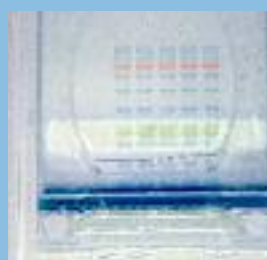
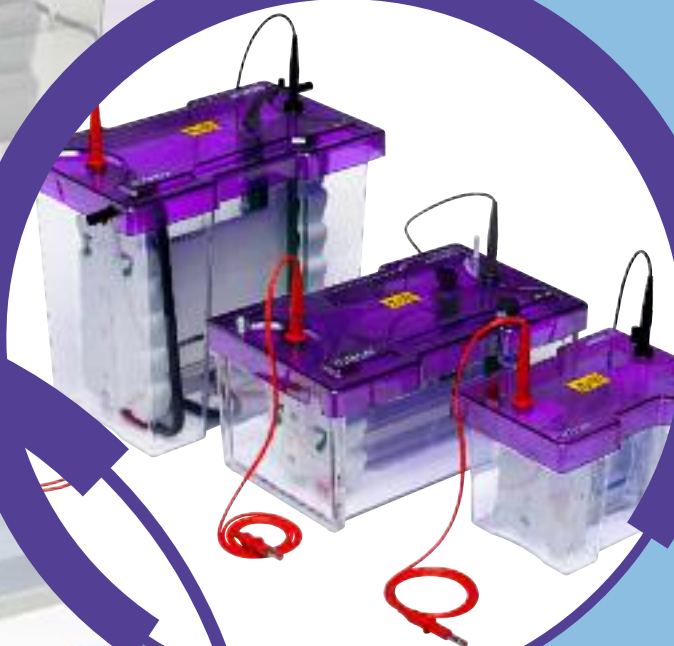




ELECTROPHORESIS

Vertical gel systems



- 3 tank sizes with a wide range of sample combs and pre-cast gel compatibility
- Durable **Injection moulded** construction for leak-proof environment
- Designed & manufactured in **United Kingdom**

Vertical Gel Systems

SELECTION GUIDE



	OMNIPAGE MINI SYSTEM	OMNIPAGE MINI WIDE SYSTEM
	<ul style="list-style-type: none"> Run 1-4 handcast gels, and up to 2 precast gels in mini format Sliding clamp assembly ensures fast set up times and leak-free operation Insert for both gel casting and running eliminating time-consuming transfer of fragile gels Modular design for rapid turnaround of data, allowing PAGE, 2-D and blotting to be completed within a working day 	<ul style="list-style-type: none"> Mini wide format effectively allows 2 mini gels to be compared within a single gel for gel-to-gel reproducibility Run 1-2 handcast gels; perfect for users with >20 samples to compare and resolve Even pressure screw system prevents gel leakage Combine pI (isoelectric point) separation with speed by resolving 2x 7cm IPG strips or 2x 8cm capillary tube gels per gel using special 2-D gel combs and plates Ability to perform three techniques in a day: IEF, PAGE and blotting
Unit Dimensions (w x l x h)	19 x 13 x 15cm	26 x 16 x 16cm
Active Gel Dimensions (w x l)	8 x 8.5cm	18 x 8cm
Sample Capacity	PAGE: 80 samples, 20/gel Blot: 4 blots 2D: 10 tubes	PAGE: 192 samples, 48/gel Blot: 4 blots 2D: 10 tubes
Tank Buffer Volume	Min 250ml; Max 1200ml	Min 600ml; Max 2800ml
Compatible Gel Formats		
Precast	Commercial 10x10cm and 10x8cm (W x H) precast gels: e.g. IDGel™, SERVA, Thermo and Invitrogen, etc.	
Handcast	OmniPAGE VS10 glass plates with or without bonded spacers for handcast gels	VS10W plain and notched glass plates with or without bonded spacers for handcast gels
Compatible Electrophoresis Transfer Systems Integrated modular	OmniPAGE Mini CVS10CBS, CVS10CBS-HI and CVS10CES	OmniPAGE Mini Wide VS10WCBS and VS10WCES
Standalone Wet/tank transfer	SB10 and EBM10, 4- and 5-blot transfer systems	SB10W and EBM20, 4- and 5-blot transfer systems
Semi-dry	SD10 10x10cm and SD20 20x20cm for 1x and 4x blots	SD20 20x20cm for 2x blots
Electrophoresis System		
• Standard	2-gel systems (can run 4 gels)	2-gel system (can run 4 gels)
• Precast (tank, lid and running insert only)	CVS10PRE	
• TapeCast (includes glass plates)	CVS10D	VS10WD
• Handcast (with glass plates and caster)	CVS10DSYS	VS10WDSYS
(with extra casting stand and plates to run 2 gels in tank, while casting 2 simultaneously)	CVS10DSYS-CU	VS10WDSYS-CU



VS20WAVE MAXI SYSTEM

- Runs 1-4 large format gels at maximum resolution
- Fewer screws compared to traditional formats resulting in rapid set up times
- Optional blotting insert
- Detachable cooling core for fast, smile-free electrophoresis
- Seamless injection moulded construction free of potential leakage-prone glue joins
- Capacity to run 1-4 18cm capillary tube gels or IPG strips in second dimension; optional 2-D module

30 x 18 x 27cm

16 x 17.5cm

PAGE: 192 samples, 48/gel
Blot: 4x WAVE gels
2D: 10 tubes

Min 1200ml; Max 5300ml

VS20 plain and notched glass plates with or without bonded spacers for handcast gels

Maxi WAVE VS20CBS, VVS20CBS-HI and VS20WAVECES

SB20 and EBM20, 4- and 5-blot transfer systems

SD20 20x20cm

2-gel system (can run 4 gels)

VS20WAVED

VS20WAVESYS

VS20WAVESYS-CU



VS30 MAXI-PLUS SYSTEM

- Ideal for second-dimension electrophoresis
- Accepts IPG strips 24cm in length, the longest available commercially
- Rapid set-up cool packs enhance resolution, particularly during extended runs

