

TECHNICALLY ENHANCED

ELECTROPHORESIS

SYSTEMS

- horizontal gel systems
- vertical slab gel systems
- 2-D electrophoresis systems
- blotting options
- power supplies
- gel drying
- gel documentation



 **Cleaver**
Scientific Ltd

www.cleaverscientific.com

multiSUB™....

- **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 buffer chamber
- **Multiple Gel Trays** - eliminate the need for additional gel tanks
- **Easy Click Lid Removal**



"PLUG AND GO" GEL CASTING



Casting dams allow gels to be rapidly cast externally while the MultiSub™ unit is in use for gel running



NEW-style 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

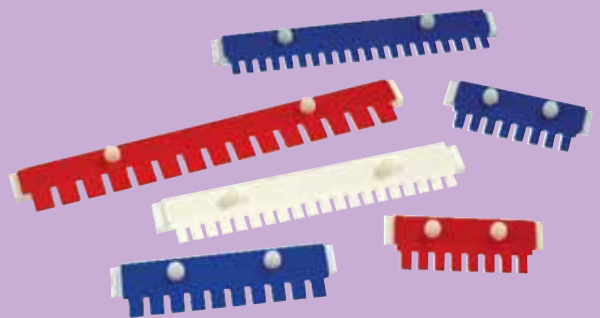
White PVC platform cover and red loading guides can be optionally applied to enhance well visibility



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

EXTENSIVE RANGE OF COMBS

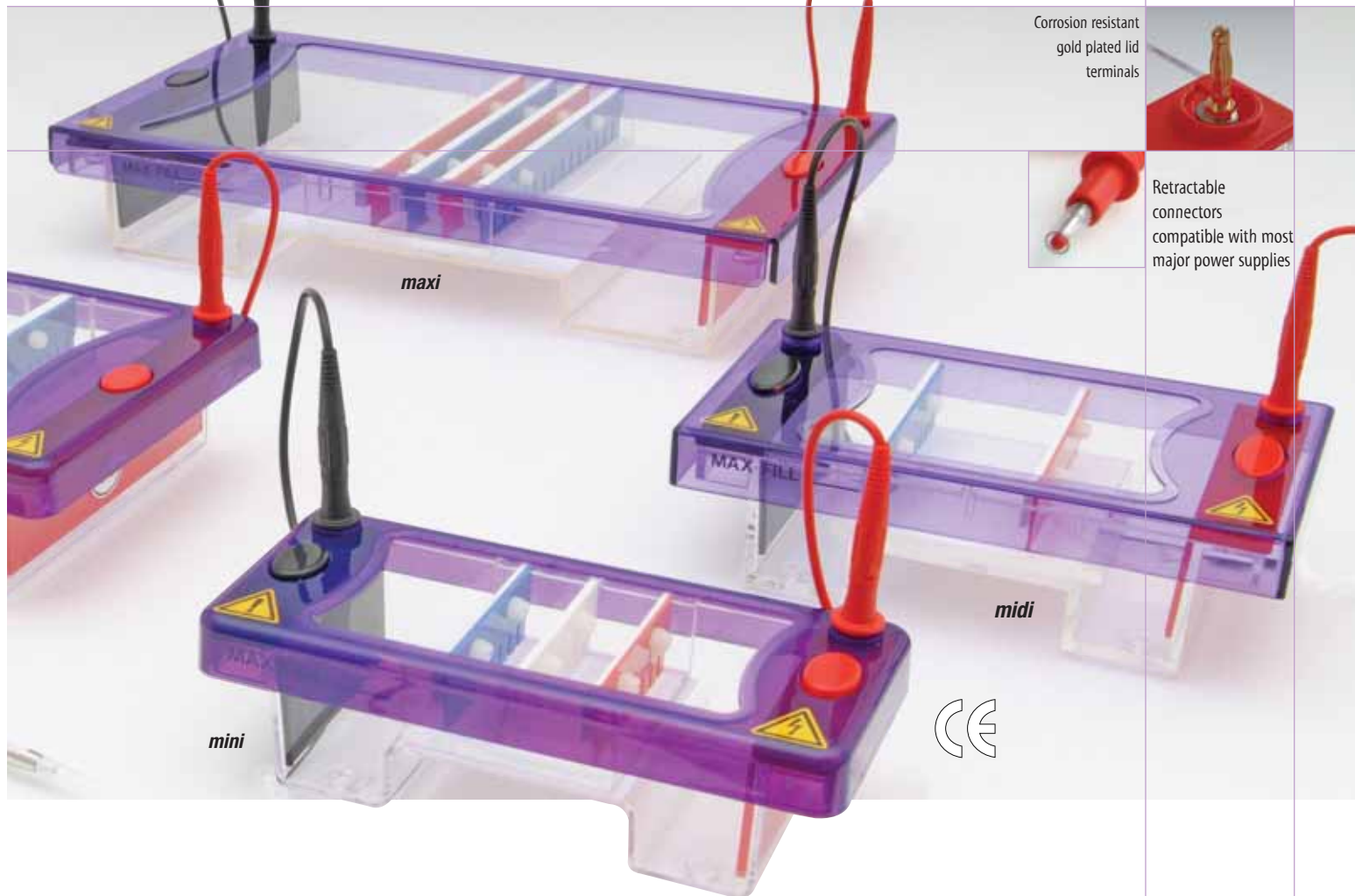


- four thicknesses, colour coded
 - black:** 0.75mm for ultra resolved bands
 - white:** 1mm supplied as standard
 - red:** 1.5mm for maximising sample volume
 - blue:** 2mm for maximising sample volume
- options for Sample Prep
- options for MULTI-CHANNEL PIPETTE COMPATIBLE



The number of samples can be maximised using high tooth number combs

SETTING A NEW STANDARD IN HORIZONTAL ELECTROPHORESIS



Corrosion resistant
gold plated lid
terminals



Retractable
connectors
compatible with most
major power supplies

The multiSUB series of Horizontal Gel Units offers the most versatile solution for DNA and RNA agarose gel electrophoresis currently available. All five units offer an unsurpassed combination of economy of gel and buffer volume, with gel size and sample number versatility. Gel size and sample number requirements can be exactly matched in each unit, with the option of additional gel tray sizes. This eliminates the need for multiple gel tanks for changes in gel size or application.

All units contain removable UV transparent trays. For optimum value and versatility, 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 multiSUB unit is in use for gel running. With no indentations or casting gate grooves in the tray to interfere with sample progression, 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.



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

multiSUB mini

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

Typical Applications

Designed for quick checks of low to medium numbers of samples



Buffer saver blocks physically reduce the volume of a gel chamber and so reduce buffer requirements, saving cost.

The multiSUB Mini is the smallest unit in the range, designed for low to medium numbers of samples. The small gel size maximises run economy but does not compromise versatility as two tray options are available – 7 x 7cm and 7 x 10cm, and combs ranging from preparative up to 16 samples. Simply by altering the gel tray or comb, this compact unit is capable of resolving up to 64 different samples, prepping 1ml of sample or separating sample bands over a distance of 9cm.



components of multiSUB Mini Duo

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 capacity	7 x 7cm tray – 32 samples 7 x 10cm tray – 64 samples
Buffer volume	225ml
Combs available:	
No. of samples	1, 2, 4, 8MC, 8, 10, 12MC, 16
Thicknesses	0.75, 1, 1.5, 2mm

Ordering Information

MSMINI7	multiSUB Mini, 7 x 7cm UV Tray, 2 x 8 sample combs, loading guides and dams				
MSMINI10	multiSUB Mini, 7 x 10cm UV Tray, 2 x 8 sample combs, loading guides and dams				
MSMINIDUO	multiSUB Mini, 7 x 7cm & 7 x 10cm UV Tray, 2 x 8 sample combs, loading guides and dams				
MS7-UV7	7 x 7cm UV Tray	MS7-LG	Adhesive Loading Guides	MS7-x -yLG	Combination Comb and Loading Guide
MS7-UV10	7 x 10cm UV Tray	MS7-WP	Viewing Platform		
MS7-PE	Positive Electrode	MSMINICP	Cool-pack and Platform		x = comb well no.
MS7-NE	Negative Electrode	MSMINIBSB	Buffer Saver Blocks, pk/2		y = comb thickness
MS7-UVDAM	Casting Dams		saves 100ml of buffer	MS7-UVS	7cm UV Gel Scoop
MS7/10-FC	multiSUB Mini/Midi Flexi caster				

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
MS7-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	152µl	MS7-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	304µl
MS7-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	68µl	MS7-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	135µl
MS7-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	36µl	MS7-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	72µl
MS7-8MC-0.75	Comb 8 sample MC, 0.75mm thick	8µl	MS7-8MC-1.5	Comb 8 sample MC, 1.5mm thick	17µl
MS7-8-0.75	Comb 8 sample, 0.75mm thick	19µl	MS7-8-1.5	Comb 8 sample, 1.5mm thick	37µl
MS7-10-0.75	Comb 10 sample, 0.75mm thick	14µl	MS7-10-1.5	Comb 10 sample, 1.5mm thick	27µl
MS7-12MC-0.75	Comb 12 sample MC, 0.75mm thick	10µl	MS7-12MC-1.5	Comb 12 sample MC, 1.5mm thick	20µl
MS7-16-0.75	Comb 16 sample, 0.75mm thick	7µl	MS7-16-1.5	Comb 16 sample, 1.5mm thick	15µl
MS7-1-1	Comb Prep 1, Marker 1, 1mm thick	203µl	MS7-1-2	Comb Prep 1, Marker 1, 2mm thick	405µl
MS7-2-1	Comb Prep 2, Marker 2, 1mm thick	90µl	MS7-2-2	Comb Prep 2, Marker 2, 2mm thick	180µl
MS7-4-1	Comb Prep 4, Marker 2, 1mm thick	48µl	MS7-4-2	Comb Prep 4, Marker 2, 2mm thick	96µl
MS7-8MC-1	Comb 8 sample MC, 1mm thick	11µl	MS7-8MC-2	Comb 8 sample MC, 2mm thick	23µl
MS7-8-1	Comb 8 sample, 1mm thick	25µl	MS7-8-2	Comb 8 sample, 2mm thick	50µl
MS7-10-1	Comb 10 sample, 1mm thick	18µl	MS7-10-2	Comb 10 sample, 2mm thick	36µl
MS7-12MC-1	Comb 12 sample MC, 1mm thick	14µl	MS7-12MC-2	Comb 12 sample MC, 2mm thick	27µl
MS7-16-1	Comb 16 sample, 1mm thick	10µl	MS7-16-2	Comb 16 sample, 2mm thick	20µl

MC = multichannel pipette compatible

multiSUB midi



- 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

Ideal for quick checks of samples from PCR and cloning

Typical Applications



Loading guides allow easy well identification and sample loading



Scoops for safe transfer of gels



for Power Supplies and Product Selector see page 24/25

With gel tray options of 10 x 7cm and 10 x 10cm, the multiSUB Midi has been designed for routine horizontal gel electrophoresis. Extending only the width of this unit allows more samples to be resolved per gel than the multiSUB Mini without a significant increase in buffer or gel volumes.

A maximum of 100 samples per gel can be resolved making this unit ideal for those routinely checking medium numbers of samples over short to medium gel run lengths.

ORDERING INFORMATION

MSMIDI7	multiSUB Midi, 10 x 7cm UV Tray, 2 x 16 sample combs, loading guides and dams			
MSMIDI10	multiSUB Midi, 10 x 10cm UV Tray, 2 x 16 sample combs, loading guides and dams			
MSMIDI10DUO	multiSUB Midi, 10 x 7cm & 10 x 10cm UV Tray, 2 x 16 sample combs, loading guides and dams			
MS10-UV7	10 x 7cm UV Tray	MS10-LG	Adhesive Loading Guides	MS10-x -yLG Combination Comb and
MS10-UV10	10 x 10cm UV Tray	MS10-WP	Viewing Platform	Loading Guide
MS10-PE	Positive Electrode	MSMIDICP	Cool-Pack and Platform	x = comb well number,
MS10-NE	Negative Electrode	MSMIDIBSB	Buffer Saver Blocks, pk/2	y = comb thickness
MS10-UVDAM	Casting Dams		saves 100ml of buffer	MS10-UVS 10cm UV Gel Scoop
MS7/10-FC	multiSUB Mini/Midi Flexicaster			

TECHNICAL SPECIFICATIONS

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

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
MS10-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	270µl	MS10-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	540µl
MS10-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	118µl	MS10-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	236µl
MS10-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	57µl	MS10-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	115µl
MS10-8-0.75	Comb 8 sample, 0.75mm thick	30µl	MS10-8-1.5	Comb 8 sample, 1.5mm thick	61µl
MS10-10MC-0.75	Comb 10 sample MC, 0.75mm thick	20µl	MS10-10MC-1.5	Comb 10 sample MC, 1.5mm thick	41µl
MS10-12-0.75	Comb 12 sample, 0.75mm thick	17µl	MS10-12-1.5	Comb 12 sample, 1.5mm thick	34µl
MS10-16-0.75	Comb 16 sample, 0.75mm thick	12µl	MS10-16-1.5	Comb 16 sample, 1.5mm thick	24µl
MS10-20MC-0.75	Comb 20 sample MC, 0.75mm thick	10µl	MS10-20MC-1.5	Comb 20 sample MC, 1.5mm thick	20µl
MS10-25-0.75	Comb 25 sample, 0.75mm thick	7µl	MS10-25-1.5	Comb 25 sample, 1.5mm thick	15µl
MS10-1-1	Comb Prep 1, Marker 1, 1mm thick	360µl	MS10-1-2	Comb Prep 1, Marker 1, 2mm thick	720µl
MS10-2-1	Comb Prep 2, Marker 2, 1mm thick	158µl	MS10-2-2	Comb Prep 2, Marker 2, 2mm thick	315µl
MS10-4-1	Comb Prep 4, Marker 2, 1mm thick	77µl	MS10-4-2	Comb Prep 4, Marker 2, 2mm thick	153µl
MS10-8-1	Comb 8 sample, 1mm thick	41µl	MS10-8-2	Comb 8 sample, 2mm thick	81µl
MS10-10MC-1	Comb 10 sample MC, 1mm thick	27µl	MS10-10MC-2	Comb 10 sample MC, 2mm thick	54µl
MS10-12-1	Comb 12 sample, 1mm thick	23µl	MS10-12-2	Comb 12 sample, 2mm thick	45µl
MS10-16-1	Comb 16 sample, 1mm thick	16µl	MS10-16-2	Comb 16 sample, 2mm thick	32µl
MS10-20MC-1	Comb 20 sample MC, 1mm thick	14µl	MS10-20MC-2	Comb 20 sample MC, 2mm thick	27µl
MS10-25-1	Comb 25 sample, 1mm thick	10µl	MS10-25-2	Comb 25 sample, 2mm thick	20µl

MC = multichannel pipette compatible

multiSUB choice

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

Typical Applications

Ideal for restriction fragment analysis, sample prep or checking of high numbers of samples



multiSUB Choice Trio includes all 3 tray sizes for optimum versatility and value

The multiSUB Choice offers a wide degree of versatility. Three tray options are available - 15 x 7cm, 15 x 10cm and 15 x 15cm - allowing the choice of one, two or all three gel length options at the time of purchase. Further purchases of additional accessories are no longer required. Maximising comb and tray options allow up to 210 samples to be resolved per gel. The 15cm total run length allows restriction fragment or other close MW sample bands to be easily separated and identified. Speed loading is accomplished using 10, 14, 16, 18, 28 and 30 sample multi-channel pipette compatible combs.

