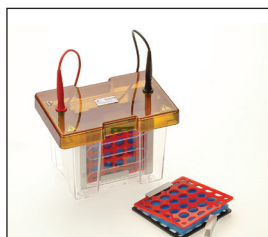
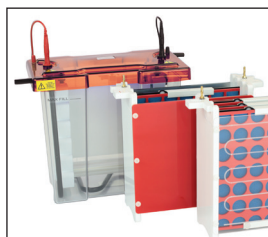


## Clarit-E® Electroblotting Units

- Ideal for Western blotting of proteins
- Open design, rigid cassettes for maximum current transfer

These stand-alone, complete units for electroblotting, Mini, Mini Wide and Maxi formats, include Clarit-E tank and lid, electroblotting insert, cassettes and fibre pads. Units are interchangeable with Clarit-E slab and tube gel inserts. Hinged rigid cassettes allow rapid set up and convenience and ensure even contact between the gel and membrane is maintained.



### Technical Specifications

Unit dimensions (W x D x H)	Mini	Mini Wide	Maxi
	19 x 13 x 15cm	26 x 16 x 16cm	26 x 16 x 28cm
Max. sample capacity	Mini	Slab 80 samples, 20 samples/gel, Tube - 10 tubes; Blot - 3 blots	
	Mini Wide	Slab 192 samples, 48 samples/gel, Tube - 10 tubes; Blot - 3 blots	
	Maxi	Slab 192 samples, 48 samples/gel, Tube - 10 tubes; Blot - 3 blots	
Buffer volume	Mini	Min 250ml; Max 1200ml	
	Mini Wide	Min 600ml; Max 2800ml	
	Maxi	Min 1200ml; Max 5600ml	

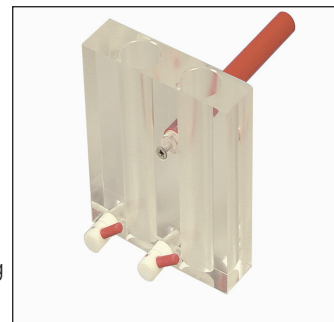
### 2-D and Electroblotting Modular Systems

Mini	Mini Wide	Maxi	Description
EL2200	EL2250	EL2300Z	Complete Electrophoresis System includes tube gel, blotting and vertical system
EL2320	EL2330	EL2340Z	Complete 2-D Electrophoresis includes tube and vertical system
EL2026	EL2096	-	Tube Gel Unit, with capillary tubes, blanking ports and cooling pack
EL2028	EL2098	EL2128Z	Tube Gel Insert includes glass tubes and blanking ports
EL2030	EL2030	EL2130	Capillary Tubes 1mm diameter
EL2356	EL2356	EL2132	Capillary Tubes 1.5mm diameter
EL2032	EL2032	EL2032	Capillary Blanking Ports
EL2400	EL2450	EL2500Z	Complete Blotting System includes vertical system and electroblotting
EL2402	EL2452	EL2502	Blotting System includes tank, 4 cassettes fibre pads and cooling pack
EL2404	-	-	Gel Tank and Blotting unit
EL2034	EL2114	EL2134	Blotting insert including cassettes and fibre pads
EL2036	EL2106	EL2136	Blotting Cassette
EL2038	EL2458	EL2138	Fibre Pads
EL2400-HI	-	EL2500Z-HI	Complete high intensity blotting system (Vertical system and blotting insert)
EL2034-HI	-	EL2134Z-HI	High-intensity blotting insert inc. cassettes and fibre pads

## Clarit-E® Accessories

### Gradient Mixers

Ideal for Caesium, Sucrose and Gel gradients these Gradient Mixers comprise two chambers – a reservoir and a mixing chamber with an interconnecting valve. A second valve regulates the output flow from the mixing chamber. All mixers have a flat base which allows them to be placed on a magnetic stirrer. A magnetic stirring bar can be placed directly in the mixing chamber to ensure a constant gradient. The support rod allows the mixer to be fixed to a retort stand for extra stability.



### Gradient Mixers

Catalogue Number	Description
EL2600	15ml Gradient Mixer
EL2610	25ml Gradient Mixer
EL2615	50ml Gradient Mixer
EL2620	100ml Gradient Mixer
EL2625	500ml Gradient Mixer

### Plate Racks

These sturdy racks are designed for safe drying and storage of glass plates. The small rack can hold up to 20x 2mm thick plates while the larger rack can accommodate up to 10x 5mm thick glass plates.