36 x 33 x 18cm

28 x 20cm

PAGE: 300 samples, 75/gel
Blot: 4 x Maxi Plus gels

Min 1800ml; Max 8400ml

VS30 plain and notched glass plates with or without bonded spacers for handcast gels

Maxi Plus VS30CBS

SD33 33x45cm, and SD50 20x50cm *

2-gel system (can run 4 gels)

VS30D

VS30DSYS

*Manufactured to order

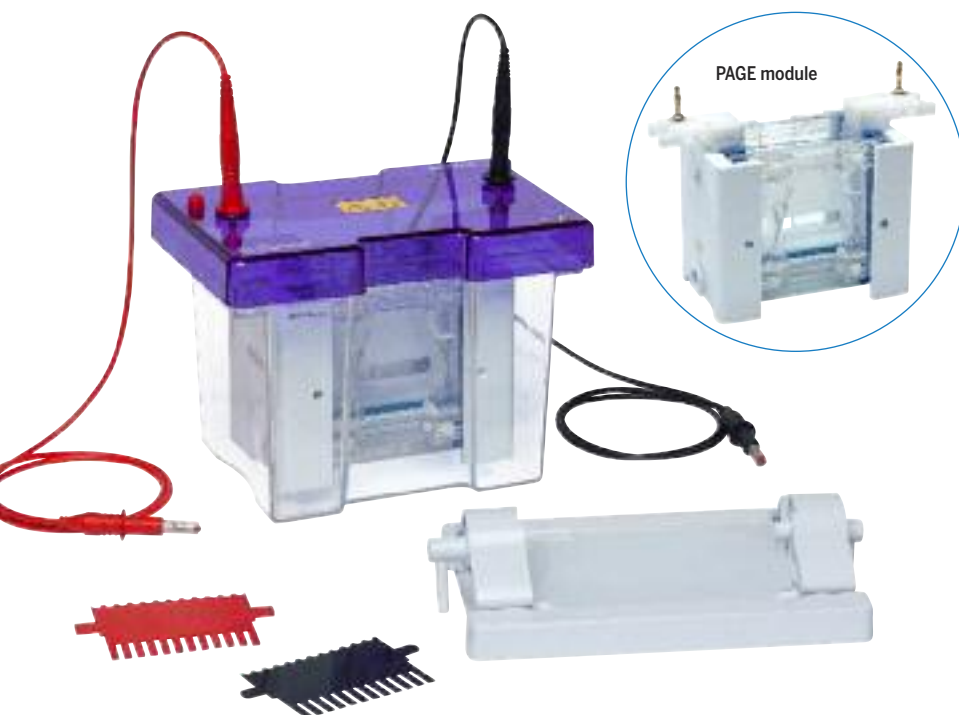
omniPAGE Mini

The perfect unit for routine vertical electrophoresis using pre-cast or hand-cast gels. The omniPAGE MINI features injection moulded construction for leak proof running, and a simple clamp system to ensure a tight seal between buffer chambers to prevent current leakage.

Gel casting and running is done using the same internal module, no transfer of glass plates during gel casting is necessary. The module features unique sliding gates, to allow 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 minimise breakage and have bonded spacers for convenience.

MINI TETRAD

A 4-gel TETRAD system is created by simply introducing additional plates with spacers and appropriate combs. TETRAD is supplied with a casting base and external casting upstand to allow gels to be prepared in advance, ready for the next run.

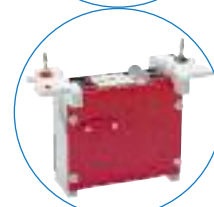


interchangeable modules

Electroblotting Module – Complete with Platinum wire electrodes, 4 blotting cassettes and fibre pads to aid compression, this insert fits neatly into the omniPAGE Mini tank for Western Blotting.



High Intensity Electroblotting Module – with 2 blotting cassettes and Platinum plate electrodes, the high intensity blotting module allows fast transfer of proteins to membranes with excellent time savings.



Capillary IEF Module - the Tube Gel Module includes a rapid release gasket for easy tube extraction. Focusing can be accomplished in as little as three hours.



KEY FEATURES

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

- 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 in tetrad model



For vertical package deals

ORDERING INFORMATION

CVS10D	omniPAGE Mini, 10 x 10cm includes Glass Plates with bonded 1mm thick spacers, 2x 12 sample combs, cooling pack, blanking plate		
CVS10DSYS	omniPAGE Mini, 10 x 10cm includes Glass Plates with bonded 1mm thick spacers, 2x 12 sample combs, cooling pack, blanking plate and casting base		
CVS10DSYS-CU	omniPAGE Mini, 10 x 10cm incl. Glass Plates with bonded 1mm thick spacers, 2x 12 sample combs, cooling pack, blanking plate, casting base and casting upstand		
CVS10TETRAD	omniPAGE Mini, 10 x 10cm incl. Glass Plates with bonded 1mm thick spacers, 2x 12 sample combs, cooling pack, blanking plate, casting base and casting upstand PLUS 2x additional 1mm 12-sample combs, 1x pk/2 plain glass plates with 1mm spacers, 1x pk/2 notched glass plates and 2x pk/2 notched glass plates with 1mm spacers		
CVS10PRE	omniPAGE Mini, 10 x 10cm includes blanking plate, cooling pack		
VS10DCAST	10 x 10cm Casting Base	VS10NGS1.5	10 x 10cm Notched Glass Plates with 1.5mm Bonded Spacers (pk/2)
VS10DCASTM	Replacement Silicone Mat for 10 x 10cm Casting Base	VS10PGS1.5	10 x 10cm Plain Glass Plates with 1.5mm Bonded Spacers (pk/2)
CVS10DIRM	Inner Running Module, with Sliding Clamps or Screw Clamps	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)
VS10NG	10 x 10cm Notched Glass Plates 2mm thick (pk/2)	VS10DP	Blanking Plate, 10 x 10cm
VS10PG	10 x 10cm Plain Glass Plates 2mm thick (pk/2)	VS10S0.75	10cm Spacers - 0.75mm (pk/2)
VS10NGS0.75	10 x 10cm Notched Glass Plates with 0.75mm Bonded Spacers (pk/2)	VS10S1	10cm Spacers - 1mm thick (pk/2)
VS10PGS0.75	10 x 10cm Plain Glass Plates with 0.75mm Bonded Spacers (pk/2)	VS10S1.5	10cm Spacers - 1.5mm thick (pk/2)
VS10NGS1	10 x 10cm Notched Glass Plates with 1mm Bonded Spacers (pk/2)	VS10S2	10cm Spacers - 2mm thick (pk/2)
VS10PGS1	10 x 10cm Plain Glass Plates with 1mm Bonded Spacers (pk/2)		

simple, rapid, leak-proof gel casting....