Technical Specifications

Gel dimensions, (W x L)	15 x 7cm 15 x 10cm 15 x 15cm
Unit dimensions	26.5 x 17.5 x 9cm (W x L x H)
Max. sample	15 x 7cm tray – 70 samples 15 x 10cm tray – 140 samples 15 x 15cm tray – 210 samples
Buffer volume	500ml
Combs available : No. of samples	1, 2, 4, 10, 10MC, 12, 14MC, 16, 18MC, 20, 28MC, 30MC, 35
Thicknesses	0.75, 1, 1.5, 2mm

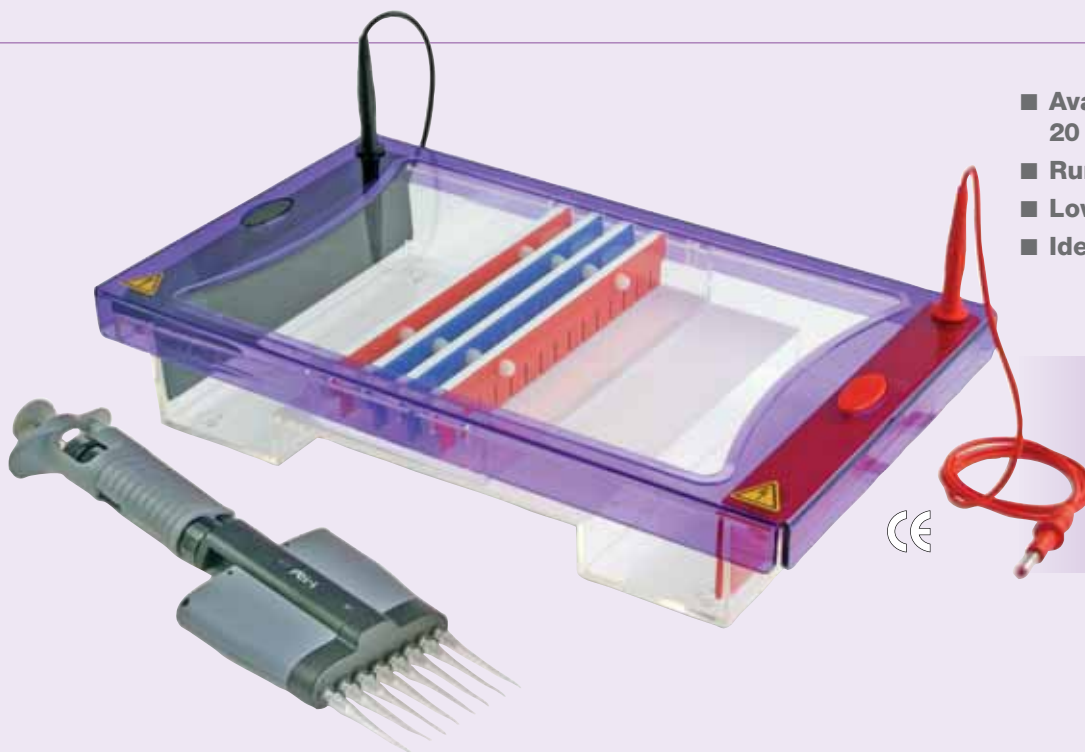
Ordering Information

MSCHOICE7	multiSUB Choice, 15 x 7cm UV Tray, 2 x 20 sample combs, loading guides and dams		
MSCHOICE10	multiSUB Choice, 15 x 10cm UV Tray, 2 x 20 sample combs, loading guides and dams		
MSCHOICE15	multiSUB Choice, 15 x 15cm UV Tray, 2 x 20 sample combs, loading guides and dams		
MSCHOICETRIO	multiSUB Choice Trio, 15 x 7,10 & 15cm UV Tray, 2 x 20 sample combs, loading guides and dams		
MS15-UV7	15 x 7cm UV Tray	MS15-NE	Negative Electrode
MS15-UV10	15 x 10cm UV Tray	MS15-LG	Adhesive Loading Guides
MS15-UV15	15 x 15cm UV Tray	MS15-WP	Viewing Platform
MS15-UVDAM	Casting Dams	MS15-UVS	15cm UV Gel Scoop
MS15-PE	Positive Electrode	MSCHOICECP	Cool-Pack and Platform
MS15/20-FC	multiSUB Choice/Maxi Flexi caster	MS15-x -yLG	Combi Comb and Loading Guide, x = comb well no., y = comb thickness
		MSCHOICEBSB	Buffer Saver Blocks pk/2, saves 190ml of buffer

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
MS15-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	371µl	MS15-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	743µl
MS15-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	169µl	MS15-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	338µl
MS15-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	91µl	MS15-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	182µl
MS15-10-0.75	Comb 10 sample, 0.75mm thick	34µl	MS15-10-1.5	Comb 10 sample, 1.5mm thick	68µl
MS15-12-0.75	Comb 12 sample, 0.75mm thick	30µl	MS15-12-1.5	Comb 12 sample, 1.5mm thick	61µl
MS15-20-0.75	Comb 20 sample, 0.75mm thick	16µl	MS15-20-1.5	Comb 20 sample, 1.5mm thick	32µl
MS15-35-0.75	Comb 35 sample, 0.75mm thick	7µl	MS15-35-1.5	Comb 35 sample, 1.5mm thick	15µl
MS15-10MC-0.75	Comb 10 sample MC, 0.75mm thick	22µl	MS15-10MC-1.5	Comb 10 sample MC, 1.5mm thick	44µl
MS15-14MC-0.75	Comb 14 sample MC, 0.75mm thick	22µl	MS15-14MC-1.5	Comb 14 sample MC, 1.5mm thick	44µl
MS15-16MC-0.75	Comb 16 sample MC, 0.75mm thick	20µl	MS15-16MC-1.5	Comb 16 sample MC, 1.5mm thick	41µl
MS15-18MC-0.75	Comb 18 sample MC, 0.75mm thick	8µl	MS15-18MC-1.5	Comb 18 sample MC, 1.5mm thick	17µl
MS15-28MC-0.75	Comb 28 sample MC, 0.75mm thick	8µl	MS15-28MC-1.5	Comb 28 sample MC, 1.5mm thick	17µl
MS15-30MC-0.75	Comb 30 sample MC, 0.75mm thick	9µl	MS15-30MC-1.5	Comb 30 sample MC, 1.5mm thick	19µl
MS15-1-1	Comb Prep 1, Marker 1, 1mm thick	495µl	MS15-1-2	Comb Prep 1, Marker 1, 2mm thick	990µl
MS15-2-1	Comb Prep 2, Marker 2, 1mm thick	225µl	MS15-2-2	Comb Prep 2, Marker 2, 2mm thick	450µl
MS15-4-1	Comb Prep 4, Marker 2, 1mm thick	122µl	MS15-4-2	Comb Prep 4, Marker 2, 2mm thick	243µl
MS15-10-1	Comb 10 sample, 1mm thick	45µl	MS15-10-2	Comb 10 sample, 2mm thick	90µl
MS15-12-1	Comb 12 sample, 1mm thick	41µl	MS15-12-2	Comb 12 sample, 2mm thick	81µl
MS15-20-1	Comb 20 sample, 1mm thick	21µl	MS15-20-2	Comb 20 sample, 2mm thick	43µl
MS15-35-1	Comb 35 sample, 1mm thick	10µl	MS15-35-2	Comb 35 sample, 2mm thick	20µl
MS15-10MC-1	Comb 10 sample MC, 1mm thick	29µl	MS15-10MC-2	Comb 10 sample MC, 2mm thick	59µl
MS15-14MC-1	Comb 14 sample MC, 1mm thick	29µl	MS15-14MC-2	Comb 14 sample MC, 2mm thick	59µl
MS15-16MC-1	Comb 16 sample MC, 1mm thick	27µl	MS15-16MC-2	Comb 16 sample MC, 2mm thick	54µl
MS15-18MC-1	Comb 18 sample MC, 1mm thick	11µl	MS15-18MC-2	Comb 18 sample MC, 2mm thick	23µl
MS15-28MC-1	Comb 28 sample MC, 1mm thick	11µl	MS15-28MC-2	Comb 28 sample MC, 2mm thick	23µl
MS15-30MC-1	Comb 30 sample MC, 1mm thick	13µl	MS15-30MC-2	Comb 30 sample MC, 2mm thick	25µl

MC = multichannel pipette compatible

multiSUB maxi



- 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

Primarily designed for separating high numbers of samples from PCR or cloning

Typical Applications

The multiSUB Maxi is primarily designed for resolution of high numbers of samples such as from Cloning or PCR. The multiSUB 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.

Three tray sizes are available – 20 x 20cm, 20 x 25cm and a half-length 20 x 10cm. Multichannel pipette compatible combs up to 40 sample facilitate speed loading of up to 440 samples per gel. 50 sample combs allow maximum sample capacity of 550 samples per gel.



Casting dams allow gels to be rapidly cast externally while the MultiSub™ unit is in use for gel running

Ordering Information

MSMAXI20	multiSUB Maxi, 20 x 20cm UV Tray, 2 x 20 sample combs, loading guides and dams			
MSMAXI10	multiSUB Maxi, 20 x 10cm UV Tray, 2 x 20 sample combs, loading guides and dams			
MSMAXIDUO	multiSUB Maxi, 20 x 20cm and 20 x 10cm UV Trays, 2 x 20 sample combs, loading guides and dams			
MSMAXI25	multiSUB Maxi, 20 x 25cm UV Tray, 2 x 20 sample combs, loading guides and dams			
MS20-UV10	20 x 10cm UV Tray	MS20-WP	Viewing Platform	MSMAXIBSB Buffer Saver Blocks pk/2, saves 450ml of buffer
MS20-UV20	20 x 20cm UV Tray	MS20-PE	Positive Electrode	
MS20-UV25	20 x 25cm UV Tray	MS20-NE	Negative Electrode	MS20-x -yLG Combi Comb and Loading Guide; x = comb well no., y = comb thickness
MS20-UVDAM	Casting Dams	MS20-UVS	20cm UV Gel Scoop	
MS20-LG	Adhesive Loading Guides	MSMAXICP	Cool-Pack and Platform	
MS15/20-FC	multiSUB Choice/Maxi Flexi caster			

TECHNICAL SPECIFICATIONS

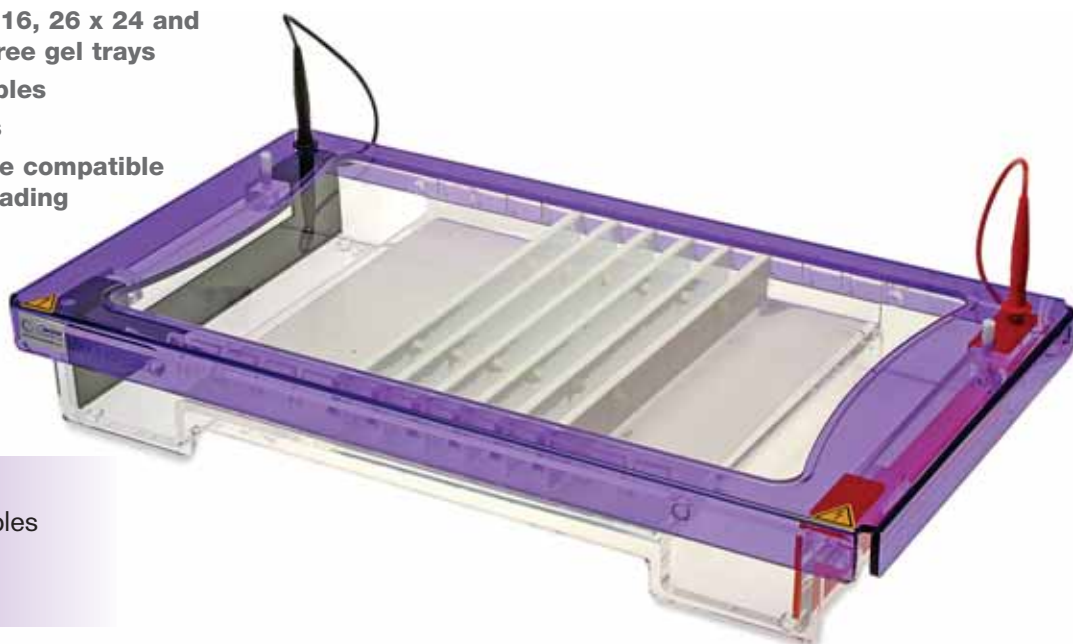
Gel dimensions, (W x L)	20 x 10cm 20 x 20cm
Unit dimensions (W x L x H)	39.5 x 23 x 9cm
Max. sample capacity	20 x 10cm tray – 200 samples 20 x 20cm tray – 450 samples 20 x 25cm tray – 550 samples
Buffer volume	1200ml
Combs available : No. of samples	1, 2, 4, 10, 16, 20MC, 25, 30, 36, 40MC, 50
Thicknesses	0.75, 1, 1.5, 2mm

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
MS20-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	506µl	MS20-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	1013µl
MS20-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	236µl	MS20-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	473µl
MS20-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	115µl	MS20-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	230µl
MS20-10-0.75	Comb 10 sample, 0.75mm thick	54µl	MS20-10-1.5	Comb 10 sample, 1.5mm thick	108µl
MS20-16-0.75	Comb 16 sample, 0.75mm thick	30µl	MS20-16-1.5	Comb 16 sample, 1.5mm thick	61µl
MS20-20MC-0.75	Comb 20 sample MC, 0.75mm thick	20µl	MS20-20MC-1.5	Comb 20 sample MC, 1.5mm thick	41µl
MS20-25-0.75	Comb 25 sample, 0.75mm thick	16µl	MS20-25-1.5	Comb 25 sample, 1.5mm thick	32µl
MS20-30-0.75	Comb 30 sample, 0.75mm thick	13µl	MS20-30-1.5	Comb 30 sample, 1.5mm thick	26µl
MS20-36-0.75	Comb 36 sample, 0.75mm thick	11µl	MS20-36-1.5	Comb 36 sample, 1.5mm thick	22µl
MS20-40MC-0.75	Comb 40 sample MC, 0.75mm thick	8µl	MS20-40MC-1.5	Comb 40 sample MC, 1.5mm thick	17µl
MS20-50-0.75	Comb 50 sample, 0.75mm thick	8µl	MS20-50-1.5	Comb 50 sample, 1.5mm thick	16µl
MS20-1-1	Comb Prep 1, Marker 1, 1mm thick	675µl	MS20-1-2	Comb Prep 1, Marker 1, 2mm thick	1350µl
MS20-2-1	Comb Prep 2, Marker 2, 1mm thick	315µl	MS20-2-2	Comb Prep 2, Marker 2, 2mm thick	630µl
MS20-4-1	Comb Prep 4, Marker 2, 1mm thick	153µl	MS20-4-2	Comb Prep 4, Marker 2, 2mm thick	306µl
MS20-10-1	Comb 10 sample, 1mm thick	72µl	MS20-10-2	Comb 10 sample, 2mm thick	144µl
MS20-16-1	Comb 16 sample, 1mm thick	41µl	MS20-16-2	Comb 16 sample, 2mm thick	81µl
MS20-20MC-1	Comb 20 sample MC, 1mm thick	27µl	MS20-20MC-2	Comb 20 sample MC, 2mm thick	54µl
MS20-25-1	Comb 25 sample, 1mm thick	21µl	MS20-25-2	Comb 25 sample, 2mm thick	42µl
MS20-30-1	Comb 30 sample, 1mm thick	17µl	MS20-30-2	Comb 30 sample, 2mm thick	34µl
MS20-36-1	Comb 36 sample, 1mm thick	14µl	MS20-36-2	Comb 36 sample, 2mm thick	29µl
MS20-40MC-1	Comb 40 sample MC, 1mm thick	11µl	MS20-40MC-2	Comb 40 sample MC, 2mm thick	23µl
MS20-50-1	Comb 50 sample, 1mm thick	10µl	MS20-50-2	Comb 50 sample, 2mm thick	21µl

MC = multichannel pipette compatible

multiSUB 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 Applications

Ideal for checking very large numbers of samples or extended high resolution separations

Designed for rapid screening of very large numbers of Clonal or PCR samples, the multiSUB Screen horizontal gel unit has a 672 maximum sample capacity per gel. This allows loading and analysis of exactly seven 96 well format micro titre plates.