### Plate Racks

Catalogue Number	Description
EL2630	Mini Glass Plate Rack for 20 x 2mm plates
EL2640	Large Glass Plate Rack for 10 x 5mm plates

### Gel Staining/Blot Boxes

The ideal accessory for incubating blots or staining gels.

The smallest box has dimensions of 9.1 x 6.6cm and a capacity for 3-5ml of solution and is perfect for incubating cut blot strips.

The next box in the range holds 6-10ml of solution and is appropriate for mini gels and blots up to 11.7 x 8.9cm.

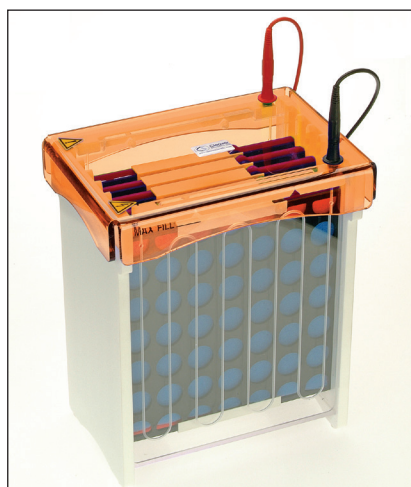
Two larger boxes, available in single packs, can be used for staining gels or incubating blots up to 12 x 12cm or 20 x 16.5cm respectively.

### Blot boxes

Catalogue Number	Description	Pack Size
EL9082	Gel/Blot box 9.1 x 6.6cm	10
EL9084	Gel/Blot box 11.7 x 8.9cm	10
EL9086	Gel/Blot box 12 x 12cm	Each
EL9088	Gel/Blot box 20 x 16.5cm	Each

## Clarit-E Tank Sub Electroblotters

- Ideal for wet electroblotting of proteins – Western blotting
- Up to five gel blot cassettes utilised at any one time
- Hinged cassettes for added convenience
- Accommodates gel thicknesses from 0.25 up to 3mm



Tank Sub Electroblotters offer a combination of increased capacity with money saving features. Both units, Mini 10 x 10cm and Maxi 20 x 20cm, have increased capacity over standard systems. This is especially useful in high throughput laboratories.

A uniform electric field is provided by a high intensity coiled electrode and ensures uniform transfer across the blot surface. The cassette's open architecture ensures the maximum blot area allows direct transfer of current. Its rigid construction ensures contact between the gel and membrane is retained throughout the blot and an even pressure is maintained. These units are compatible with magnetic stirrers to aid heat dispersal and prevent pH drifts in the buffer due to incomplete buffer mixing. Each system includes a cooling pack to further enhance transfer efficiency by removing excess heat. This also saves on buffer for added economy.

### Technical Specifications

Unit dimensions (W x D x H)	Mini	Maxi
	19 x 13 x 19cm	24 x 16 x 26cm
Max. sample capacity	Mini 5 Blots, 10 x 10cm	Maxi 5 Blots, 20 x 20cm 20 Blots, 10 x 10cm
Buffer volume	Mini Min 1400ml; Max 1500ml	Maxi Min 4300ml; Max 6000ml

### Tank Sub Electroblotters

Catalogue Number	Description
EL2412	Electro Blot Mini, 10 x 10cm System for five cassettes, with tank and lid, 5x Cassettes, 12x fibre pads and cooling pack
EL2512	Electro Blot Maxi, 20 x 20cm System for five cassettes, with tank and lid, 5x cassettes, 12x fibre pads and cooling pack
EL2036	Tank Blot Mini Cassette
EL2038	Fibre Pads - pack of 6 for Vertical Mini
EL2136	Tank Blot Maxi Cassette
EL2138	Fibre Pads - pack of 6 for Vertical Maxi

## Clarit-E Semi-Dry Electroblotters



- Rapid transfer times
- Western, Southern and Northern Blots
- Economic Transfers due to very low buffer volumes
- Screw down lid – Gels from 0.25 up to 10mm thick can be blotted

These Semi-Dry Blotters offer rapid transfer times for DNA, RNA and protein blotting - typically 15 to 30 minutes. All units can be used for all types of blotting via uncomplicated set up procedures. Each unit is compatible with their respective Clarit-E vertical gel system. The electrodes, comprising platinum coated anode and stainless steel cathode, will exhibit practically no corrosion and so provide many years of trouble-free use. Uniform heat dispersion across the blot sandwich ensures stable transfer times and no heat induced sample loss or transfer distortions. The two larger format systems are translucent, enabling viewing of the blot sandwich to ensure correct positioning and transfer is occurring. Electrode plates are fully separated to prevent arching or damage.