Dual purpose PAGE module eliminates time-consuming transfer of glass plates between separate casting and running

Ground glass plates with bonded injection moulded spacers consistent with comb thickness ensure 'clean' well formation, as well as the correct alignment for leak-free casting; also eliminate the need for easily mislaid and awkward to use spacer aligners

Very forgiving, ultra-soft silicone mat within cam-caster compensates for glass plate misalignment to ensure leak-free casting



Insert glass plates between pressure frame and gasket



Slide gates to make efficient seal



Transfer to casting base and tighten cams



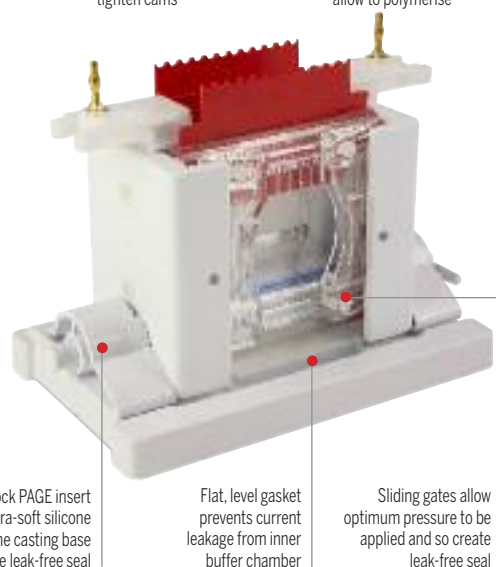
Insert gel solution and comb and allow to polymerise



Transfer to tank and fill with buffer



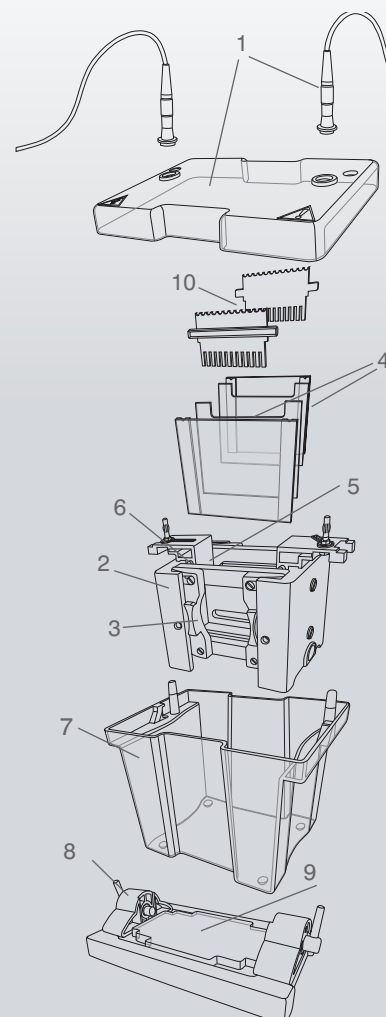
Load samples using Loading Guides and run



Cam pins lock PAGE insert onto the ultra-soft silicone mat within the casting base to provide leak-free seal

Flat, level gasket prevents current leakage from inner buffer chamber

Sliding gates allow optimum pressure to be applied and so create leak-free seal



Mini component parts

- | | |
|-------------------------|---------------------------|
| 1. Lid and power cables | 6. Gasket |
| 2. PAGE insert | 7. Outer tank |
| 3. Sliding clamps | 8. Cam-pin caster |
| 4. Glass plates | 9. Ultra-soft casting mat |
| 5. Inner buffer chamber | 10. Combs |

Colour	CODE	DESCRIPTION	SAMPLE VOLUME PER WELL
Black	VS10-1-0.75	Comb 1 Prep. 1 Marker, 0.75mm thick	500µl
	VS10-5-0.75	Comb 5 sample, 0.75mm thick	70µl
	VS10-8MC-0.75	Comb 8 sample MC, 0.75mm thick	40µl
	VS10-9-0.75	Comb 9 sample, 0.75mm thick	35µl
	VS10-10-0.75	Comb 10 sample, 0.75mm thick	30µl
	VS10-12-0.75	Comb 12 sample, 0.75mm thick	25µl
	VS10-16MC-0.75	Comb 16 sample MC, 0.75mm thick	20µl
White	VS10-20-0.75	Comb 20 sample, 0.75mm thick	15µl
	VS10-1-1	Comb 1 Prep. 1 Marker, 1mm thick	650µl
	VS10-5-1	Comb 5 sample, 1mm thick	100µl
	VS10-8MC-1	Comb 8 sample MC, 1mm thick	60µl
	VS10-9-1	Comb 9 sample, 1mm thick	50µl
	VS10-10-1	Comb 10 sample, 1mm thick	40µl
	VS10-12-1	Comb 12 sample, 1mm thick	35µl
	VS10-16MC-1	Comb 16 sample MC, 1mm thick	25µl
	VS10-20-1	Comb 20 sample, 1mm thick	20µl

