tube gel modules are available which use the same outer tank and lid. See Modular systems for further information.



Clarit-E Mini and optional accessories



Internal running module



Gel loading guides

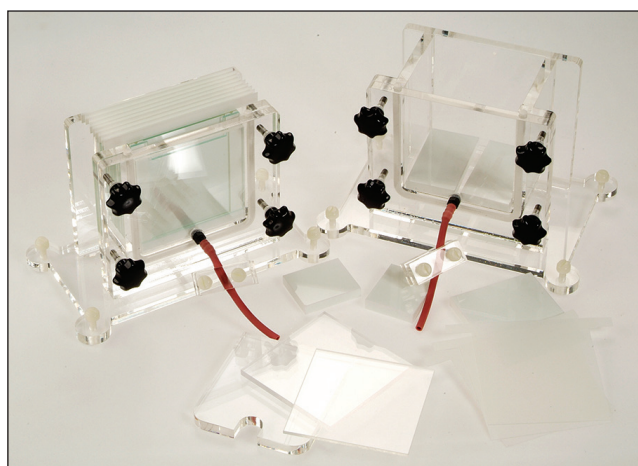
### Technical Specifications

<b>Plate dimensions</b>	10 x 10cm
<b>Gel dimensions (W x L)</b>	7.5 x 8cm
<b>Unit dimensions (W x D x H)</b>	19 x 13 x 15cm
<b>Max. sample capacity</b>	80 samples per unit 20 samples per gel
<b>Buffer volume</b>	Min 250ml; Max 1200ml
<b>Combs available</b>	1, 5, 8MC, 9, 10, 12, 16MC, 20
<b>No. of samples</b>	Choose any two
<b>Thickness</b>	0.75, 1, 1.5, 2mm

### Mini Vertical Gel Tank

Catalogue Number	Description
EL2004	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate
EL2000	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate and casting base
EL2012	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate, casting base, external casting upstand
EL2190	Mini Quad, 10 x 10cm includes 4 glass plates with bonded 1mm thick spacers, 4 combs, cooling pack, dummy plate, casting base, external casting upstand

## Clarit-E<sup>®</sup> Multiple Mini Gel Casting



- Integral levelling feet and level bubble
- Standard and gradient gels can be poured
- Choice of 2, 6, 12 or 24 gel casting models

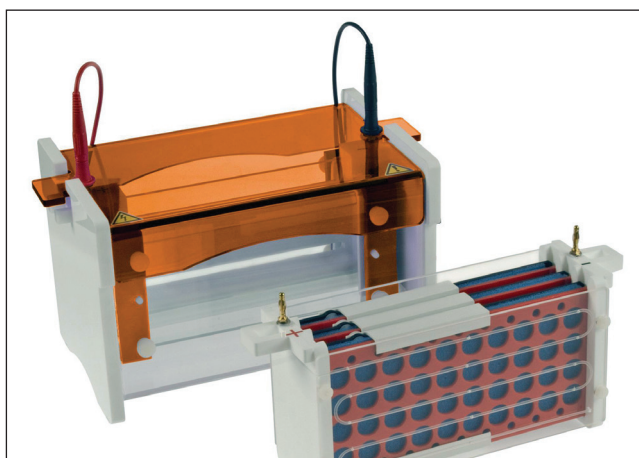
Advance casting of multiple mini gels can help to achieve consistent results between runs. These multiple gel casting systems are tailored for use with Clarit-E Mini vertical electrophoresis units; with three models of 2, 6, 12 and 24 gel capacities. Fewer gels can be poured if required using the acrylic saver blocks supplied with each system.

The fixed hinged clamps allows the gel sandwich to be adjusted to the correct pressure irrespective of the number or the thickness of gels being poured. Separation sheets allow the easy separation of the glass plates after pouring.