The large gel run length of 32cm also allows resolution of samples over a long distance for separation of complex sample bands such as in restriction fragment analysis.

The unit is available with a full length tray or with other tray length options of 16 or 24cm so that the user's exact requirements can be matched. In addition to options for single length gel trays, multiSUB Screen is available with all three gel tray lengths to provide the maximum in flexibility, versatility and value.

Buffer recirculation ports are included as standard to allow enhanced resolution over extended runs while loading guides enhance well visibility for easy sample loading.

for Power Supplies and Product Selector see pages 24-25



all multiSUB Screen combs are multichannel pipette compatible

TECHNICAL SPECIFICATIONS

Gel dimensions (W x L)	26 x 32cm 26 x 24cm 26 x 16cm
Unit dimensions	50 x 28 x 9cm (L x W x H)
Max sample capacity	26 x 32cm tray – 672 samples 26 x 24cm tray – 504 samples 26 x 16cm tray – 336 samples
Buffer volume	1400ml
Combs available	28MC, 56MC
No. of samples	0.75, 1, 1.5, 2mm
Thicknesses	

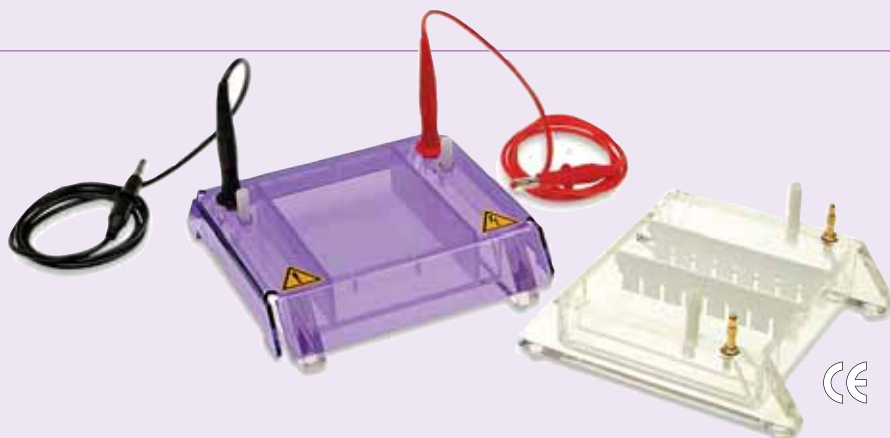
Ordering Information

MSSCREEN32	multiSUB Screen, 26 x 32cm UV Tray, 6 x 28 sample combs, loading guides				
MSSCREEN24	multiSUB Screen, 26 x 24cm UV Tray, 6 x 28 sample combs, loading guides				
MSSCREEN16	multiSUB Screen, 26 x 16cm UV Tray, 6 x 28 sample combs, loading guides				
MSSCREENTRIO	multiSUB Screen, 26 x 16cm, 26 x 24cm, 26 x 32cm UV Trays, 6 x 28 sample combs, loading guides				
MS26-UV32	26 x 32cm UV Tray	MS26-PE	Positive Electrode	MS26-x -yLG	CombiComb and Loading Guide; x = comb well no., y = comb thickness
MS26-UV24	26 x 24cm UV Tray	MS26-NE	Negative Electrode		
MS26-UV16	26 x 16cm UV Tray	MS26-WP	Viewing Platform		
MS26-LG	Adhesive Loading Guides	MSSCRNBSB	Buffer Saver Blocks, pk/2	MSSCRNCP	Cool-Pack and Platform
MS26-UVS	26cm UV Gel Scoop		saves 625ml of buffer		
MS26-FC	Flexicaster for gels up to 32cm. Casts 7, 10, 15, 16, 20, 24 and 32cm long gels				

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
MS26-28MC-0.75	Comb 28 sample MC, 0.75mm thick	25µl	MS26-28MC-1.5	Comb 28 sample MC, 1.5mm thick	51µl
MS26-56MC-0.75	Comb 56 sample MC, 0.75mm thick	10µl	MS26-56MC-1.5	Comb 56 sample MC, 1.5mm thick	20µl
MS26-28MC-1	Comb 28 sample MC, 1mm thick	34µl	MS26-28MC-2	Comb 28 sample MC, 2mm thick	68µl
MS26-56MC-1	Comb 56 sample MC, 1mm thick	14µl	MS26-56MC-2	Comb 56 sample MC, 2mm thick	27µl

MC = multichannel pipette compatible

miniRapide



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

For routine, rapid checking of samples

Typical Applications

The miniRapide is a completely self contained system designed for quick checks of samples. Gel casting, running and analysis are all performed in the same ultra compact unit. Buffer and gel volumes have been kept to a minimum and 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 allow the loading of up to 40 samples per gel while multichannel pipette compatible combs further enhance the speed and convenience.

TECHNICAL SPECIFICATIONS

Gel dimensions, (W x L)	10 x 8cm
Unit dimensions (W x L x H)	15 x 15 x 4cm
Max. sample capacity	40 samples
Buffer volume	50ml
Combs available :	
No. of samples	1, 4, 8, 12, 16, 20
Thicknesses	1, 1.5mm

Ordering Information

FMMS10	miniRapide, 10 x 8cm, 2 x 8 sample combs 1.5mm and casting dams
FMMS-DAM	miniRapide Casting dams, pk/2
RPW0.2	Replacement Platinum Wire 0.2mm – 50cm

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
1-0mm FMMS-1-1	Comb 1 sample, 1 dye, 1mm thick	330µl	1-5mm FMMS-1-1.5	Comb 1 sample, 1 dye, 1.5mm thick	495µl
FMMS-4-1	Comb 4 sample, 1mm thick	90µl	FMMS-4-1.5	Comb 4 sample, 1.5mm thick	135µl
FMMS-8-1	Comb 8 sample, 1mm thick	40µl	FMMS-8-1.5	Comb 8 sample, 1.5mm thick	60µl
FMMS-12-1	Comb 12 sample, 1mm thick	25µl	FMMS-12-1.5	Comb 12 sample, 1.5mm thick	38µl
FMMS-16-1	Comb 16 sample, 1mm thick	15µl	FMMS-16-1.5	Comb 16 sample, 1.5mm thick	23µl
FMMS-20MC-1	Comb 20 sample MC, 1mm thick	10µl	FMMS-20MC-1.5	Comb 20 sample MC, 1.5mm thick	15µl

MC = multichannel pipette compatible

comet assay tanks



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

The COMET assay tanks are specialised electrophoresis units for Single Cell Gel Electrophoresis. The units are specifically designed to minimise exposure to light and reduce background DNA damage. Previously, units designed for standard electrophoresis have been used which with their clear construction have not offered an easy to use system.

Constructed from Ebony acrylic to prevent UV degradation, the slides sit on a cooling platform which can be connected to a water supply or chiller for active temperature control and cooling.



Ordering Information

CSL-COM10	Comet Assay Tank for 10 Slides	CSL-COM40	Comet Assay Tank for 40 Slides
CSL-COM20	Comet Assay Tank for 20 Slides	CSL-COM80	Comet Assay Tank for 80 Slides

accessories

gel levelling table

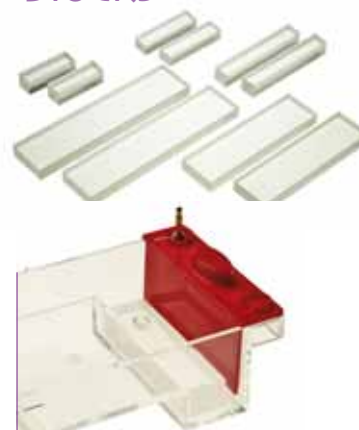


The Gel Levelling Table provides a useful way of pouring gels of uniform thickness. The table features a large 32 x 26cm platform with large thumb-wheel levelling feet at each corner. A levelling bubble is supplied.



buffer saver blocks

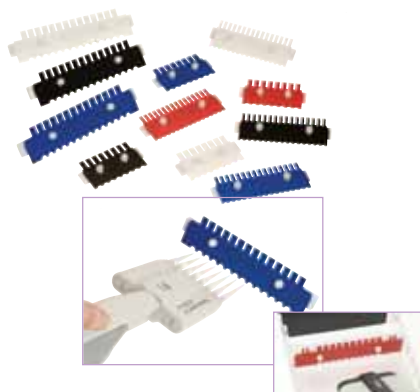
Buffer saver blocks physically reduce the volume in positive and negative compartments of a gel chamber and so reduces buffer requirements, saving cost. Blocks are available for all multiSUB Horizontal Gel Units.



combi-comb/loading guides

- Colour coded for thickness
- Comb and guide in one piece for convenience
- Adjustable height

These guides combine the convenience of a regular comb with the appropriate guide (same teeth number and width) for loading samples, simply flip over.



gel rulers



- Sharp, clear, easily visible markings
- For use with ethidium bromide gels
- Ideal for gel presentation

high efficiency horizontal gel cooling

- Effective cooling
- Cools without external chilling systems
- Improves gel resolution and reduces run times



Comprising a removable Gel Platform and CoolPack this unique system will cool the buffer chamber of multiSUB horizontal gel units without any external chilling. Simply place the platform over the running tray and place a pre-chilled CoolPack on top. This allows the CoolPack to sit above the gel in buffer directly removing any heat generated.

Ordering Information

High Efficiency Horizontal Gel Cooling Systems

MSMINICP	Cool-Pack and Platform for MSMINI
MSMIDICP	Cool-Pack and Platform for MSMIDI
MSCHOICECP	Cool-Pack and Platform for MSCHOICE
MSMAXICP	Cool-Pack and Platform for MSMAXI
MSSCREENCP	Cool-Pack and Platform for MSSCREEN

Horizontal Buffer Saver Blocks

MSMINIBSB	Buffer Saver Blocks for MSMINI, pk/2 saves 100ml of buffer
MSMIDIBSB	Buffer Saver Blocks for MSMIDI, pk/2 saves 100ml of buffer
MSCHOICEBSB	Buffer Saver Blocks for MSCHOICE, pk/2 saves 190ml of buffer
MSMAXIBSB	Buffer Saver Blocks for MSMAXI, pk/2 saves 450ml of buffer
MSSCREENBSB	Buffer Saver Blocks for MSSCREEN, pk/2 saves 625ml of buffer

Horizontal Systems Combi Comb / Loading Guides

(x = comb well number, y = comb thickness)	
MS7-x -yLG	Combination Comb and Loading Guide for MSMINI
MS10-x -yLG	Combination Comb and Loading Guide for MSMIDI
MS15-x -yLG	Combination Comb and Loading Guide for MSCHOICE
MS20-x -yLG	Combination Comb and Loading Guide for MSMAXI
MS26-x -yLG	Combination Comb and Loading Guide for MSSCREEN

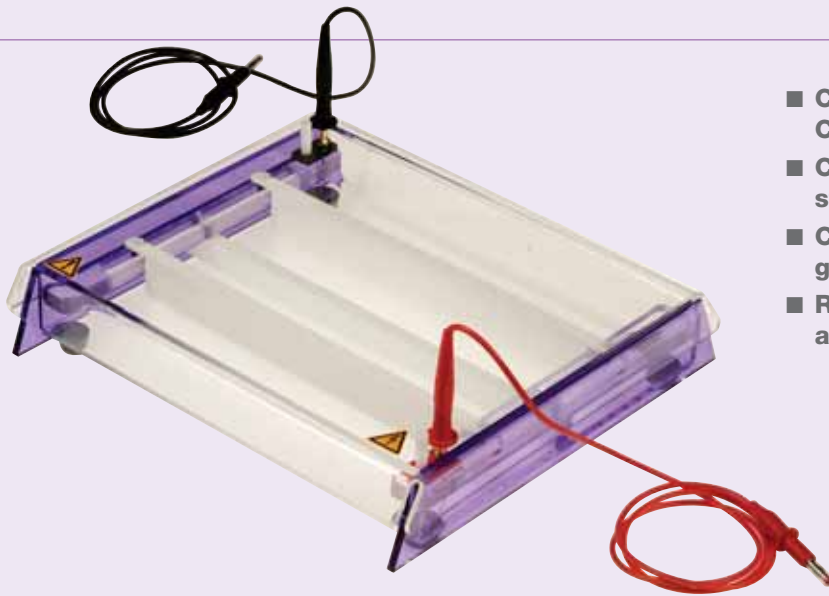
Gel Levelling Table

CSL-GLT	Gel Levelling Table
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UV Fluorescent Ruler

CSL-RULER	UV Fluorescent Ruler
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cellulose acetate system



- **Compact High Resolution Systems for Clinical Electrophoresis**
- **Can accommodate cellulose acetate strips up to 24 x 20cm**
- **Complete range of cellulose acetate gels and kits**
- **Range includes Densitometer, Scanner and Software**

Clinical Electrophoresis Tests:-
Haemoglobin, Serum Proteins
for Monoclonal Gammopathies,
Urine Proteins, Isoenzymes,
Lipo and Glycoproteins and
For Immunofixation

Typical Applications

Cellulose acetate electrophoresis is an important technique in clinical diagnostics. This new range of cellulose acetate products offers a complete system solution for Research and Clinical Cellulose acetate electrophoresis procedures.

The Cellulose Acetate system is the ideal tank for both standard and wet cellulose acetate electrophoresis. This unit is designed for both routine and research requirements and is built to our high quality standard. The unit includes an adjustable support which enables easy and fast adjustment for different lengths of cellulose acetate strip.

To compliment this electrophoresis system, a range of cellulose acetate strips, kits and accessories is available.

CELLULOSE ACETATE GELS - a new complete range of wet cellulose acetate gels is available. These have the advantage that they can be used for a wide variety of clinical electrophoresis applications including haemoglobin, serum proteins for monoclonal gammopathies, urine proteins, isoenzymes, lipo and glycoproteins.

CellasGEL cellulose acetate gels are available in a variety of sizes and applications:- 2.5 x 14cm, 2.5 x 17cm, 5.7 x 14cm, 5.7 x 17cm, 5 x 24cm, 17 x 17cm, 6 x 7.6cm Helena, 5.7 x 10.2 arched.

KITS are available for multiple tests on serum proteins, haemoglobin, urine proteins and for immunofixation.

APPLICATORS - variety of rapid sample applicators are available for a selection of applications:-

- Two specimen applicator for semi micro samples on strips 2.5cm wide.
- Four specimen applicator for semi micro samples on strips 5.7cm wide.
- Four specimen applicator for Haemoglobin samples on strips 5.7cm wide.
- Six specimen applicator for samples on strips 5.7cm wide.

BRIDGES are available in a variety of formats for cellulose acetate sheets of dimensions and for arched and horizontal Helena types of gels.