Colour	CODE	DESCRIPTION	SAMPLE VOLUME PER WELL
Red	VS10-1-1.5	Comb 1 Prep. 1 Marker, 1.5mm thick	1000µl
	VS10-5-1.5	Comb 5 sample, 1.5mm thick	140µl
	VS10-8MC-1.5	Comb 8 sample MC, 1.5mm thick	80µl
	VS10-9-1.5	Comb 9 sample, 1.5mm thick	70µl
	VS10-10-1.5	Comb 10 sample, 1.5mm thick	30µl
	VS10-12-1.5	Comb 12 sample, 1.5mm thick	50µl
	VS10-16MC-1.5	Comb 16 sample MC, 1.5mm thick	40µl
Blue	VS10-20-1.5	Comb 20 sample, 1.5mm thick	30µl
	VS10-1-2	Comb 1 Prep. 1 Marker, 2mm thick	1300µl
	VS10-5-2	Comb 5 sample, 2mm thick	200µl
	VS10-8MC-2	Comb 8 sample MC, 2mm thick	120µl
	VS10-9-2	Comb 9 sample, 2mm thick	100µl
	VS10-10-2	Comb 10 sample, 2mm thick	80µl
	VS10-12-2	Comb 12 sample, 2mm thick	70µl
	VS10-16MC-2	Comb 16 sample MC, 2mm thick	50µl
	VS10-20-2	Comb 20 sample, 2mm thick	40µl

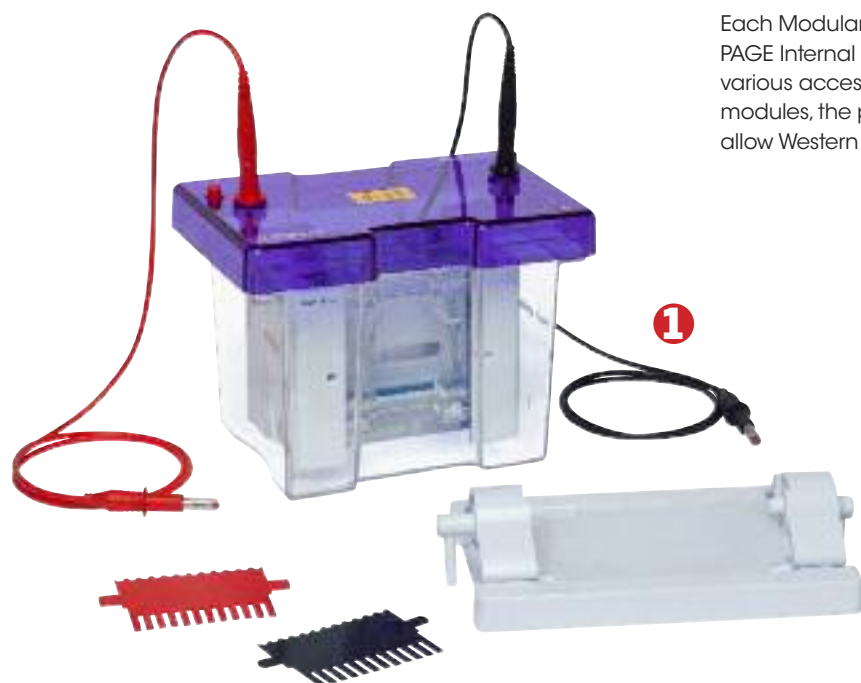
MC = multichannel pipette compatible



omniPAGE Mini Modular Systems

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 modules are interchangeable for PAGE, tube gel and electroblotting techniques.

Each Modular System comprises the Gel Chamber, PAGE Internal Running Module, Casting Base and various accessories. Through the addition of further modules, the packages flexibility is increased to allow Western blotting and Capillary IEF techniques.