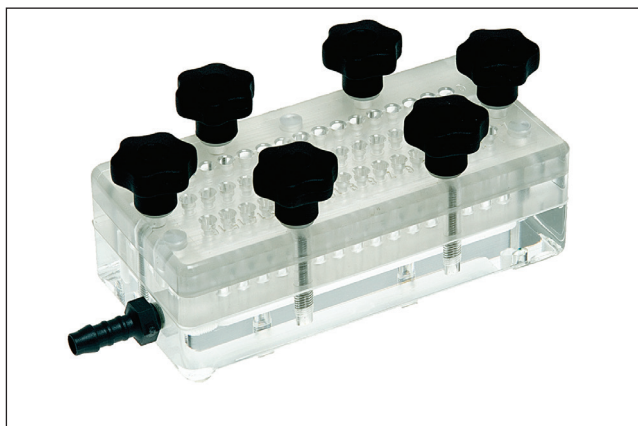
### Technical Specifications

Unit dimensions (W x L x H)	Mini	Maxi
	16 x 16 x 7cm	26 x 26 x 7cm
Max. sample capacity	Mini 1 Blot, 10 x 10cm	Maxi 1 Blot, 20 x 20cm 4 Blots, 10 x 10cm
Buffer volume	Mini 5ml	Maxi 20ml

### Semi Dry Electroblotters

Catalogue Number	Description
EL2460	Semi Dry Mini Blotter 10 x 10cm system
EL2465	Semi Dry Maxi Blotter 20 x 20cm system

## Clarit-E® Dot and Slot Blotters

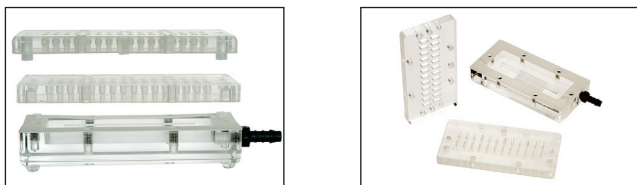


- Low cost
- Simple construction
- Easy assembly
- Alphanumeric sample identification

Four different sample number size and styles of Hybridisation Manifold are offered: 48- or 96-Well dot blotter and 24 or 48-Well slot blotters.

Typical applications include clone screening with DNA/RNA probes in Southern/Northern blots and immunological screening with antibodies in western blots.

The units incorporate precision lapped surfaces to ensure uniform blotting membrane contact and a leak-proof gasket. These prevent lateral transfer of samples – smudging – by ensuring that a complete vacuum is formed. Six thumbscrews ensure even and tight sealing for fast sample suck down.



Technical Specifications				
Model	EL2448	EL2496	EL2524	EL2548
Configuration	3 x 16	8 x 12	2 x 12	3 x 16
Size of Well	6mm dia. 12mm deep	6mm dia. 12mm deep	6 x 0.5mm 12mm deep	6 x 0.5mm 12mm deep
Vacuum required	600mg Hg 0.8 BAR with cold trap			
Unit dimensions (W x L x H)	60 x 95 x 100cm	60 x 105 x 140cm	60 x 74 x 83cm	60 x 95 x 100cm
Membrane sizes required	12.1 x 4.4cm	11 x 7.4cm	12.1 x 4.4cm	12.1 x 4.4cm

Dot and Slot Blotters	
Catalogue Number	Description
EL2448	Dot Blotter 48 sample
EL2496	Dot Blotter 96 sample
EL2524	Slot Blotter 24 sample
EL2548	Slot Blotter 48 sample

## Clarit-E® Gel Drying

### Dryer

With a drying area of 21 x 31cm, the Midi gel dryer can dry six 10 x 10cm gels or a single larger gel. The Maxi Gel Dryer with a 35 x 45cm drying area can dry twelve 10 x 10cm mini gels simultaneously. The unit's microprocessor controls temperature and time, each parameter being displayed on its own LED display. The gels are heated from the base plate while the vacuum removes the moisture from below to dry the gel homogeneously. These dryers feature optimal sealing using a silicone rubber cover and supporting mask.