DENSITOMETER - to complete the range, a universal densitometer scanner and software able to read 144 tests per minute is offered.



Specimen applicator

Ordering Information

CSLCELLAS	Horizontal Unit for Cellulose Acetate Electrophoresis
CSLDENS	Glob AI Scan Software Densitometer (computer and scanner not included)
CSLSCAN	Flatbed Scanner for Glob AI Scan

TECHNICAL SPECIFICATIONS

Strip dimensions 24 x 20cm W x L
Unit dimensions - 30 x 30cm

CODE	DESCRIPTION	CODE	DESCRIPTION
CSLGEL2.514250	2.5x14 CellasGEL 250 micron	CSLKITCU	CellasKIT IFE SERUM + CONCENTRATED URINE (5+5 tests for 5 patients) on CellasGEL
CSLGEL2.514200	2.5x14 CellasGEL 200 micron	CSLKIT2432	CellasKIT IMMUNOFIXATION (24 semimicro or 32 micro tests) on CellasGEL
CSLGEL2.517200	2.5x17 CellasGEL 200 micron	CSLKITSP100200	CellasKIT SERUM PROTEINS (100 semimicro or 200 micro tests) on CellasGEL
CSLGEL5.714250	5.7x14 CellasGEL 250 micron	CSLKITSP150200	CellasKIT HIGH RESOLUTION OF SERUM PROTEINS (150 semimicro or 200 micro tests) on CellasGEL
CSLGEL5.714200	5.7x14 CellasGEL 200 micron	CSLKITHG100	CellasKIT HEMOGLOBINS (100 semimicro tests) on CellasGEL
CSLGEL5.714250P	5.7x14 CellasGEL 250 micron Pratiga perforate	CSLKITIFE1	CellasKIT IFE 1 PATIENT (10 semimicro tests) 10.2x12 cm for CellasClear
CSLGEL5.714200P	5.7x14 CellasGEL 200 micron Pratiga perforate	CSLKITSP480	CellasKIT SERUM PROTEINS (480 micro tests) on CellasClear
CSLGEL524190R	5x24 CellasGEL RS 190 micron Rectangular H.R.	CSLBDG8.5L	Bridge 8.5 cm for CellasGEL sheets 18.3x14cm
CSLGEL1717200	17x17 CellasGEL 200 micron	CSLBDG11L	Bridge 11 cm for CellasGEL sheets 17x17cm
CSLGEL67.6H	CellasGEL /Myl (Helena size) 6x7.6	CSLBDG8.5S	Bridge 8.5 cm (standard size for CellasGEL kits) for CellasGEL strips 5.7x14 or 2.5x14cm
CSLGEL5.710.2A	CellasGEL /Myl for arched position electrophoresis 5.7x10.2	CSLBDG14RS	Bridge 14 cm for CellasGEL RS Wedge 5x18.5 cm
CSLAPPS22	Applicator Semimicro 2+2 for CellasGEL 2.5x14 cm and Kit code CSLKITCU	CSLBDG11S	Bridge 11 cm for CellasGEL strips 5.7x17 cm
CSLAPPS4	Applicator Semimicro 4 for 1.2 _/9mm - First type	CSLBDGA	Bridge for in arched position electrophoresis
CSLAPPM8	Applicator Micro 8 for CellasGEL	CSLBDGH	Bridge for horizontal position electrophoresis Helena type
CSLAPPM8M	Applicator Micro 8 for CellasGEL/Myl		
CSLAPPS18	Applicator Semimicro 18 for CellasGEL sheets 18.3 x14cm and 18.3 x17cm		
CSLAPPS18M	Applicator Semimicro 18 for CellasGEL/Myl sheets 19.85 x 7.6 cm		

Other products are available in this range, please inquire.

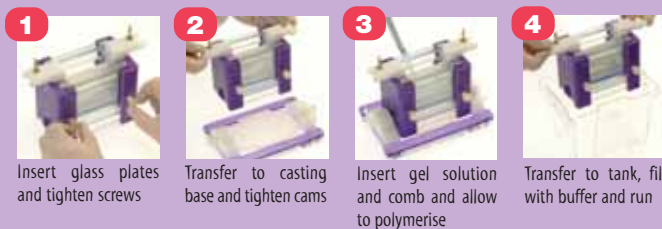
omniPAGE....

- **Injection Moulded Mini Unit** - durable, leak-proof environment for complete safety and long life
- **Compatible** with all major brands of precast gels
- **Rapid Gel Casting and Loading** ensures trouble free gel set-up
- **Versatile** - interchangeable modules for slab gel and 2-D electrophoresis as well as electroblotting using a single universal buffer tank

SIMPLE, RAPID, LEAK-PROOF GEL CASTING....

option

A



1 Insert glass plates and tighten screws

2 Transfer to casting base and tighten cams

3 Insert gel solution and comb and allow to polymerise

4 Transfer to tank, fill with buffer and run

new option

B



1 Insert glass plates and slide gates to create efficient seal

2 Transfer to casting base and tighten cams

3 Insert gel solution and comb and allow to polymerise

4 Transfer to tank, fill with buffer and run



PRESSURE CLAMPING FRAME

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 to reduce breakage.



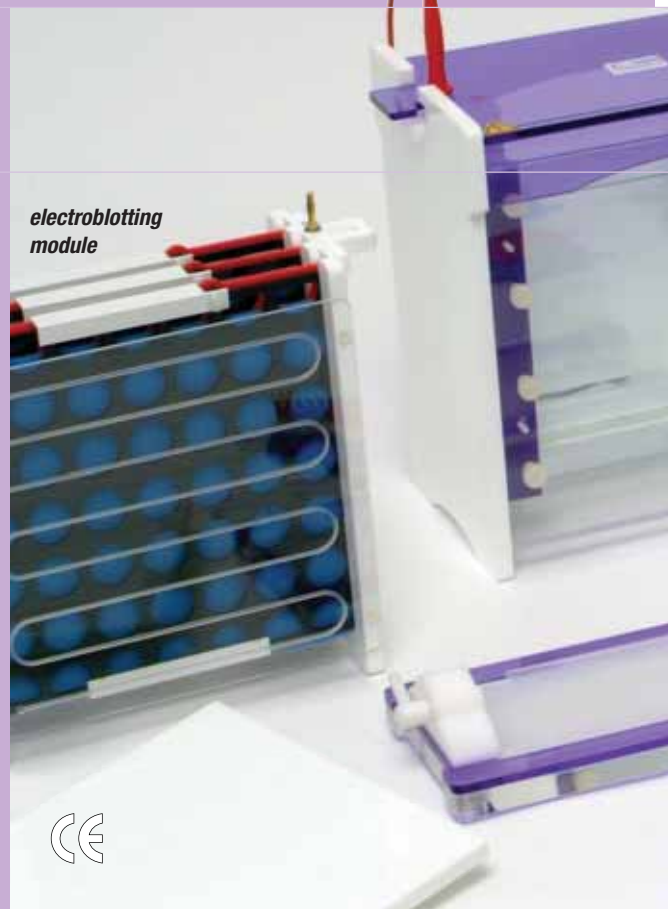
RUN UP TO 4 GELS AT A TIME

While most vertical gel units can run only one or two gels, the omniPAGE 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.



electroblotting module



EXTENSIVE RANGE OF COMBS & SPACERS



- 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 MULTI-CHANNEL PIPETTE COMPATIBLE



The number of samples can be maximised using high tooth number combs

SETTING A NEW STANDARD IN VERTICAL ELECTROPHORESIS

**omniPAGE maxi,
20x20cm**

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

**omniPAGE
mini, 10x10cm**

2-D module

casting base

**electroblotting
module**

2-D module

casting base

OMNI - *om-ni*- all, everything

The omniPAGE 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 during 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 – only one screw per side for omniPAGE Mini or new zero screw slide clamps. This ensures fast set up times while even pressure bars and ultra soft seals guarantee leak proof casting. Once the gel has polymerised, the gel running module is simply inserted into the gel tank for electrophoresis.

INTERCHANGEABLE MODULES

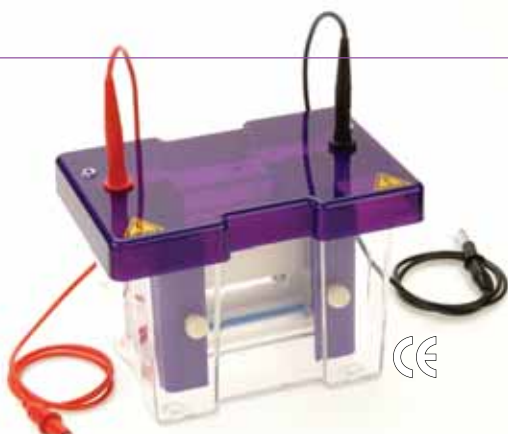


*Double hinged cassettes
for added convenience*

*Retractable connectors
compatible with most
major power supplies*

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.

omniPAGE mini



- Injection moulded construction
- Compatible with all 8 x 10 and 10 x 10cm precast gels
- Rapid gel casting and loading
- Low buffer volumes
- Rapid set up cooling
- Run up to four gels

Typical Applications

Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations



omniPAGE Mini and optional accessories



internal running module, clamp version



gel loading guides

Technical Specifications

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

The preferred unit for routine mini protein electrophoresis, the omniPAGE 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 unit incorporates a sealing system which is compatible with all major types of 8 x 10cm and 10 x 10cm precast gel.

Gel casting and running utilise the same insert, no transfer of glass plates during gel casting is necessary. The insert contains the option of sliding clamps or just one screw per clamping bar side allowing very rapid set up of both hand cast and precast gels. Ultra soft silicone seals and pressure bars which surround the glass plates guarantee leak proof gel casting. 2mm thick glass plates prevent breakage and have bonded spacers for convenience.

Accessory electroblotting and tube gel modules are available which use the same outer tank and lid.

Ordering Information

VS10D*/CVS10D † omniPAGE Mini, 10 x 10cm includes Glass Plates with bonded 1mm thick spacers, 2x 12 sample combs, cooling pack, dummy plate

VS10DSYS*/CVS10DSYS † omniPAGE Mini, 10 x 10cm incl. Glass Plates with bonded 1mm thick spacers, 2x 12 sample combs, cooling pack, dummy plate and Casting Base

VS10PRE*/CVS10PRE † omniPAGE Mini, 10 x 10cm includes dummy plate, cooling pack

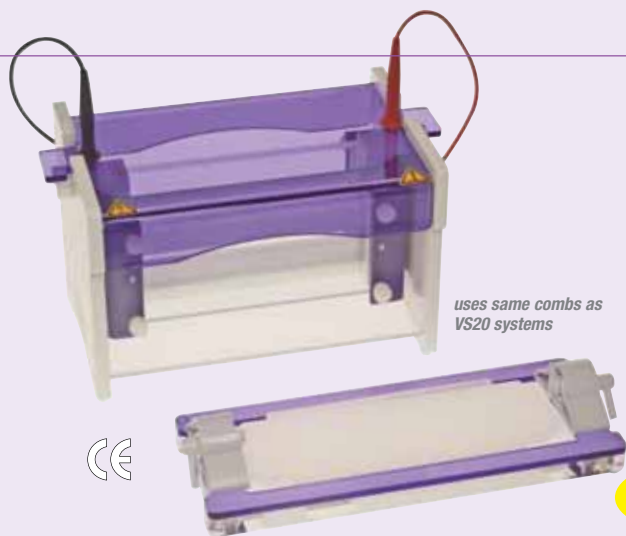
VS10DCAST	10 x 10cm Casting Base	VS10PGS1	10 x 10cm Plain Glass Plates with 1mm Bonded Spacers (pk/2)
VS10DCASTM	Replacement Silicone Mat for 10 x 10cm Casting Base	VS10NGS1.5	10 x 10cm Notched Glass Plates with 1.5mm Bonded Spacers (pk/2)
VS10DIRM*	Inner Running Module	VS10PGS1.5	10 x 10cm Plain Glass Plates with 1.5mm Bonded Spacers (pk/2)
CVS10DIRM†	Inner Running Module	VS10NGS2	10 x 10cm Notched Glass Plates with 2mm Bonded Spacers (pk/2)
VS10ICB	Mini Cooling Pack	VS10PGS2	10 x 10cm Plain Glass Plates with 2mm Bonded Spacers (pk/2)
VS10-X-LG	Loading Guides x = sample number	VS10DP	Dummy Plate, 10 x 10cm
VS10NG	10 x 10cm Notched Glass Plates 2mm thick (pk/2)	VS10S0.75	10cm Spacers - 0.75mm (pk/2)
VS10PG	10 x 10cm Plain Glass Plates 2mm thick (pk/2)	VS10S1	10cm Spacers - 1mm thick (pk/2)
VS10NGS0.75	10 x 10cm Notched Glass Plates with 0.75mm Bonded Spacers (pk/2)	VS10S1.5	10cm Spacers - 1.5mm thick (pk/2)
VS10PGS0.75	10 x 10cm Plain Glass Plates with 0.75mm Bonded Spacers (pk/2)	VS10S2	10cm Spacers - 2mm thick (pk/2)
VS10NGS1	10 x 10cm Notched Glass Plates with 1mm Bonded Spacers (pk/2)	RPW-0.2	Replacement Platinum Wire - 0.2mm, 50cm

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
VS10-1-0.75	Comb 1 Prep, 1 Marker, 0.75mm thick	500µl	VS10-1-1.5	Comb 1 Prep, 1 Marker, 1.5mm thick	1000µl
VS10-5-0.75	Comb 5 sample, 0.75mm thick	70µl	VS10-5-1.5	Comb 5 sample, 1.5mm thick	140µl
VS10-8MC-0.75	Comb 8 sample MC, 0.75mm thick	40µl	VS10-8MC-1.5	Comb 8 sample MC, 1.5mm thick	80µl
VS10-9-0.75	Comb 9 sample, 0.75mm thick	35µl	VS10-9-1.5	Comb 9 sample, 1.5mm thick	70µl
VS10-10-0.75	Comb 10 sample, 0.75mm thick	30µl	VS10-10-1.5	Comb 10 sample, 1.5mm thick	30µl
VS10-12-0.75	Comb 12 sample, 0.75mm thick	25µl	VS10-12-1.5	Comb 12 sample, 1.5mm thick	50µl
VS10-16MC-0.75	Comb 16 sample MC, 0.75mm thick	20µl	VS10-16MC-1.5	Comb 16 sample MC, 1.5mm thick	40µl
VS10-20-0.75	Comb 20 sample, 0.75mm thick	15µl	VS10-20-1.5	Comb 20 sample, 1.5mm thick	30µl
VS10-1-1	Comb 1 Prep, 1 Marker, 1mm thick	650µl	VS10-1-2	Comb 1 Prep, 1 Marker, 2mm thick	1300µl
VS10-5-1	Comb 5 sample, 1mm thick	100µl	VS10-5-2	Comb 5 sample, 2mm thick	200µl
VS10-8MC-1	Comb 8 sample MC, 1mm thick	60µl	VS10-8MC-2	Comb 8 sample MC, 2mm thick	120µl
VS10-9-1	Comb 9 sample, 1mm thick	50µl	VS10-9-2	Comb 9 sample, 2mm thick	100µl
VS10-10-1	Comb 10 sample, 1mm thick	40µl	VS10-10-2	Comb 10 sample, 2mm thick	80µl
VS10-12-1	Comb 12 sample, 1mm thick	35µl	VS10-12-2	Comb 12 sample, 2mm thick	70µl
VS10-16MC-1	Comb 16 sample MC, 1mm thick	25µl	VS10-16MC-2	Comb 16 sample MC, 2mm thick	50µl
VS10-20-1	Comb 20 sample, 1mm thick	20µl	VS10-20-2	Comb 20 sample, 2mm thick	40µl

* screw clamps; † sliding clamps

Combs, spacers and accessories also available in 0.5mm MC = multichannel pipette compatible

omniPAGE mini wide



- Offers the capacity of two mini gels on a single gel
- Rapid gel casting and loading
- Optional low or high buffer volumes
- Rapid set up cooling



For combs, see page 16

Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations

Typical Applications

The omniPAGE mini wide vertical gel unit with a gel width of 20cm effectively allows double the number of samples to be resolved as the omniPAGE 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.