Capillary IEF module,
VS10DCI



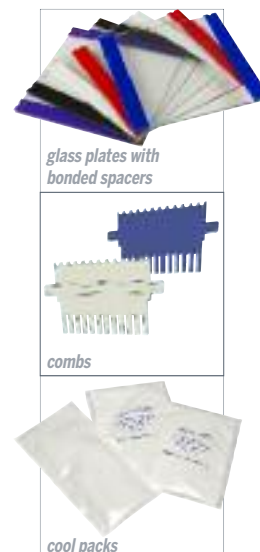
Western Blotting module,
VS10BI



Hi-Intensity Blotting module,
VS10BI-HI



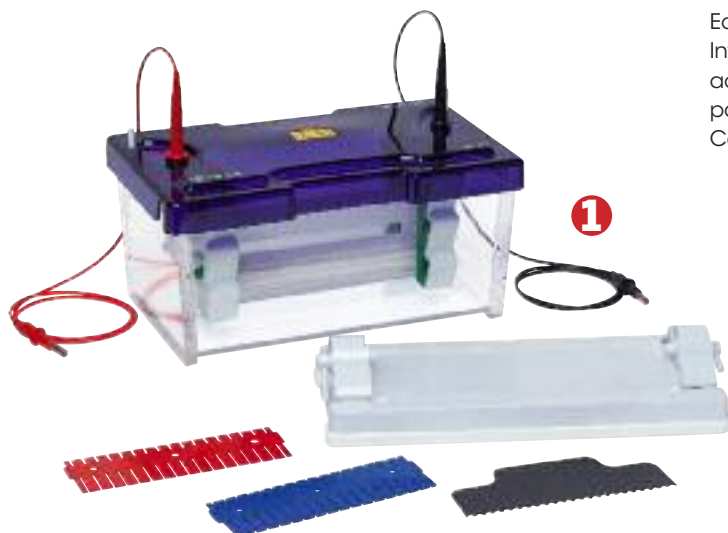
ACCESSORIES



ORDERING INFORMATION

CVS10CES	Complete Mini (10x10cm) Vertical Electrophoresis Modular System , comprising: 1x Mini Vertical Unit, CVS10DSYS (1) which includes: PAGE Module, 2x2mm thick notched glass plates, 2x2mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 12 samples), 1x casting base, silicone mat, cooling pack plus: 1x Capillary Electrophoresis Module, VS10DCI (2) and 1x Electroblotting Module, VS10BI (3) comprising: internal electroblotting module, 4x compression cassettes for gel sizes up to 10x10cm and 8x fibre pads			
CVS10C2DS	Complete Mini (10 x 10cm) Vertical Electrophoresis & 2-D System , comprising: 1x Mini Vertical Unit, CVS10DSYS (1) which includes: PAGE Module, 2x2mm thick notched glass plates, 2x2mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 12 samples), 1x casting base, silicone mat, cooling pack plus: 1x Capillary Electrophoresis Module, VS10DCI (2)			
CVS10CBS	Complete Mini (10 x 10cm) Vertical Electrophoresis & Blotting System , comprising: 1x Mini Vertical Unit, CVS10DSYS (1) which includes: PAGE Module, 2x2mm thick notched glass plates, 2x2mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 12 samples), 1x casting base, silicone mat, cooling pack plus 1x Standard Electroblotting Module, VS10BI (3)			
CVS10CBS-HI	Complete Mini (10 x 10cm) Vertical Electrophoresis & High Intensity Blotting System , comprising: 1x Mini Vertical Unit, CVS10DSYS (1) which includes: PAGE Module, 2x2mm thick notched glass plates, 2x2mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 12 samples), 1x casting base, silicone mat, cooling pack plus: 1x High Intensity Electroblotting Module, VS10BI-HI (4)			
VS10DCI	omniPAGE Mini Tube Unit (2)	VS10BI-HI	High Intensity omniPAGE Blot Mini insert - includes 2 cassettes and 8 fibre pads (4)	
VS10BI	OmniBlot Mini Insert - including 4 cassettes, 16 foam pads (3)	SB10	omniBlot Mini 10 x 10cm Blotting System	

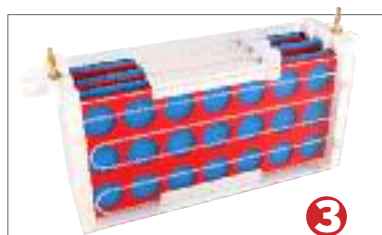
Mini wide vertical gel unit, with a gel width of 20cm, effectively allows double the number of samples to be resolved as the mini unit. This allows consistency of sample comparison on a single gel and is designed for those with greater than 20 samples to compare and resolve. Simple set up using ultra soft silicone seals guarantees trouble free glass plate loading and gel casting.



Each Modular System comprises the Gel Chamber, PAGE Internal Running Module, Casting Base and various accessories. Through the addition of further modules, the packages flexibility is increased to allow Western blotting and Capillary IEF.



Capillary IEF module, VS10WDCI

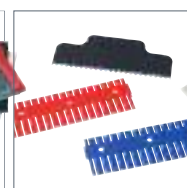


Western Blotting module, VS10WBI

ACCESSORIES



glass plates with bonded spacers



combs



cool packs

ORDERING INFORMATION

VS10WD	Mini Wide, 20 x 10cm Dual , 2 sets of Glass Plates with 1mm thick bonded Spacers, 2 x 24 sample, 1mm thick combs, cooling pack		
VS10WDSYS	Mini Wide, 20 x 10cm Dual , 2 sets of Glass Plates with 1mm thick bonded Spacers, 2 x 24 sample, 1mm thick combs, cooling pack 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 RigRunner V-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	Blanking Plate, 20 x 10cm
VS10WPG	20 x 10cm Plain Glass Plates 4mm thick (pk/2)	RPW-0.2100	Replacement Platinum Wire - 0.2mm, 50cm
VS10WNGS0.75	20 x 10cm Notched Glass Plates with 0.75mm Bonded Spacers (pk/2)	VS20ICB	Cooling Pack
VS10WPGS0.75	20 x 10cm Plain Glass Plates with 0.75mm Bonded Spacers (pk/2)		
SB10W	Mini Wide Blot Unit, 20 x 10cm System including tank and lid, 4 cassettes, 8 fibre pads, cooling pack	VS10WDC	Mini Wide Tube Gel Unit, 20x10cm with tank and lid, glass capillary tubes, blanking ports and cooling pack
VS10WBI	Mini Wide Blot Module - includes 4 cassettes and 8 fibre pads	VS10WDCI	Mini Wide Tube Gel Module - includes glass tubes and blanking ports
SB10WC	Mini Wide Blot Cassette	MCT10	Mini Capillary Tubes, pk/100
SB10WF	Fibre pads - pk/8	MCT101.5	Mini Capillary Tubes, 1.5mm, pk/100
VS10WCES	Complete Mini Wide (20x10cm) Vertical Electrophoresis Modular System , comprising: 1x Mini Wide Vertical Unit, VS10WDSYS (1) which includes: PAGE Module, 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 24 samples), 1x casting base, silicone mat, cooling pack plus: 1x Wide Electrophoresis Module, VS10WBI (3) 1x Wide Capillary Electrophoresis Module, VS10WDCI (2)		
VS10WCBS	Complete Mini Wide (20 x 10cm) Vertical Electrophoresis & Blotting System , comprising: 1x Mini Wide Vertical Unit, VS10WDSYS (1) which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 24 samples), 1x casting base, silicone mat, cooling pack plus: 1x Wide Electrophoresis Module, VS10WBI (3)		
VS10WC2DS	Complete Mini Wide (20x10cm) 2-D System , comprising: 1x Mini Wide Vertical Unit, VS10WDSYS (1) which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 24 samples), 1x casting base, silicone mat, cooling pack plus: 1x Wide Capillary Electrophoresis Module, VS10WDCI (3)		

omniPAGE **Maxi** *Wave*

The Maxi 'WAVE' System is designed to perform a variety of separations, including first- and second-dimension SDS-PAGE, native, preparative, gradient and high-resolution nucleic acid electrophoresis, plus capillary tube gel IEF and electroblotting, the Maxi WAVE is one of the most versatile maxi vertical systems available.

The innovative, vertical screw-clamp system within the PAGE insert requires only four screws to secure up to four 20x20cm gels. This gives the Maxi WAVE the advantage of a much faster set up time compared to products whose traditional clamping configurations require as many as 24 screws to secure just two glass plates. In addition, the WAVE's innovative vertical screw-clamp configuration distributes pressure evenly along the height of the gel rather than in the centre to eliminate plate bowing and gel compression. This still maintains a leak-proof seal during casting; while the ergonomic wave-like design of the PAGE insert aids both handling and set up.

A detachable inner cooling coil connects to the laboratory water supply or a recirculating chiller to provide uniform, smile-free electrophoresis, while allowing runs to be performed at higher voltage.