Technical Specifications	
<b>Dryers -</b>	
Temperature Increment	0.1C
Temperature Calibration	Yes
Temperature Uniformity	0.2C
Timer	1-999 mins
Drying area	Midi 21 x 31cm, Maxi 35 x 45cm
Operating Temp. Range	Ambient to 90C
Dimension (W x L x H)	Midi 30 x 36 x 8cm, Maxi 44 x 50 x 8cm
<b>Pump -</b>	
Condenser vapour capacity	1.5L
Dimensions (W x L x H)	35.5 x 28.5 x 39cm

### GelMaster™ Vacuum Pump

- Two pumps in one – vapour trap and high efficiency diaphragm pump
- Environmentally friendly – traps and contains vapours



The room temperature vapour trap acts as a pump by condensing the hot vapours from the gel dryer and trapping them from the rest of the systems. The high efficiency diaphragm pump, delivers a powerful, non-fluctuating vacuum for fast, smooth drying. GelMaster™ is so efficient it can be connected to 3 gel dryers simultaneously. 10-15 gels can be dried before the trap needs to be drained. The GelMaster™ trapping medium can be used repeatedly.

Gel Drying	
Catalogue Number	Description
EL8800	Midi Gel Dryer 220V, 21 x 31cm
EL8810	Maxi Gel Dryer 220V, 35 x 45cm
EL8815	Gelmaster Vacuum Pump
EL8830	Cellophane sheets for gel drying (30 x 30cm) - pack of 100
EL8835	Cellophane sheets for gel drying (35 x 45cm) - pack of 100

## Clarit-E<sup>®</sup> Maxi and Midi Power Supplies



These 3 models of power supply cater for a wide range of applications. All 3 models have 5 output pairs, and can have voltage, current or power set as the constant parameter. Loaded with pre-set programmes for instant start up, or create and save your own protocols with up to 6 steps per programme. A 2.4" TFT-LCD Screen displays the current running parameters and allows the user to browse pre-set and saved protocols.

The convenient pause/resume key allows any run to be temporarily halted for inspection of the gel and restarted from the same position. A run time extendable to a maximum 999 minutes in constant mode is also useful for overnight transfers undertaken at constant low current in wire electrode systems.

### Midi300

The Midi300 is a versatile multi-function power supply suitable for a wide range of electrophoresis applications. At 300V, 700mA and 150W the Midi300 has nearly twice the current and power of the market leading equivalent unit. Perfectly suited for use with the Clarit-E range of horizontal electrophoresis systems and Clarit-E Mini vertical electrophoresis systems.

### Maxi500

With a maximum 500V, 800mA and 300W voltage, current and power output, the Maxi500 is an excellent general-purpose power supply that fits the broadest range of electrophoresis applications. Perfect for techniques that benefit from subtle and gradual stepwise changes in the electrical parameters as the run progresses, such as DGGE and large format vertical PAGE using Clarit-E Maxi Z electrophoresis systems.

### Maxi3AMP

At 300V, 3000mA, 300W, the Maxi3AMP is designed for virtually all high current electrophoresis applications. The Maxi3AMP's higher current output capability is perfect for electroblotting units with high-intensity plate electrodes, particularly Clarit-E Maxi Z blotting system, Maxi Z vertical electrophoresis and semi dry blotting systems. Electrotransfers may be performed as timed runs in constant or programmable mode to prevent overheating and buffer depletion.

#### Technical Specifications

	EL2732	EL2742	EL2752
	Midi300	Maxi500	Maxi3Amp
<b>Output Voltage / Inc.</b>	5-300V / 1V	5-500V / 1V	5-300V / 1V
<b>Output Current / Inc.</b>	1-700mA / 1mA	1-800mA / 1mA	1-3000mA / 1mA
<b>Output Power / Inc.</b>	150W / 1W	300W / 1W	300W / 1W
<b>Output Type</b>	Constant Voltage ; Current ; Power		
<b>Output Pairs</b>	5 pairs for multiple gel tanks		
<b>Display</b>	2.4" TFT-LCD		
<b>Program</b>	Pre-setting; Up to 6-step, 30 programmed files		
<b>Timer</b>	Constant mode: 9999 (min) with alarm Programmable mode: 999 (min) with alarm		
<b>Rated voltage</b>	100-240V		

#### Maxi Power Supplies

Catalogue Number	Description	Application
EL2732	Midi300 Power Supply, 300V, 700mA, 150W	Routine horizontal electrophoresis using Clarit-E Mini, Midi and Choice Vertical Electrophoresis using Clarit-E Vertical Mini
EL2742	Maxi500 Power Supply, 500V, 800mA, 300W	Routine horizontal electrophoresis using Clarit-E Mini, Midi and Choice Vertical Electrophoresis using Clarit-E Vertical Mini Clarit-E DGGE Vertical Electrophoresis using Clarit-E Vertical Maxi Z
EL2752	Maxi3AMP Power Supply, 300V, 3A, 300W	Vertical Electrophoresis using Clarit-E MaxiZ Blotting using MaxiZ blotters and semi-dry blotters

## Clarit-E<sup>®</sup> Mini-300 and Mini-500 Power Supplies



- Enhanced in-built safety features
- Conspicuous 3-digit LED
- Alarm function
- New wipe-clean polycarbonate housing

Superseding the MINI 150V and MINI 300V, the new Mini-300 and Mini-500 power supplies, offer many of the benefits of the MIDI power pack, for the price of a MINI unit. With enhanced features, such as a maximum constant current output of 400mA, and constant voltage up to 300V or 500V. The Mini-300 is capable of running all Clarit-E horizontal electrophoresis systems and vertical mini gel units, either on a continuous run or timed setting of up to 999 minutes.