Simple set up using ultra soft silicone seals guarantees trouble free glass plate loading and gel casting. Dual gaskets on the gel running insert along with notched and plain glass plates ensure leak proof gel running. Rapid set up cooling retains resolution in extended separations and also saves on buffer volume without affecting run quality.

4mm thick glass plates 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 maximize sample loading and recovery. Accessory electroblotting and tube gel modules are available which use the same outer tank and lid.

Technical Specifications

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

Ordering Information

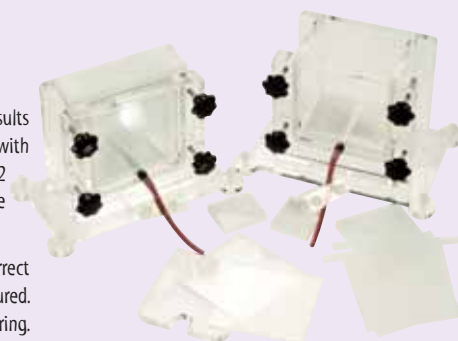
VS10WD	omniPAGE Mini Wide, 20 x 10cm Dual, 2 sets of Glass Plates with 1mm thick bonded Spacers, 2 x 24 sample, 1mm thick combs	
VS10WDSYS	omniPAGE Mini Wide, 20 x 10cm Dual, 2 sets of Glass Plates with 1mm thick bonded Spacers, 2 x 24 sample, 1mm thick combs including caster	
VS20CAST	20 x 10cm Casting Base	VS10WNGS1 20 x 10cm Notched Glass Plates with 1mm Bonded Spacers (pk/2)
VS20DCASTM	Replacement Silicone Mat for 20 x 10cm Casting Base	VS10WPGS1 20 x 10cm Plain Glass Plates with 1mm Bonded Spacers (pk/2)
VS10WDIRM	Inner Running Module	VS10WPGS1.5 20 x 10cm Plain Glass Plates with 1.5mm Bonded Spacers (pk/2)
VS20-x -LG	Loading guides for omniPAGE mini combs, x = comb well number	VS10WPGS2 20 x 10cm Plain Glass Plates with 2mm Bonded Spacers (pk/2)
VS10WNG	20 x 10cm Notched Glass Plates 4mm thick (pk/2)	VS10WDP Dummy Plate, 20 x 10cm
VS10WPG	20 x 10cm Plain Glass Plates 4mm thick (pk/2)	RPW-0.2 Replacement Platinum Wire - 0.2mm, 100cm
VS10WNGS0.75	20 x 10cm Notched Glass Plates with 0.75mm Bonded Spacers (pk/2)	
VS10WPGS0.75	20 x 10cm Plain Glass Plates with 0.75mm Bonded Spacers (pk/2)	

multiple minigel casting

- Integral levelling feet and level bubble
- Standard and gradient gels can be poured
- Choice of 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 omniPAGE mini vertical electrophoresis units; with three models of 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.



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.



Ordering Information

CSL-6CAST	6 gel caster for 8 x 10cm or 10 x 10cm gels	CSL-GM15 15ml Gradient Mixer	CSL-GM100 100ml Gradient Mixer
CSL-12CAST	12 gel caster for 8 x 10cm or 10 x 10cm gels	CSL-GM25 25ml Gradient Mixer	CSL-GM500 500ml Gradient Mixer
CSL-24CAST	24 gel caster for 8 x 10cm or 10 x 10cm gels	CSL-GM50 50ml Gradient Mixer	

omniPAGE maxi

- Ideal for high resolution separations
- Rapid gel casting and loading
- Optional low or high buffer volumes
- Rapid set up cooling



Typical Applications

Maxi SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations

Technical Specifications

Plate dimensions,	20 x 20cm
Gel dimensions, (W x L)	16 x 17.5cm
Unit dimensions	26 x 16 x 28cm (W x D x H)
Max. sample capacity	192 samples, 48 samples per gel
Buffer volume	Min 1200ml; Max 5600ml
Combs available :	
No. of samples	1, 5, 10, 18MC, 24, 30, 36MC, 48
Thicknesses	0.75, 1, 1.5, 2mm

The preferred unit for maxi protein electrophoresis, the omniPAGE maxi unit combines convenient ease of use features with high resolution separations. Simple set up using ultra soft silicone seals guarantees trouble free glass plate loading and gel casting.

Dual gaskets on the gel running insert along with notched and plain glass plates ensure leak proof gel running. Rapid set up cooling retains resolution in extended separations and also saves on buffer volume without affecting run quality.

4mm thick glass plates 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 maximize sample loading and recovery. Accessory electroblotting and tube gel modules are available which use the same outer tank and lid.

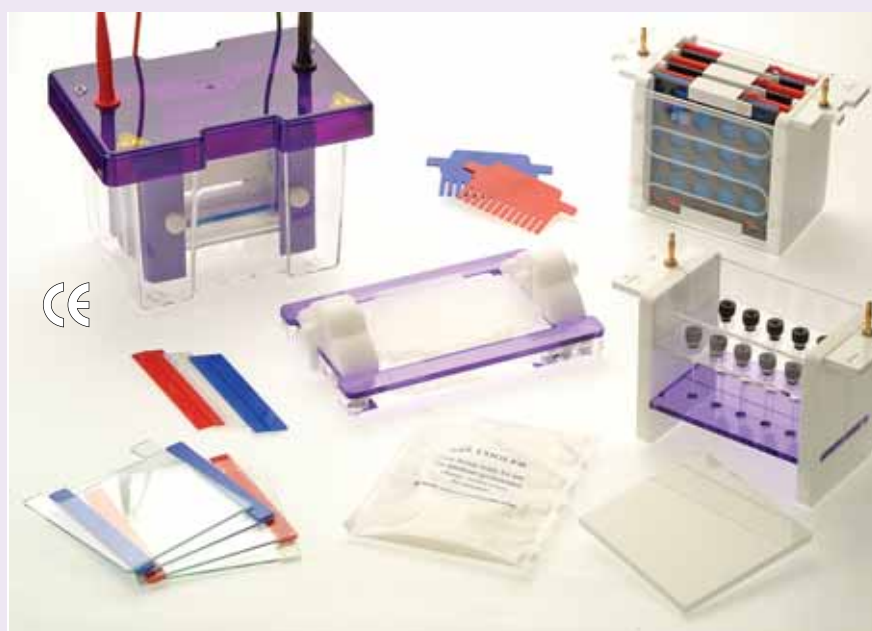
Ordering Information

VS20D	omniPAGE Maxi, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2x 24 sample combs, cooling pack, dummy plate		
VS20DSYS	omniPAGE Maxi, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2x 24 sample combs, cooling pack, dummy plate and Casting Base		
VS20DCAST	20 x 20cm Dual Casting Base	VS20PGS1.5	20 x 20cm Plain Glass Plates with 1.5mm Bonded Spacers (pk/2)
VS20DCASTM	Replacement Silicone Mat for 20 x 20cm Casting Base	VS20PGS2	20 x 20cm Plain Glass Plates with 2mm Bonded Spacers (pk/2)
VS20DIRM	Inner Running Module	VS20DP	Dummy Plate, 20 x 20cm
VS20ICB	Maxi Cooling Pack	VS20S0.75	20cm Spacers - 0.75mm (pk/2)
VS20-x -LG	Loading guides for omniPAGE maxi combs, x = comb well number	VS20S1	20cm Spacers - 1mm thick (pk/2)
VS20NG	20 x 20cm Notched Glass Plates 4mm thick (pk/2)	VS20S1.5	20cm Spacers - 1.5mm thick (pk/2)
VS20PG	20 x 20cm Plain Glass Plates 4mm thick (pk/2)	VS20S2	20cm Spacers - 2mm thick (pk/2)
VS20NGS0.75	20 x 20cm Notched Glass Plates with 0.75mm Bonded Spacers (pk/2)	RPW-0.2100	Replacement Platinum Wire - 0.2mm, 100cm
VS20PGS0.75	20 x 20cm Plain Glass Plates with 0.75mm Bonded Spacers (pk/2)		
VS20NGS1	20 x 20cm Notched Glass Plates with 1mm Bonded Spacers (pk/2)		
VS20PGS1	20 x 20cm Plain Glass Plates with 1mm Bonded Spacers (pk/2)		

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
VS20-1-0.75	Comb 1 Prep, 1 Marker, 0.75mm thick	1100µl	VS20-1-1.5	Comb 1 Prep, 1 Marker, 1.5mm thick	2200µl
VS20-5-0.75	Comb 5 sample, 0.75mm thick	160µl	VS20-5-1.5	Comb 5 sample, 1.5mm thick	320µl
VS20-10-0.75	Comb 10 sample, 0.75mm thick	80µl	VS20-10-1.5	Comb 10 sample, 1.5mm thick	160µl
VS20-18MC-0.75	Comb 18 sample MC, 0.75mm thick	40µl	VS20-18MC-1.5	Comb 18 sample MC, 1.5mm thick	80µl
VS20-24-0.75	Comb 24 sample, 0.75mm thick	30µl	VS20-24-1.5	Comb 24 sample, 1.5mm thick	60µl
VS20-30-0.75	Comb 30 sample, 0.75mm thick	25µl	VS20-30-1.5	Comb 30 sample, 1.5mm thick	50µl
VS20-36MC-0.75	Comb 36 sample MC, 0.75mm thick	20µl	VS20-36MC-1.5	Comb 36 sample MC, 1.5mm thick	40µl
VS20-48-0.75	Comb 48 sample, 0.75mm thick	15µl	VS20-48-1.5	Comb 48 sample, 1.5mm thick	30µl
VS20-1-1	Comb 1 Prep, 1 Marker, 1mm thick	1500µl	VS20-1-2	Comb 1 Prep, 1 Marker, 2mm thick	3000µl
VS20-5-1	Comb 5 sample, 1mm thick	200µl	VS20-5-2	Comb 5 sample, 2mm thick	400µl
VS20-10-1	Comb 10 sample, 1mm thick	100µl	VS20-10-2	Comb 10 sample, 2mm thick	200µl
VS20-18MC-1	Comb 18 sample MC, 1mm thick	50µl	VS20-18MC-2	Comb 18 sample MC, 2mm thick	100µl
VS20-24-1	Comb 24 sample, 1mm thick	40µl	VS20-24-2	Comb 24 sample, 2mm thick	80µl
VS20-30-1	Comb 30 sample, 1mm thick	35µl	VS20-30-2	Comb 30 sample, 2mm thick	70µl
VS20-36MC-1	Comb 36 sample MC, 1mm thick	25µl	VS20-36MC-2	Comb 36 sample MC, 2mm thick	50µl
VS20-48-1	Comb 48 sample, 1mm thick	20µl	VS20-48-2	Comb 48 sample, 2mm thick	40µl

MC = multichannel pipette compatible

modular systems



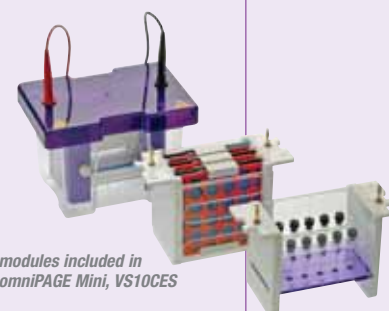
components and accessories of omniPAGE Mini, VS10CES

- Economy of bench space and cost
- Enhanced reproducibility
- Simple to use casting
- Rapid set up cooling

The omniPAGE range of Modular Vertical Gel Systems allow multiple electrophoresis techniques to be performed in the same unit. Using the same main tank and lid, three different inserts are interchangeable for slab gel, tube gel and electroblotting techniques. These systems are available in three size options, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm and are available as individual, combination or complete modular systems. Combination and modular systems offer maximum value and space and have the added benefit of increased consistency which results from using the same universal base and lid.

Mini, Mini Wide and Maxi Complete Modular Systems

These systems include all modules and accessories required for Slab Gel Electrophoresis, 2-D Electrophoresis and Electroblotting. The central component is the omniPAGE Mini Vertical unit, Mini Wide Vertical Unit or omniPAGE Maxi Vertical unit. These include a rapid and intuitive casting system, enhanced and easy to set up cooling system and have increased capacity - can run up to four gels per run. In addition, the omniPAGE Tube gel module is capable of resolving up to 10 first dimension gels and the Electroblotting module has a three blot capacity. The package includes all the necessary accessories for Slab Gel, First Dimension and Electroblotting. Each of these techniques benefits from rapid set up cooling packs which provide enhanced resolution even during high intensity 2-D electrophoresis and Electroblotting.



modules included in omniPAGE Mini, VS10CES

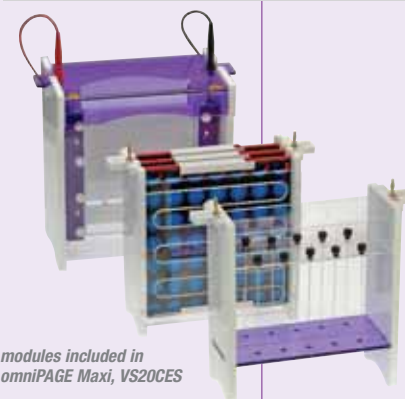
Ordering Information

VS10CES*/	Complete system for Mini Vertical Electrophoresis comprising:
CVS10CES†	1x omniPAGE Mini Vertical Unit which includes: 2x2mm thick notched glass plates, 2x2mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick 12 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Capillary Electrophoresis Module which includes: internal running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers plus: 1x Electroblotting Module comprising: internal electroblotting module, 3x compression cassettes for gel sizes up to 10x10cm and 6x fibre pads.
VS10WCES	Complete Mini Wide (20x10cm) Vertical Electrophoresis Modular System, comprising: 1x omniPAGE Mini Wide Vertical Unit which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick, 24 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Capillary Electrophoresis Module which includes: internal running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers plus: 1x Electroblotting Module comprising: internal electroblotting module, 3x compression cassettes for gel sizes up to 20x10cm and 6x fibre pads.
VS20CES	Complete system for Maxi Vertical Electrophoresis comprising: 1x omniPAGE Maxi Vertical Unit which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick 24 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Capillary Electrophoresis Module which includes: internal running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers. plus: 1x Electroblotting Module comprising: internal electroblotting module, 3x compression cassettes for gel sizes up to 20x20cm and 6x fibre pads.