MAXI WAVE TETRAD

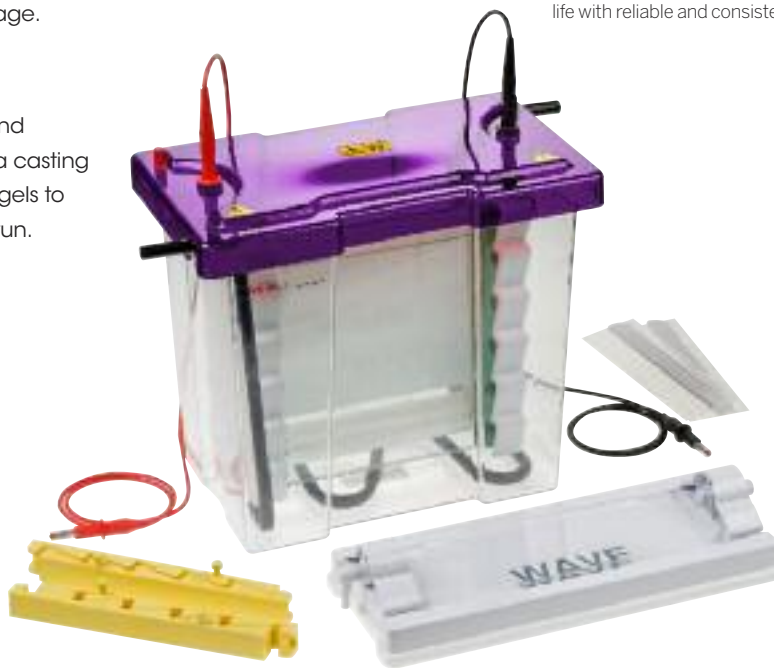
A 4-gel TETRAD system is created by simply introducing additional plates with spacers and appropriate combs. TETRAD is supplied with a casting base and external casting upstand to allow gels to be prepared in advance, ready for the next run.

KEY FEATURES

- Run up to FOUR gels simultaneously [TETRAD systems]
- Only four screws required to secure glass plates - significantly reduces set up time
- Vertical screw-clamps distribute pressure evenly along the height of the gel to prevent plate bowing and gel compression
- Detachable inner cooling coil facilitates rapid and uniform, smile-free electrophoresis, even at higher voltages
- Injection moulded construction guarantees long life with reliable and consistent performance



External Casting Upstand is basically a standard internal module but without Platinum wire



ORDERING INFORMATION

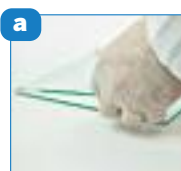
VS20WAVESYS	Maxi WAVE, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2x 24 sample combs, cooling pack, dummy plate and casting base		
VS20WAVESYS-CU	Maxi WAVE, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2x 24 sample combs, cooling pack, dummy plate, casting base and external casting upstand		
VS20WAVETETRAD1	Maxi WAVE, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2x 24 sample combs, cooling pack, dummy plate, casting base and external casting upstand, PLUS 2x pks/2 notched glass plates with 1mm bonded spacers and 2x 1mm 24-sample combs		
VS20WAVE-EC	VS20 WAVE External Casting Stand - No Casting Base	VS20PGS1	20 x 20cm Plain Glass Plates with 1mm Bonded Spacers (pk/2)
VS20WAVEDIRM	VS20WAVE Page insert	VS20PGS1.5	20 x 20cm Plain Glass Plates with 1.5mm Bonded Spacers (pk/2)
VS20WAVE-CC	Detachable Cooling Coil	VS20PGS2	20 x 20cm Plain Glass Plates with 2mm Bonded Spacers (pk/2)
VS20DCAST	V-Maxi WAVE, 20 x 20cm Dual Caster	VS20DP	Dummy Plate, 20 x 20cm
VS20DCASTM	Replacement Rubber mats for 20 x 20cm caster	VS20S0.75	20cm Spacers - 0.75mm (pk/2)
VS20ICB	Maxi Cooling Pack	VS20S1	20cm Spacers - 1mm thick (pk/2)
VS20-x-LG	Loading guides for V-Maxi WAVE maxi combs, x = comb well number	VS20S1.5	20cm Spacers - 1.5mm thick (pk/2)
VS20NG	20 x 20cm Notched Glass Plates 4mm thick (pk/2)	VS20S2	20cm Spacers - 2mm thick (pk/2)
VS20PG	20 x 20cm Plain Glass Plates 4mm thick (pk/2)	VS20WAVE-IEFKIT	IEF Conversion for 18cm IPG strips and tube gels, includes: 1 set of plain glass plates with bonded spacers, 0.6x20cm (WxH); and 2x 2-D combs with one 3.5mm marker lane and one 18cm preparatory well
VS20NGS0.75	20 x 20cm Notched Glass Plates with 0.75mm Bonded Spacers (pk/2)		
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)		

Gel Casting

Dual purpose PAGE insert eliminates time-consuming transfer of glass plates between separate casting and running modules

Ground glass plates with bonded injection moulded spacers consistent with comb thickness ensure 'clean' well formation, as well as the correct alignment for leak-free casting; also eliminate the need for easily mislaid and awkward to use spacer aligners

Very forgiving, ultra-soft silicone mat within cam-caster compensates for glass plate misalignment to ensure leak-free casting



Assemble each gel cassette on a flat level surface, by placing the plain glass plate down with the spacers facing upwards followed by the notched glass plate.



Loosen the vertical screwpins in the PAGE insert to release the locking mechanism, allowing the gel clamps to sit in the resting slots.



Insert a gel cassette into each side of the inner buffer chamber in the PAGE insert, and begin tightening the vertical screw-pins.



Continue to tighten the screw-pins until the gel clamps glide out of the resting slots and fix firmly against the glass plates pushing them upright.



Check the bottom of the glass plates to ensure that they are flush together, and place the PAGE insert on the casting base; make sure that the cams are facing downwards.



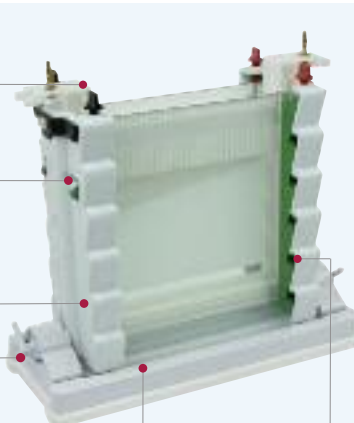
Insert cams and turn until tight, drawing the PAGE insert onto the casting to form a leak-proof seal.