The Mini-500 is also suitable to run the Mini Wide and Maxi Vertical units.

The user-friendly interface of the Mini-300 and 500 means adjustment in 1V and 1mA increments is easy, making it perfect for separations where precise settings are required.

Both Mini units have two pairs of parallel power terminals, which can run two electrophoresis units simultaneously, and combined with their ultra-compact size, can save time and bench space. A dual voltage rating ensures full portability, and allows easy transportation between laboratories irrespective of their geographical location.

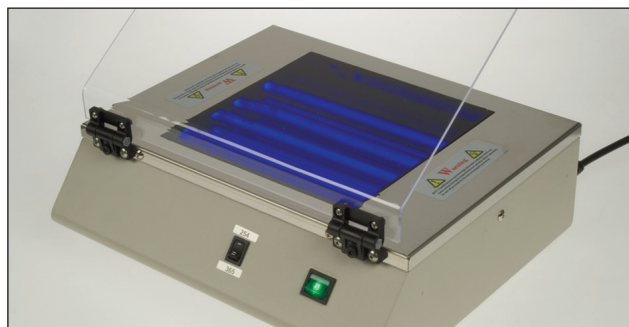
### Technical Specifications

Mini	EL2705	EL2707
<b>Voltage</b>	10-300V	10-500V
<b>Current</b>	10-400mA	10-400mA
<b>Max. Power</b>	60W	120W

### Mini-300 & Mini-500 Power Supplies and Accessories

Catalogue Number	Description	Pack Size
EL2705	Mini-300 Power supply, 300V, 400A, 60W	Each
EL2707	Mini-500 Power supply, 500V, 400mA, 120W	Each
EL2701	Power supply adapters, 4mm to 4mm	2
EL2702	Power supply adapters, 4mm to 2mm	2
EL2703	Power supply adapters, 2mm to 4mm	2

## Clarit-E<sup>®</sup> Transilluminators



- Three wavelength options for added flexibility and convenience: 254/312/365nm
- Two dual-wavelength models
- Long life filter in two size options
- High efficiency reflector
- Hi/Lo intensity switch
- Fast start up

Available in single and dual wavelength formats, in 21 x 21cm and 21x26cm sizes, our transilluminators are supplied either as stand-alone units or with the gel documentation system, as part of a fully integrated system. With a large surface area, each transilluminator serves as the perfect workstation for viewing and working with fluorescently-stained protein and nucleic acid gels.

Standard features include a high/low intensity safety switch and an efficient starter that allows each of the six 8 Watt UV tubes to energise quickly without flickering, prolonging the working life of the UV tubes. Special filter glass minimises unwanted background light. All of these features maximise contrast and sensitivity, allowing even the faintest fluorescent gels to be viewed. Two dual-wavelength models offer added flexibility and convenience.

### Technical Specifications

	Small	Large
<b>Filter size</b>	21 x 21cm	26 x 21cm
<b>Light source</b>	8W x 6 tubes	8W x 6 tubes
<b>UV resistant plastic cover (W x D)</b>	33 x 25cm	33 x 25cm
<b>Unit dimensions (W x L x H)</b>	34 x 29.5 x 10cm	34 x 29.5 x 10cm

### Transilluminators

Catalogue Number	Description
EL4150	UV Transilluminator small, 21 x 21cm, 254nm
EL4160	UV Transilluminator small, 21 x 21cm, 312nm
EL4170	UV Transilluminator small, 21 x 21cm, 365nm
EL4200	UV Transilluminator small, 21 x 21cm, 254/365nm
EL4210	UV Transilluminator small, 21 x 21cm, 254/312nm
EL4230	UV Transilluminator large, 26 x 21cm, 254nm
EL4240	UV Transilluminator large, 26 x 21cm, 312nm
EL4250	UV Transilluminator large, 26 x 21cm, 365nm
EL4260	UV Transilluminator large, 26 x 21cm, 254/365nm
EL4270	UV Transilluminator large, 26 x 21cm, 254/312nm