* screw clamps; † sliding clamps

Technical Specifications

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



modules included in omniPAGE Maxi, VS20CES

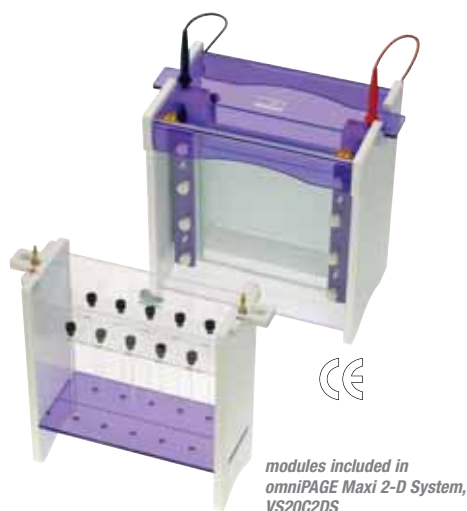
omniPAGE 2D systems



Mini, Mini Wide and Maxi Complete 2-D Systems

- Rapid set-up electrofocusing
- 10 tube capacity
- Extended accessory range
- Enhanced cooling features

The omniPAGE 2-D Systems include both modules required for Slab Gel and First Dimension Electrophoresis and accessories, to provide a complete Mini, Mini Wide or Maxi 2-D system. The Tube Gel Module includes a rapid release gasket for easy tube extraction. Focusing can be accomplished in as little as three hours in the Mini Unit. Disposable capillary tubes are included for added convenience, plus 2-D combs and spacers which are colour coded according to thickness for easy identification.



modules included in omniPAGE Maxi 2-D System, VS20C2DS



modules included in omniPAGE Mini Wide 2-D System, VS10WC2DS



modules included in omniPAGE Mini 2-D System, VS10C2DS

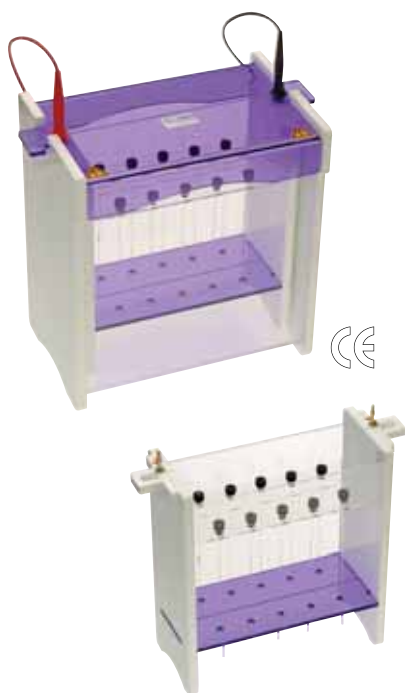
Ordering Information

VS10C2DS*	Complete Mini 2-D System comprising:
CVS10C2DS†	1x omniPAGE Mini Vertical Unit which includes: 2x2mm thick notched glass plates, 2x2mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick 12 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Capillary electrophoresis module which includes: internal running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers.
VS10WC2DS	Complete Mini Wide 2-D System comprising:
	1x omniPAGE Mini Wide Vertical Unit which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick 24 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Capillary electrophoresis module which includes: internal running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers.
VS20C2DS	Complete Maxi 2-D System comprising:
	1x omniPAGE Maxi Vertical Unit which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick 24 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Capillary Electrophoresis Module which includes: internal running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers

* screw clamps; † sliding clamps

Tube Gel Units, inserts and accessories

These stand-alone, complete units for first dimension capillary/tube gel electrophoresis, Mini 10x10cm, Mini Wide 20x10cm and Maxi 20x20cm formats, include omniPAGE tank and lid, tube gel insert, tubes and blanking ports. Units are interchangeable with omniPAGE slab gel and electroblotting inserts.



Ordering Information

VS10DC	omniPAGE Mini Tube Gel Unit, 10x10cm with tank and lid, glass capillary tubes, blanking ports and cooling pack.		
VS10DCI	omniPAGE Mini Tube Gel Insert - includes glass tubes and blanking ports.		
VS10WDC	omniPAGE Mini Tube Wide Gel Unit, 20x10cm with tank and lid, glass capillary tubes, blanking ports and cooling pack.		
VS10WDCI	omniPAGE Mini Tube Wide Gel Insert - includes glass tubes and blanking ports.		
MCT10	Mini Capillary Tubes, pk/100	MCT101.5	Mini Capillary Tubes, 1.5mm, pk/100
VS20DC	omniPAGE Maxi Tube Gel Unit, 20x20cm with tank and lid, glass capillary tubes, blanking ports and cooling pack.		
VS20DCI	omniPAGE Maxi Tube Gel Insert - includes glass tubes and blanking ports.		
MCT20	Maxi Capillary Tubes, pk/100	MCBP	Mini and Maxi Capillary Blanking ports

isoelectric focusing

- For IEF strip and gel applications
- Large cooling platform area
- Pick and place easy to position electrodes
- Grid for accurate electrode alignment

The IEF system has been designed to allow the full range of IEF flat bed electrophoresis techniques. These include wick based electrophoresis, precast horizontal IEF gel electrophoresis, hand cast horizontal IEF Gel electrophoresis and Iso Electric focussing using IEF strips. The unit includes enhanced cooling over a large platform which offers increased strip capacity and gel area.

Uniform cooling of the platform is achieved using a large ceramic plate which can be connected to any standard chiller via quick fit connectors for enhanced gel or strip cooling.



Low cost, high specification Chiller available for use with CSL IEF flatbed unit.



Ordering Information

CSL-IEF	Flatbed IsoElectric Focusing System, 26 x 26cm	
CSL-CHILLER	Chiller	
CSL-IEFPOS – positive electrode	CSL-IEFPLT – IEF Cooling plate	
CSL-IEFNEG – negative electrode	CSL-IEFFRME – IEF platform frame	

Technical Specifications

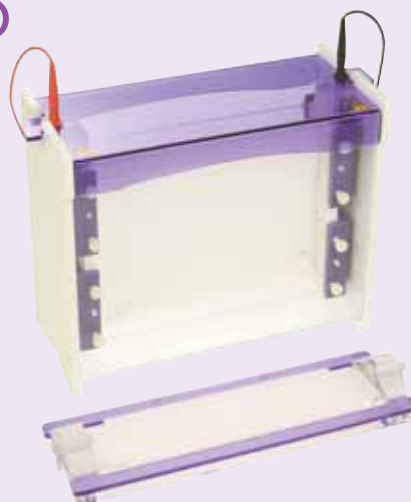
Max strip length	26cm
Max gel dimensions	26 x 26cm
Unit dimensions	55 x 35 x 10cm (W x D x H)

second stage 2-D

The omniPAGE VS30 unit has been designed to provide a convenient unit for the second stage of 2-D electrophoresis.

The 26cm active gel width provides a large gel area to resolve large IEF strips. In combination with the IEF system above, this offers a complete package for 2-D electrophoresis. The unit utilises the omniPAGE advanced design features to provide convenient ease of use with high resolution separations.

Rapid set up cooling retains resolution in extended separations and also saves on buffer volume without affecting run quality. Four gels can be resolved per run. A wide range of accessories is available to allow easy transition between 2-D and standard vertical electrophoresis techniques. In particular different types of 2-D comb allow a wide degree of versatility in sample selection and gel set-up.



- Ideal for second dimension electrophoresis
- Accepts strips up to 26cm in length
- Rapid set up coolpacks for enhanced resolution

Technical Specifications

Unit dimensions	36 x 33 x 18cm (W x H x D)
Plate dimensions	30 x 22cm (W x L)
Gel dimensions	28 x 20cm (W x L)
Max sample	300 samples per run; 75 samples per gel
Buffer volume	Min 1800ml, Max 8400ml
Combs available	
No. of teeth	1, 2, 4, 28MC, 56MC, 75
Thicknesses	0.25, 0.35, 0.5, 1, 1.5, 2.0mm

Ordering Information

VS30D	omniPAGE Maxi Plus, 30 x 22cm Dual with Glass Plates with bonded 1.5mm spacers, 2 x 28 sample combs, 2 x 2-D combs, cooling pack, dummy plate		
VS30DSYS	VS30D with Casting Base	VS30NGS1	30 x 22cm Notched Glass Plates with 1mm Bonded Spacers (pk/2)
VS30BI	omniPAGE VS30 Blot Maxi Insert - includes 3 cassettes and 6 fibre pads.	VS30PGS1	30 x 22cm Plain Glass Plates with 1mm Bonded Spacers (pk/2)
VS30DCAST	30 x 22cm Dual Casting Base	VS30PGS1.5	30 x 22cm Plain Glass Plates with 1.5mm Bonded Spacers (pk/2)
VS30DCASTM	Replacement Silicone Mat for 30 x 22cm Casting Base	VS30PGS2	30 x 22cm Plain Glass Plates with 2mm Bonded Spacers (pk/2)
VS30DIRM	Inner Running Module	VS30DP	Dummy Plate, 30 x 22cm
VS30ICB	Maxi Cooling Pack	VS30SO.75	22cm Spacers - 0.75mm (pk/2)
VS30-x -LG	Loading guides for omniPAGE maxi combs, x = comb well number	VS30S1	22cm Spacers - 1mm thick (pk/2)
VS30NG	30 x 22cm Notched Glass Plates 4mm thick (pk/2)	VS30S1.5	22cm Spacers - 1.5mm thick (pk/2)
VS30PG	30 x 22cm Plain Glass Plates 4mm thick (pk/2)	VS30S2	22cm Spacers - 2mm thick (pk/2)
VS30NGSO.75	30 x 22cm Notched Glass Plates with 0.75mm Bonded Spacers (pk/2)	RPW-0.2100	Replacement Platinum Wire - 0.2mm, 100cm
VS30PGSO.75	30 x 22cm Plain Glass Plates with 0.75mm Bonded Spacers (pk/2)		

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
1-VS30-1-1	Comb 1 Prep, 1 Marker, 1mm thick	2250µl	1-VS30-1-1.5	Comb 1 Prep, 1 Marker, 1.5mm thick	3375µl
VS30-2-1	Comb 2 sample, 1mm thick	1125µl	VS30-2-1.5	Comb 2 sample, 1.5mm thick	1680µl
VS30-4-1	Comb 4 sample, 1mm thick	550µl	VS30-4-1.5	Comb 4 sample, 1.5mm thick	825µl
VS30-28MC-1	Comb 28 sample, 1mm thick MC compatible	80µl	VS30-28MC-1.5	Comb 28 sample, 1.5mm thick MC compatible	120µl
VS30-56MC-1	Comb 56 sample, 1mm thick MC compatible	40µl	VS30-56MC-1.5	Comb 56 sample, 1.5mm thick MC compatible	60µl
VS30-75MC-1	Comb 75 sample, 1mm thick MC compatible	25µl	VS30-75MC-1.5	Comb 75 sample, 1.5mm thick MC compatible	37µl

Combs also available in other thicknesses and sample number, please inquire

omniPAGE electroblotting

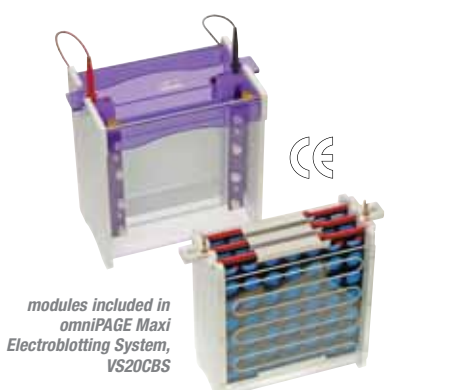


Mini, Mini Wide and Maxi Complete Electroblotting Systems

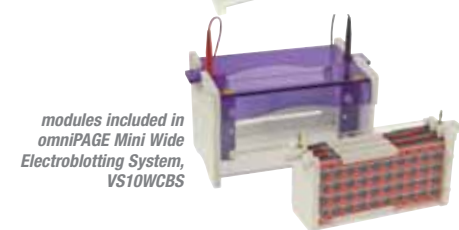
- Hinged cassettes
- 3 blot capacity
- High intensity electrodes
- Rapid set-up cooling

The omniPAGE Electroblotting Systems include both modules required for Slab Gel Electrophoresis and Electroblotting and accessories, to provide a complete Mini, Mini Wide or Maxi gel casting, running and electroblotting system. The electroblotting module includes three inter-locking cassettes and six fibre pads.

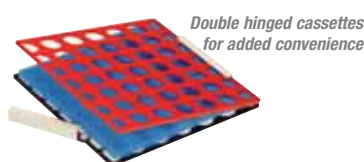
A high intensity current is generated by coiled platinum electrodes. These in conjunction with the advanced cooling features allow rapid electroblotting in as little as one hour.



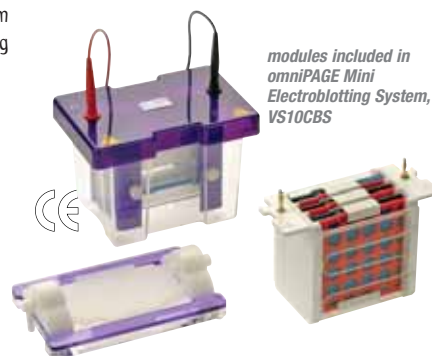
modules included in omniPAGE Maxi Electroblotting System, VS20CBS



modules included in omniPAGE Mini Wide Electroblotting System, VS10WCBS



Double hinged cassettes for added convenience



modules included in omniPAGE Mini Electroblotting System, VS10CBS

Ordering Information

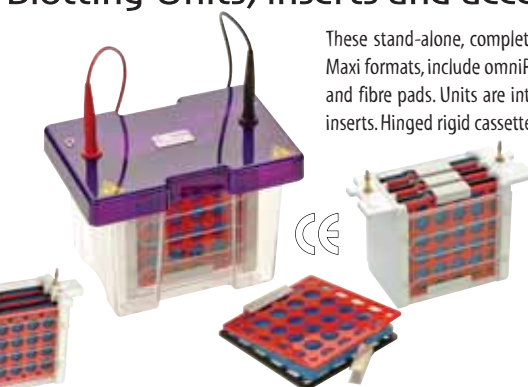
VS10CBS*/CVS10CBS†	Complete system for Mini Vertical (10 x 10cm) Electrophoresis & Blotting comprising: 1x omniPAGE Mini Vertical Unit which includes: 2x2mm thick notched glass plates, 2x2mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick 12 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Electroblotting Module which includes: internal electroblotting module, 3x compression cassettes for gel sizes up to 10x10cm and 6x fibre pads.
VS10WCBS	Complete system for Mini Wide Vertical (20 x 10cm) Vertical Electrophoresis & Blotting comprising: 1x omniPAGE Mini Wide Vertical Unit which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick, 24 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Wide Electroblotting Module (20x10cm) which includes: internal electroblotting module, 3x compression cassettes for gel sizes up to 20x10cm and 6x fibre pads.
VS20CBS	Complete system for Maxi Vertical (20 x 20cm) Electrophoresis & Blotting comprising: 1x omniPAGE Maxi Vertical Unit which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x dummy plate, 2x combs (1mm thick 24 samples), 1x casting base, silicone mat, cooling pack. plus: 1x Electroblotting Module comprising: internal electroblotting module, 3x compression cassettes for gel sizes up to 20x20cm and 6x fibre pads.

* screw clamps; † sliding clamps

Blotting Units, inserts and accessories

These stand-alone, complete units for electroblotting, Mini, Mini Wide and Maxi formats, include omniPAGE tank and lid, electroblotting insert, cassettes and fibre pads. Units are interchangeable with omniPAGE 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.