Vertical screw-pins, colour-coded to prevent polarity reversal, push the gel clamps out of the resting slots to secure glass plates firmly within the PAGE insert

Resting slots allow the gel clamps to sit conveniently out of the way, to aid hindrance-free loading of the cassettes into the PAGE insert

Ergonomic 'wave' design of PAGE insert provides convenient finger grips for easy handling

Cam pins lock PAGE insert onto the ultra-soft silicone mat within the casting base to provide leak-free seal



Flat, level gasket prevents current leakage from inner buffer chamber

Sliding gel clamps available in two thicknesses to accommodate single- and double-gel cassettes



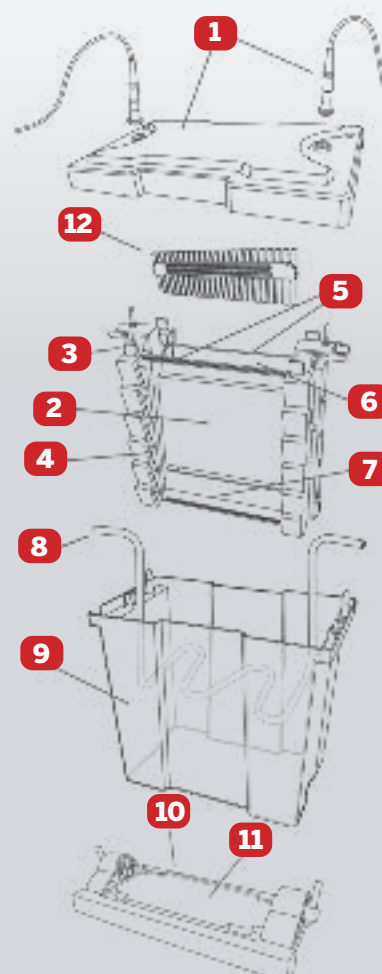
Pour in the gel solution, insert the combs and allow the wells to polymerise.



Transfer the PAGE insert to gel the tank. Fill the inner and outer buffer chambers before loading samples.



Replace the lid, connect to the power supply and run.



Maxi WAVE component parts

1. Lid and power cables
2. PAGE insert
3. Vertical screw-pin
4. Clamping bars
5. Glass plates
6. Inner buffer chamber
7. Gasket
8. Detachable cooling coil
9. Outer tank
10. Cam-pin caster
11. Ultra-soft casting mat
12. Combs

Colour	CODE	DESCRIPTION	SAMPLE VOLUME PER WELL
Black	VS20-1-0.75	Comb 1 Prep, 1 Marker, 0.75mm thick	1100µl
	VS20-5-0.75	Comb 5 sample, 0.75mm thick	160µl
	VS20-10-0.75	Comb 10 sample, 0.75mm thick	80µl
	VS20-18MC-0.75	Comb 18 sample MC, 0.75mm thick	40µl
	VS20-24-0.75	Comb 24 sample, 0.75mm thick	30µl
	VS20-30-0.75	Comb 30 sample, 0.75mm thick	25µl
	VS20-36MC-0.75	Comb 36 sample MC, 0.75mm thick	20µl
White	VS20-48-0.75	Comb 48 sample, 0.75mm thick	15µl
	VS20-1-1	Comb 1 Prep, 1 Marker, 1mm thick	1500µl
	VS20-5-1	Comb 5 sample, 1mm thick	200µl
	VS20-10-1	Comb 10 sample, 1mm thick	100µl
	VS20-18MC-1	Comb 18 sample MC, 1mm thick	50µl
	VS20-24-1	Comb 24 sample, 1mm thick	40µl
	VS20-30-1	Comb 30 sample, 1mm thick	35µl
Blue	VS20-36MC-1	Comb 36 sample MC, 1mm thick	25µl
	VS20-48-1	Comb 48 sample, 1mm thick	20µl

Colour	CODE	DESCRIPTION	SAMPLE VOLUME PER WELL
Red	VS20-1-1.5	Comb 1 Prep, 1 Marker, 1.5mm thick	2200µl
	VS20-5-1.5	Comb 5 sample, 1.5mm thick	320µl
	VS20-10-1.5	Comb 10 sample, 1.5mm thick	160µl
	VS20-18MC-1.5	Comb 18 sample MC, 1.5mm thick	80µl
	VS20-24-1.5	Comb 24 sample, 1.5mm thick	60µl
	VS20-30-1.5	Comb 30 sample, 1.5mm thick	50µl
	VS20-36MC-1.5	Comb 36 sample MC, 1.5mm thick	40µl
Blue	VS20-48-1.5	Comb 48 sample, 1.5mm thick	30µl
	VS20-1-2	Comb 1 Prep, 1 Marker, 2mm thick	3000µl
Blue	VS20-5-2	Comb 5 sample, 2mm thick	400µl
	VS20-10-2	Comb 10 sample, 2mm thick	200µl
	VS20-18MC-2	Comb 18 sample MC, 2mm thick	100µl
	VS20-24-2	Comb 24 sample, 2mm thick	80µl
	VS20-30-2	Comb 30 sample, 2mm thick	70µl
	VS20-36MC-2	Comb 36 sample MC, 2mm thick	50µl
	VS20-48-2	Comb 48 sample, 2mm thick	40µl



omniPAGE

Maxi

Wave

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 PAGE, tube gel and electroblotting techniques.

Each Modular System comprises the Gel Chamber, PAGE Internal Running Module, Casting Base and various accessories. Through the addition of further modules, the packages flexibility is increased to allow Western blotting and Capillary IEF.