### Multiple Mini Gel Casting

Catalogue Number	Description
EL2018	2 Gel Caster for 8 x 10cm or 10 x 10cm gels
EL2166	12 Gel Caster for 8 x 10cm or 10 x 10cm gels

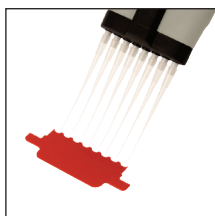
## Clarit-E® Mini Wide Vertical Gel Tank



- Offers the capacity of two mini gels on a single gel

- Optional low or high buffer volumes

*Typical application: Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations.*



The Clarit-E Mini Wide vertical gel unit with a gel width of 20cm effectively allows double the number of samples to be resolved as the Clarit-E Mini unit. This allows consistency of sample comparison on a single gel and is designed for those with greater than 20 samples to compare and resolve.

Both the Mini Wide and the Maxi system use 4mm thick glass plates which reduce breakage and have bonded spacers for added convenience. A wide range of accessories is available allowing many techniques to be performed using the same unit. Prep combs can be used to maximise sample loading and recovery.

*Uses same combs as Maxi systems*

Technical Specifications	
Plate dimensions	20 x 10cm
Gel dimensions (W x L)	18 x 8cm
Unit dimensions (W x D x H)	26 x 16 x 16cm
Max. sample capacity	192 samples per unit 48 samples per gel
Buffer volume	Min 600ml; Max 2800ml
Combs available No. of samples	1, 5, 10, 18MC, 24, 30, 36MC, 48 Choose any two
Thickness	0.75, 1, 1.5, 2mm

### Mini Wide Gel Tank

Catalogue Number	Description
EL2083	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack
EL2084	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack inc. casting base
EL2086	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack inc. casting base and external casting upstand

## Clarit-E® Maxi Z Vertical System

- For 20x20cm gels
- More Gels – run 2-4 gels simultaneously in standard 2-gel Maxi Z and 4-gel Maxi Z Tetrad systems

- Customise your system for second-dimension runs with 18cm IPG strips and gels using the IEF conversion kit



- Utilise modular inserts with the same universal tank and lid to extend the application of your standard Maxi Z unit to create a complete 2-D or blotting system

The new Vertical Maxi Z System is the latest product innovation for large format vertical gel electrophoresis. Designed to perform a variety of separations, including first and second-dimension SDS-PAGE, native, preparative, gradient and high-resolution nucleic acid electrophoresis, plus capillary tube gel IEF and electroblotting, the Maxi Z is one of the most versatile maxi vertical systems available.

By introducing innovative, new vertical screw-clamp technology within the PAGE insert only four screws are now necessary to secure up to four 20 x 20cm gels.

*Choose any two combs*

Technical Specifications			
Number of gels	1 - 4	Total Volume Inner Buffer Chamber	192 samples, 48 samples per gel
Handcast gels	Using glass plates and combs	Total buffer Volume	5.3L (2 gels) 4.8L (4 gels)
Plate Dimensions (W x H x T)	20 x 20cm x 0.4cm	Standard run time for SDS-PAGE Without Cooling With Cooling	4-5 hours 3-4 hours
Standard Spacer Dimensions (W x H)	2 x 20cm	Recommended power supplies	EV233 for IEF; EL2740 for PAGE; EL2750 for blotting
IPG Spacer Dimensions (W x H)	0.6 x 20cm	Unit Dimensions (W x D x H) Weight	30x18x27cm 2.5Kg

### Maxi Z Vertical System for 20x20cm gels

Catalogue Number	Description
EL2100Z	Maxi Z, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2 combs, cooling coil, dummy plate and Casting Base
EL2102Z	Maxi Z, 20 x 20cm Dual, 2 sets of Glass Plates, 1mm thick bonded Spacers, 2 combs, cooling coil, dummy plate; includes caster and External casting upstand
EL2120Z	Maxi Z, 20 x 20cm Dual vertical system with Glass plates, 2 combs, cooling coil (No casting Base)
EL2110Z	20 x 20cm Dual Casting Base
EL2179Z	IEF conversion kit for 18cm IPG strips and tube gels
EL2177Z	Pair notched 20 x 20cm glass plates with 6mm wide spacers to run IEF strips