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



SB10	omniPAGE Blot Mini, 10 x 10cm System including tank and lid, 3 cassettes, 6 fibre pads, cooling pack	SB10W	omniPAGE Blot Mini Wide Unit, 20 x 10cm System including tank and lid, 3 cassettes, 6 fibre pads, cooling pack	SB20	omniPAGE Blot Maxi, 20 x 20cm System including tank and lid, 3 cassettes, 6 fibre pads, cooling pack
VS10BI	omniPAGE Blot Mini Insert - includes 3 cassettes and 6 fibre pads.	VS10WBI	omniPAGE Blot Mini Wide Insert - includes 3 cassettes and 6 fibre pads.	VS20BI	omniPAGE Blot Maxi Insert - includes 3 cassettes and 6 fibre pads.
SB10C	omniPAGE Blot Mini Cassette	SB10WC	omniPAGE Blot Mini Wide Cassette	SB20C	omniPAGE Blot Maxi Cassette
SB10F	Fibre pads - pk/6	SB10WF	Fibre pads - pk/6	SB20F	Fibre pads - pk/6

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**

Designed primarily for wet electroblotting of proteins, TankSub Electroblotters offer a combination of increased capacity with economy saving features. Both units, Mini 10 x 10cm and Maxi 20 x 20cm, have increased capacity over standard systems with up to five gel blot cassettes utilised at any one time. 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.



Double hinged cassettes for added convenience

Ordering Information

EBM10	Electro Blot Mini, 10 x 10cm System for five cassettes, with tank and lid,		
	5x cassettes, 12x fibre pads and cooling pack		
SB10C	Tank Blot Mini Cassette	SB10F	Fibre pads - pk/6
EBM20	Electro Blot Maxi, 20 x 20cm System for five cassettes, with tank and lid,		
	5x cassettes, 12x fibre pads and cooling pack		
SB20C	Tank Blot Maxi Cassette	SB20F	Fibre pads - pk/6

Technical Specifications

Unit dimensions (W x D x H)	Mini	19 x 13 x 19cm
	Maxi	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 1000ml; Max 1500ml
	Maxi:	Min 4300ml; Max 6000ml

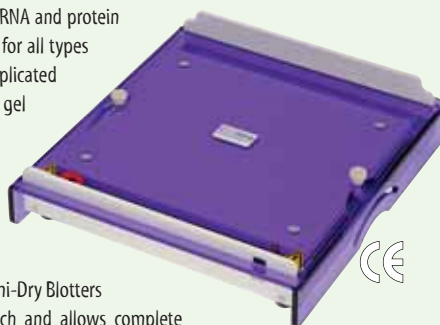
Semi Dry Blotters

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: western, southern and northern via uncomplicated buffer and set up procedures and are compatible with gel thicknesses from 0.25 up to 10mm without the need for additional equipment. Each unit is compatible with their respective omniPAGE vertical gel system.

Semi Dry Blotting has the added benefit of economic transfers due to very low buffer volumes – typically only a few millilitres of buffer are required per transfer. These Semi-Dry Blotters utilise a screw down lid, which secures the blot sandwich and allows complete

control of pressure ensuring even transfer. 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. Being translucent, it allows viewing of the blot sandwich to ensure correct positioning and transfer is occurring correctly. Electrode plates are fully separated to prevent arching or damage.



- **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**
- **Uniform heat dispersion**
- **Long life electrodes**

Technical Specifications

Unit dimensions (W x L x H)	Mini	16 x 16 x 7cm
	Maxi	26 x 26 x 7cm
	Maxi Plus	39 x 51 x 7cm
	Maxi Long	26 x 56 x 7cm
Max. sample, capacity	Mini	1 Blot, 10 x 10cm
	Maxi	1 Blot, 20 x 20cm
		4 Blots, 10 x 10cm
	Maxi Plus	1 Blot, 35 x 45cm
	Maxi Long	1 Blot, 20 x 50cm
Buffer volume	Mini	5ml
	Maxi	20ml
	Maxi Plus	75ml
	Maxi Long	50ml

Ordering Information

SD10	Semi Dry Mini, 10 x 10cm System	SD20	Semi Dry Midi, 20 x 20cm System
SD33	Semi Dry Maxi Plus, 33 x 45cm System	SD50	Semi Dry Maxi Long, 20 x 50cm System

blotting



Technical Specifications

Unit dimensions (W x D x H)	Mini	30 x 30 x 10cm
	Maxi	42 x 30 x 10cm

Capillary Blotters

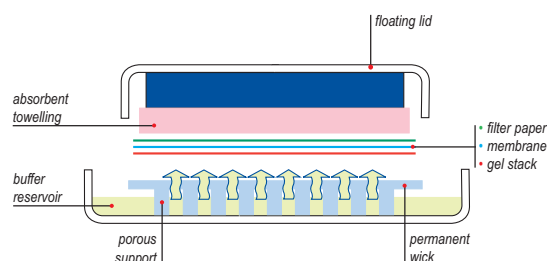
- Permanent wick with optimised capillary action
- Efficient transfer of high and low M.Wt. fragments
- Fast, easy set-up
- DNA transfer in 2 hours or less; RNA transfer in 3 hours or less
- Floating lid ensures even pressure without gel compression

These Capillary Blotting systems offer a contained unit for southern and northern blotting. These units incorporate optimized permanent wicks which eliminate the requirement for overlapping wicks, offering greater consistency.

The porous polyethylene platform draws up transfer buffer faster than traditional systems allowing for faster transfer times.

Side by side transfer of multiple gels can be performed in a single set up.

Available in 15 x 26cm and 28 x 26cm formats.



Principle:

Through capillary action, the buffer travels from the reservoir to the absorbent towelling via the porous supports, permanent wick, gel and membrane. This action optimises the transfer of low and high Molecular Weight DNA/RNA from gel to membrane without mechanical damage to even the thinnest of gels.

Ordering Information

CSL-CAPL	Capillary Blotting Unit (15cm x 26cm)
CSL-CAPS	Capillary Blotting Unit (28cm x 26cm)

- Low cost
- Simple construction
- Easy assembly
- Four sample configurations
- Alpha-numeric sample identification

Four different sample number size and style of Hybridisation Manifold are offered:- two types of dot blotter and two types of slot blotter.

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.

Dot blotters are available in 48 and 96 well versions and slot blotters in 24 and 48 well.

Dot and Slot Blotters



Model shown CSL-D48

Model	CSL-D48	CSL-D96	CSL-S24	CSL-S48
Configuration	3 x 16	8 x 12	2 x 12	3 x 16
Size of well	6mm diameter 12mm deep	6mm diameter 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	60 x 95 x 100cm	60 x 105 x 140cm	60 x 74 x 83cm	60 x 95 x 100cm
Membranes size required	12.1 x 4.4cm	11 x 7.4cm	12.1 x 4.4cm	12.1 x 4.4cm

Ordering Information

CSL-D48	48-well Dot Blot Manifold, 3 x 16 array	CSL-S24	24-well Slot Blot Manifold, 2 x 12 array
CSL-D96	96-well Dot Blot Manifold, 8 x 12 array	CSL-S48	48-well Slot Blot Manifold, 3 x 16 array

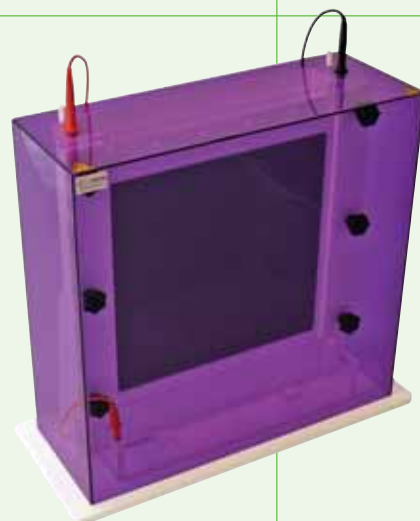
large format vertical

Ideal for a variety of large format vertical gel applications, these units offer advanced features for enhancing gel resolution and ease of use, essential when handling gels of this size. Each unit contains ultra soft silicone seals for easy plate sealing and trouble free runs, even over extended run times.

Resolution is enhanced by using an aluminium heat sink plate, essential for even sample migration. Added convenience is provided by a removable lower buffer tank and upper buffer drainage tap.

Special buffer chambers allow either low buffer volumes to be used for economy or high buffer volumes to be used for extended runs.

A wide range of interchangeable comb and spacer options allows a large number of techniques to be easily accomplished including; DNA Sequencing, 2-D analysis, Micro-satellite analysis, DNA fingerprinting, Gel shift assays, Single-Strand Conformation Polymorphism (SSCP), Heteroduplex and Oligonucleotide analysis.



- Run up to 96 samples
- Enhanced gel heat homogenisation
- Variable low or high buffer volumes
- 20 x 50cm or 33 x 45cm formats

DNA Sequencing, 2-D analysis, Micro-satellite analysis, DNA fingerprinting, Gel shift assays, Single-Strand Conformation Polymorphism (SSCP), Heteroduplex and Oligonucleotide analysis

Typical Applications



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.



fan heater sensor kit

Ordering Information

CSQ20 Large Format Vertical, 20cm wide, glass plates, 0.35mm spacers, 48 sample comb			
CSQ20-NG	Glass plates, pk/2 Notched	CSQ20-S0.35	Spacer set 0.35mm
CSQ20-PG	Glass plates, pk/2	CSQ20-S1	Spacer set 1mm
CSQ20-S0.25	Spacer set 0.25mm	CSQ20-S1.5	Spacer set 1.5mm
CSQ33 Large Format Vertical, 33cm wide, glass plates, 0.35mm spacers, 48 sample comb			
CSQ33-NG	Glass plates, pk/2 Notched	CSQ33-S0.35	Spacer set 0.35mm
CSQ33-PG	Glass plates, pk/2	CSQ33-S1	Spacer set 1mm
CSQ33-S0.25	Spacer set 0.25mm	CSQ33-S1.5	Spacer set 1.5mm
CSL-FHS*	Fan heater sensor kit for large format vertical units CSQ20 and CSQ33	CSL-MGR	Mini Glass Plate Rack for 20x 2mm Plates
		CSL-LGR	Large Glass Plate Rack for 10x 5mm Plates

Technical Specifications

Plate dimensions (W x L)	CSQ20 20 x 50cm CSQ33 33 x 45cm
Max sample capacity	CSQ20 48 samples CSQ33 96 samples
Buffer volume	CSQ20 Min 500ml, Max 1000ml CSQ33 Min 800ml, Max 2000ml
Combs available	
No. of teeth	24, 48, 80, 96
Thicknesses	0.25, 0.35, 1, 1.5mm

CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
CSQ20-0.25-24	Comb 24 sample, 0.25mm thick, Sharks tooth	7µl	CSQ20-1-24	Comb 24 sample, 1mm thick, Square tooth	40µl
CSQ20-0.25-48	Comb 48 sample, 0.25mm thick, Sharks tooth	3µl	CSQ20-1-48	Comb 48 sample, 1mm thick, Square tooth	20µl
CSQ33-0.25-48	Comb 48 sample, 0.25mm thick, Sharks tooth	7µl	CSQ33-1-48	Comb 48 sample, 1mm thick, Square tooth	35µl
CSQ33-0.25-96	Comb 96 sample, 0.25mm thick, Sharks tooth	3µl	CSQ33-1-80	Comb 80 sample, 1mm thick, Square tooth	20µl
CSQ20-0.35-24	Comb 24 sample, 0.35mm thick, Sharks tooth	9µl	CSQ20-1.5-24	Comb 24 sample, 1.5mm thick, Square tooth	60µl
CSQ20-0.35-48	Comb 48 sample, 0.35mm thick, Sharks tooth	5µl	CSQ20-1.5-48	Comb 48 sample, 1.5mm thick, Square tooth	30µl
CSQ33-0.35-48	Comb 48 sample, 0.35mm thick, Sharks tooth	9µl	CSQ33-1.5-48	Comb 48 sample, 1.5mm thick, Square tooth	50µl
CSQ33-0.35-96	Comb 96 sample, 0.35mm thick, Sharks tooth	5µl	CSQ33-1.5-80	Comb 80 sample, 1.5mm thick, Square tooth	30µl

The list above includes the most popular combs for these units. Many more comb options are available, please inquire.

* For 110 V AC, please add '-S' as a suffix to the appropriate code

Consort Power Supplies

- **Constant voltage, current or power**
- **Automatic crossover**
- **Overload Protection**
- **Short Circuit Protection**

All Consort Maxi Series (EV200) Power Supplies except the EV243 have four output terminals to allow four simultaneous runs. Model EV243 Mini power supply has a smaller footprint and three output terminals. While the powerful microprocessor allows complex programming, the Manual mode permits the setting of voltage, current, power and time for a routine electrophoresis run. Parameters can be changed temporarily without interrupting the run.

Programming - up to 9 different programs, each with 9 steps, can be stored in the non-volatile memory for future recall.

Timer - can be set to automatically terminate the run and sound an alarm when the allocated time or volt hours has elapsed.

Automatic cross-over - each model has constant voltage, constant current and constant power capabilities with automatic cross-over while showing which parameter is kept constant.

Automatic recovery after mains failure - after restoration of power, the instrument will automatically continue the run for the remaining time.

Data Transfer - optional data acquisition/control software for PC is available to visualise and examine the stored run details, store and program the methods, add notes to the run, identify the unit, copy or delete programs in the unit's memory.

Safety precautions - the AC line is automatically disconnected from the high voltage transformer when a ground leakage path is detected protecting the user from potential shock. Other safety features include protection against any overload including accidental short circuit of the output and voltage increases smoothly.



EV200 Maxi series

CONSORT MINI EV243

This Consort Mini power supply covers the ideal voltage range generally used with small electrophoresis units. Small enough to occupy very little bench space, it is portable and has a variety of additional features:-

Manual Set-up - voltage, current and power settings can be adjusted during the run.

Voltage ramp - this allows a linear voltage gradient for any step to be programmed.

Automatic recovery after power failure.

Data-logging, Transfer and Remote control.

Storage of the run progression - stores the run progression details and allows analysis by transfer of data to a PC. The power supply can additionally be controlled by a PC.

Technical Specifications

Timer	0 - 99.59 mins
Programs	9 of 9 sets each
Outputs	4 in parallel, 4mm sockets
Resolution	1V, 1mA, 1W
Dimensions	31 x 26 x 15cm (W x L x H)
Weight	10kg

Technical Specifications

Timer	0 - 99.59 mins
Programs	9 of 9 sets each
Outputs	3 in parallel, 4mm sockets
Resolution	1V, 1mA, 1W
Dimensions	14 x 20 x 13cm (W x L x H)
Weight	3kg

Ordering Information

EV243	Consort Power Supply	400 V	300mA	50 watts	EV215 (E815)	Consort Power Supply	1200 V	500 mA	300 watts
EV231 (E831)	Consort Power Supply	300 V	1000 mA	150 watts	EV232 (E832)	Consort Power Supply	3000 V	150 mA	150 watts
EV202 (E802)	Consort Power Supply	300 V	2000 mA	300 watts	EV233 (E833)	Consort Power Supply	3000 V	300 mA	300 watts
EV265 (E865)	Consort Power Supply	600 V	500 mA	150 watts	EV262 (E862)	Consort Power Supply	6000 V	150 mA	300 watts
EV261 (E861)	Consort Power Supply	600 V	1000 mA	300 watts					

For 110 V AC, please add '-S' as a suffix to the appropriate code

Product Selector

Application	CSL Units	Power Supply
Horizontal	miniRapid, multiSUB mini, multiSUB midi, multiSUB choice, COMET Assay, multiSUB maxi, multiSUB screen, Cellulose Acetate System	MP-250; MP-300; EV243
Vertical and Modular	omniPAGE Mini Vertical omniPAGE Maxi and VS30 Vertical and Maxi and VS30 Modular Blotters omniPAGE Mini and Maxi 2-D and Complete Modular Systems	MP-250; MP-300; EV243 EV261; EV215 EV215
Blotters	Mini TankBlot, Modular Blot and Mini Semi Dry Blot Maxi TankBlot, Modular Blot and Maxi Semi Dry Blot	MP-250; MP-300; EV202; MP-2AP MP-2AP; EV202; EV261
Large Format Verticals	20cm and 35cm wide Large Format Verticals, IEF Flatbed System	MP-2000P; EV232; EV233; EV262

Power Supplies

omniPAC MAXi Programmable Power Supplies are high performance, easy to operate instruments, which can handle virtually any application from high voltage electrophoresis to high current blotting. Offering both graphic and text displays, omniPAC MAXi are completely programmable with self prompting menus and multiple operation modes.

Versatile: three models are available offering maximum output capability from 500V to 2000V, 400mA to 2A and 200 watts. These units are suitable for running multiple SDS gels, blotting and large submarine gels.

Fully Programmable: system parameter entry is via the membrane keypad and the start key. They can be programmed to recall and run constant or multi-step electrophoresis in a variety of operational modes :

1. Constant operation with timer - program constant voltage, current or wattage with timer to eliminate the possibility of over running samples in gels.
2. Memory mode - Store 16 files to recall and re-run favourite multi step programmes.

Display: omniPAC MAXi power supplies have large, 128 x 64 dot matrix display screens allowing both graphic and text visualisation.



Set parameters will be displayed continuously compared with actual run conditions. This can be viewed by touching 'select display' key.

Safety: omniPAC MAXi models meet all relevant safety standards to protect both the operator and the instrument. The alarm will sound in event of ground leakage, no load or overload.

omniPAC MAXi

- High performance, easy to operate
- Graphic and text displays
- Completely programmable
- Programme constant voltage and current
- Memory mode - Stores 16 files to recall and re-run
- Safety - Comply to all relevant safety standards

Technical Specifications

MAXi	MP-500P	MP-2000P	MP-2AP
Max. Voltage	500V	2000V	200V
Max. Current	400mA	300mA	2A
Max. Watt	200W	200W	200W
Output Type	Constant Voltages ; Constant Current ; or Constant Watt		
Program Storage	---- 16 programmed files ----		
Program Multi-Step	---- Up to 6 steps ----		
Timer	---- 1-999 mins ----		
Display	-- 28 x 64 dot matrix display screen --		
Safety	---- No load ; Leakage and ---- Overload Detection		
Dimensions	18 (w) x 28 (l) x 14 (h) cm		
Operation Voltages	110 / 220V		

Technical Specifications

MIDI	MP-250N	MP-300N
Max. Voltage	250V	300V
Max. Current	400mA	400mA
Max. Watt	100W	100W
Output Type	Constant Voltage or Current	
Program Storage	10 methods	10 methods
Timer	1-999 mins	1-999 mins
Dimension	W16 (w) x 14 (l) x 7 (h) cm	
Operation Voltages	110 / 220V	

Technical Specifications

MINI	MP-100EP	MP-150EP
Max. Voltage	100V	150V
Max. Current	400mA	400mA
Max. Watt	40W	60W
Output Type	25; 50; 75 & 100V	75; 100; 125 & 150V
Safety	---- No load Detection ----	
Dimension	10.5 (w) x 15 (l) x 7.5 (h) cm	
Operation Voltage	110 / 220V	



Mini MP-250 and MP-300



MP-100EP and MP-150EP



omniPAC MIDI

- PROGRAMME CONSTANT VOLTAGE AND CURRENT
- ALARM CAN BE SET AT THE END OF PROGRAM
- AUTO CUT-OFF FUNCTION

These inexpensive, compact omniPAC MIDI power supplies are ideal for routine horizontal and mini vertical electrophoresis. Microprocessor control allows user-programming, of up to ten programs, and can be set-up to run in constant voltage and constant current modes. Two gel chambers can be connected at any one time. An optional timer can be set to end the run and sound an alarm. Safety features include shrouded plugs and sockets, no load detection and ground leakage detection.

omniPAC MINI

- COMPACT SIZE
- SAFETY DESIGN : SHROUDED PLUG AND SOCKET; NO LOAD DETECTION
- CONSTANT VOLTAGE
- LOW COST AND ECONOMICAL

omniPAC MINI power supplies have been developed specifically for horizontal gel electrophoresis systems. These ultra compact power units with single outlets, are recognised as amongst the most compact and inexpensive power supplies currently available and are designed and constructed to the most rigorous safety standards.

Ordering Information

MP-100EP	omniPAC Power Supply	100V	400mA	40W	CSL-CAB	Replacement Cables, pk/2
MP-150EP	omniPAC Power Supply	150V	400mA	60W	CSL-CAB2	Replacement CSQ unit cables, pk/2
MP-250	omniPAC Power Supply	250 V	400 mA	100W	CSL-4-4	Power supply adapters, 4mm to 4mm
MP-300	omniPAC Power Supply	300V	400mA	100W	CSL-4-2	Power supply adapters, 4mm to 2mm
MP-500P	omniPAC Power Supply	500V	400mA	200W	CSL-2-4	Power supply adapters, 2mm to 4mm
MP-2000P	omniPAC Power Supply	2000V	300mA	200W		
MP-2AP	omniPAC Power Supply	200V	2000mA	200W		

Gel Drying

Dryer

- Maxi dries up to twelve 10 x 10cm gels at a time
- Microprocessor controls temperature and timer
- Optimal tight seal during the drying process

Vacuum Pump

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



With a drying area of 21 x 31 cm, 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. When applying the vacuum, a groove that frames the drying surface provides an optimal tight seal during the drying.

Technical Specifications

Temperature Increment	0.1°C
Temperature Calibration	Yes
Temp Uniformity	± 0.2°C
Timer	1-999 mins
Drying area	Midi 21 x 31cm Maxi 35 x 45cm
Operating Temp. Range	Ambient to 90°C
Dimension WxLxH	Midi 30 x 36 x 8cm Maxi 44 x 50 x 8cm
Condenser vapour capacity	1.5L
Dimensions WxLxH	35.5 x 28.5 x 39cm



GelMaster™ Vacuum Pump features two pumps in one package: a 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; this is followed by a high efficiency diaphragm pump, delivering a powerful, non-fluctuating vacuum for fast, smooth drying, which acts as the primary vacuum source. The pump is so efficient, one GelMaster™ can be connected to three gel dryers simultaneously. It's 1.5L capacity allows between 10-15 gels to be dried before the trap needs to be drained. The GelMaster™ trapping medium can be used repeatedly.

Ordering Information

CSL-GDVH	Midi Gel Dryer 220V, 21 x 31 cm	CSL-GDVH35	Maxi Gel Dryer 220V, 35 x 45 cm
CSL-S2131	Replacement Silicon Rubber, Midi	CSL-S3545	Replacement Silicon Rubber, Maxi
CSL-M2131	Replacement Supporting Mask, Midi	CSL-M3545	Replacement Supporting Mask, Maxi
CSL-PUMP	Gelmaster Vacuum Pump		
CSL-TRAP	Replacement Trapping fluid for Gelmaster	CSL-FLUSH	Replacement flushing fluid for Gelmaster

For 110 V AC, please add '-S' as a suffix to the appropriate code

- Inactivates nucleic acids in 5 to 30 minutes
- Doors fitted with safety switches
- Complete with four powerful, timer controlled UV bulbs
- Efficient decontamination of the complete work surface
- Suitable for work with ³²P

Technical Specifications

UV Lights	Maxi	Four x 15 Watt
	Mini	Two x 15 Watt
White Light	Maxi	15 Watt
	Mini	15 Watt
Dimensions	Maxi	660 (H) x 560 (W) x 420mm (D)
	Mini	400 (H) x 560 (W) x 350mm (D)
Weight	Maxi	19 Kg
	Mini	12 Kg

UV STERILISATION CABINETS

These UV Sterilisation Cabinets provide a convenient area for setting up PCR reactions in a nucleic acid free environment thus limiting PCR reaction contamination.

Acting effectively as a low cost alternative to a clean room, the powerful UV lights on the cabinets denature nucleic acids in 5 to 30 minutes making them unsuitable for amplification. The cabinet incorporates safety features to prevent user exposure to UV light.

The UV lights themselves are timer controlled and there are safety switches on the cabinets doors which turn off the UV lights when opened.

The cabinets also act as an efficient shield of beta radioactive emissions and can therefore be safely used with isotopes such as ³²P.

The white light provides excellent visibility when working within the cabinets.

For use with trays of size 68 x 54cm, CSR-TW4/TY4/TL4.

The new Mini UV Cabinet has been designed for limited budget and space requirements.



Ordering Information

CSL-UVCAB	UV PCR Cabinet	CSR-TW4	Safety SpillTray, White
CSL-UVCABMINI	UV PCR Cabinet Mini	CSR-TY4	Safety SpillTray, Yellow
CSL-UVTUBE	Replacement UV fluorescent tube	CSR-TL4	Safety Tray Liners, APET, pk/25
CSL-WHITETUBE	Replacement White fluorescent tube		

For 110 V AC, please add '-S' as a suffix to the appropriate code

Gel Documentation

microDOC

- 8.0 mega pixel digital camera
- Image is viewed from a 5.7" TFT colour monitor
- Light weight compact hood with easy access door and inner built in lights
- Can be used computer free
- Safety door switch
- Includes flash card, flash card reader and Ethidium bromide filter

microDOC is a simple, inexpensive and ultra compact gel documentation system. It contains a 16 bit CCD digital camera with a superb resolution of 8.0 mega pixels. For added convenience, limited space and budget requirements, microDOC can be used computer free. The image is viewed from a large 5.6" TFT colour liquid crystal display. A variety of images can be captured from agarose and other fluorescent gels, colorimetric gels, auto radiography film, and blotting membranes. The system is fitted with a 55mm ethidium bromide filter and has a safety switch to turn off the UV Transilluminator when the door is opened. Files can be saved in a variety of formats for transfer to computer systems for storage and analysis. microDOC can be directly connected to a thermal printer - CSL-PRINT - or to many other commercially available printers.



Complete range of gel documentation, chemiluminescent and fluorescent systems available, please inquire



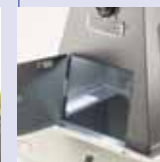
easily lifted on and off transilluminator



high resolution 8Mb digital camera



separate power and light switches



internal illumination when door is open

Technical Specifications

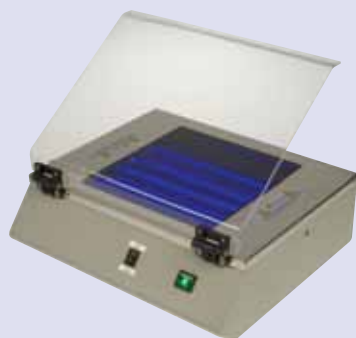
Camera:	
Effective pixels:	8.0 million
CCD:	2/3" high-density CCD; total pixels 8.31 million
Max field of view:	29 x 22 cm
Image resolution:	640 x 480 up to 3,264 x 8 x optical zoom 8.9~71.2 mm
F / -number:	f/2.8~f/4.2
File formats:	RAW, TIFF-RGB, JPEG;
Auto focus:	Contract-detect through-the-lens (TTL) AF with AF-assist illuminator.
Focus-area selection:	Five-area multi AF, manual selection available
Filter:	55 mm Ethidium Bromide
Hood:	
Multi power source:	For camera, inner light lamp, TFT screen
Inner white lamp x 2 tubes	
Safety door switch:	Shuts down UV transilluminator when the door is opened
5.7" TFT liquid crystal screen	
Display format:	960 x 234 mm
Luminance:	250 cd/mm
Display mode:	NTSC/PAL mode switchable Video and audio input
Hood dimension:	290 x 220 x 320mm (WxDxH)

Ordering Information

CSL-MICRODOC	microDOC System, including 8.0 mega pixel digital camera, camera adaptor, 5.7" TFT colour screen, EtBr filter, camera hood		
CSL-MDOCEB	Ethidium Bromide filter		
CSL-MDOCSBRG	SyBr Green Filter	CSL-PRT PAP	Replacement paper for thermal printer.
CSL-PRINT	Thermal Printer	CSL-UVSCRN	UV to white light Transilluminator screen converter

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UV TRANSILLUMINATORS



These UV Transilluminators are multitasking workstations which offer an ultra-violet source for the analysis of fluorescently stained DNA, RNA, and Protein electrophoresis gels. These also offer space to place tube racks, cutting tools or waste agarose gel, ideal when there is a need to cut bands.

These new generation UV transilluminators include a specially designed safety UV leakage indicator which changes colour when UV light is detected. Each model includes a High Low intensity switch. A new and high quality starter ensures that the UV tubes energise immediately and without flickering. This feature extends the life of the tubes. Two Dual wavelength models offer added flexibility and convenience.

- Three wavelength options: 254/312/365 nm - two Dual wavelength models
- Long life filter
- High efficiency reflector
- Hi / Lo intensity switch
- Fast start up

Technical Specifications

Filter size	20 x 20 cm
Light source:	8W x 6 tubes
UV resistant plastic cover:	33 x 25cm (WxD)
Unit Dimensions WxLxH	34 x 29.5 x 10cm

Ordering Information

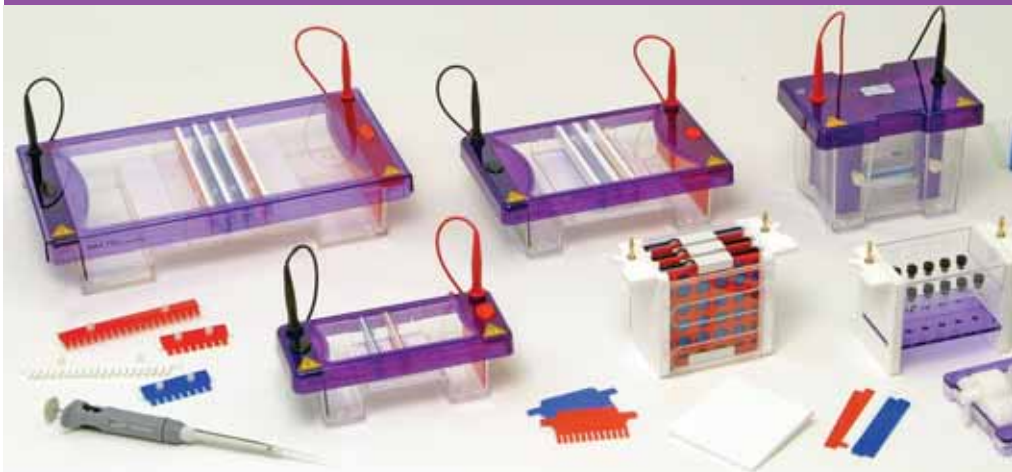
CSL-UVTS312	UV Transilluminator small, 20 x 20 cm, 312 nm	Replacement Parts	CSL-T365	8W 365 nm UV bulb	
CSL-UVTS254	UV Transilluminator small, 20 x 20 cm, 254/365 nm	CSL-T254	8W 254 nm UV bulb	CSL-F	20 x 20 cm filter
CSL-UVTS254312	UV Transilluminator small, 20 x 20 cm, 254/312 nm	CSL-T312	8W 312 nm UV bulb	CSL-C	UV protected cover

For 110 V AC, please add '-S' as a suffix to the appropriate code



Radiation shielding catalogue available, please inquire

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- COMET assay page 9
- horizontal gel accessories page 10
- cellulose acetate system page 11
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mini, mini wide and maxi
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