1

Capillary IEF module, VS20DCI



2

Hi-Intensity Blotting module, SW20BI-HI



4



3

Western Blotting module, VS20BI

ACCESSORIES



glass plates with bonded spacers



combs



cool packs

ORDERING INFORMATION

VS20WAVECES	Complete Maxi WAVE (20x20cm) Vertical Electrophoresis Modular System , comprising:		
	1x Maxi WAVE Vertical Unit, VS20WAVESYS (1) which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 24 samples), 1x casting base, silicone mat, cooling pack plus: 1x Electroblotting Module, VS20BI (3) comprising: internal electroblotting module, 4x compression cassettes for gel sizes up to 20x20cm and 18x fibre pads plus: 1x Capillary Electrophoresis Module, VS20DCI (2) which includes: internal running module for tube gels, capillary tubes, blanking plugs and 1x VS20WAVE IEF-KIT: 1 set of plain glass plates with bonded spacers, 0.6x20cm (WxH); and 2x 2-D combs with one 3.5mm marker lane and one 18cm preparatory well		
VS20WAVEC2DS	Complete Maxi WAVE 2-D System , comprising:		
	1x Maxi WAVE Vertical Unit, VS20WAVESYS (1) which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick 24 samples), 1x casting base, silicone mat, cooling pack plus: 1x Capillary Electrophoresis Module, VS20DCI (2) which includes: internal running module for tube gels, capillary tubes, blanking plugs and 1x VS20WAVE-IEF-KIT: 1 set of plain glass plates with bonded spacers, 0.6x20cm (WxH); and 2x 2-D combs with one 3.5mm marker lane and one 18cm preparatory well		
VS20CBS	Complete Maxi WAVE (20 x 20cm) Vertical Electrophoresis & Blotting System , comprising:		
	1x Maxi WAVE Vertical Unit, VS20WAVESYS (1) which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 24 samples), 1x casting base, silicone mat, cooling pack plus: 1x Electroblotting Module, VS20BI (3) comprising: internal electroblotting module, 4x compression cassettes for gel sizes up to 20x20cm and 6x fibre pads		
VS20CBS-HI	Complete Maxi WAVE (20 x 20cm) Vertical Electrophoresis & High Intensity Blotting System , comprising:		
	1x Maxi WAVE Vertical Unit, VS20WAVESYS (1) which includes: 2x4mm thick notched glass plates, 2x4mm thick plain glass plates with 1mm thick bonded spacers, 1x blanking plate, 2x combs (1mm thick, 24 samples), 1x casting base, silicone mat, cooling pack, plus: 1x High Intensity Electroblotting Module, SB20BI-HI (4) which includes: internal electroblotting module, 2x compression cassettes for gel sizes up to 20x20cm and 6x fibre pads		
SB20	omniBlot Maxi 20 x 20cm Blotting System	VS20-BI	omniBlot Maxi Insert, including 4x cassettes, 18x foam pads
VS20BI-HI	omniBlot Maxi High Intensity Insert, includes 1x cassette, 6x fibre pads		

omniPAGE Vertical Gel Chambers can accommodate a wide variety of casting combs. Standard options are shown below, while custom combs can be manufactured on request. To select a comb, just add the desired thickness to the end of the comb code to get the complete ordering code, for example, VS10-4-1 is a 1 mm thick comb and VS20-24-1.5 is a 1.5 mm comb. Well volume shown below is for 1mm thick combs, except for Sharks Tooth combs which are 0.25mm. For volume of other thicknesses, please refer to the Cleaver Scientific website.

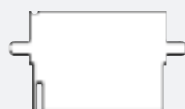
Colour-coded combs for the multiSUB are available in 4 thicknesses.

Black – 0.75mm for tightly resolved bands **White** – 1mm supplied as standard
Red – 1.5mm to maximise sample volume **Blue** – 2mm to maximise sample volume

Black and white combs recommended for high resolution gels and publication quality data;
red and blue to scale-up nucleic acid volumes for preparatory techniques.

NOTE: volume refers to maximum well volume of the longer tooth

mini



VS10-1-1, (650µl)



VS10-5-1, (100µl)



VS10-8MC-1, (60µl)



VS10-9-1, (50µl)



VS10-10-1, (40µl)



VS10-12-1, (35µl)

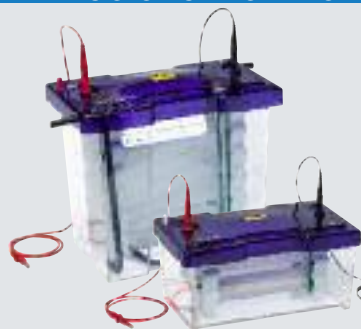


VS10-16-1, (25µl)



VS10-20-1, (20µl)

mini wide and maxi wave



VS20-1-1, (1500µl)



VS20-5-1, (1200µl)



VS20-10-1, (100µl)



VS20-18MC-1, (50µl)



VS20-24-1, (40µl)



VS20-30-1, (35µl)



VS20-36-1, (25µl)



VS20-48-1, (20µl)

maxi plus



VS30-1-1, (2250µl)



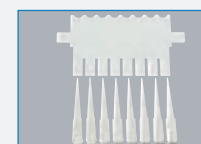
VS30-28-1, (80µl)



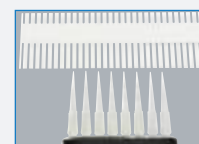
VS30-56-1, (40µl)



VS30-75-1, (25µl)

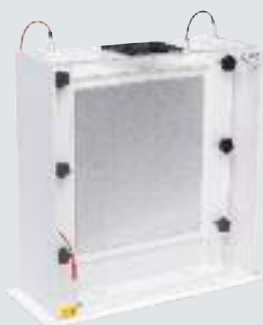


MC = fits multichannel pipettes



MCSS = fits multichannel loading every second row

large format



CSQ20-1-24SQT, (40µl)



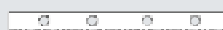
CSQ20-0.25-24, (7µl)



CSQ20-1-48SQT, (20µl)



CSQ20-0.25-48, (3µl)



CSQ33-1-48SQT, (35µl)



CSQ33-0.25-48, (7µl)



CSQ233-1-80SQT, (20µl)



CSQ33-0.25-96, (3µl)



omniPAGE Gradient Mixers

Ideal for Caesium, Sucrose and Gel gradients the Gradient Mixer series comprises 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.



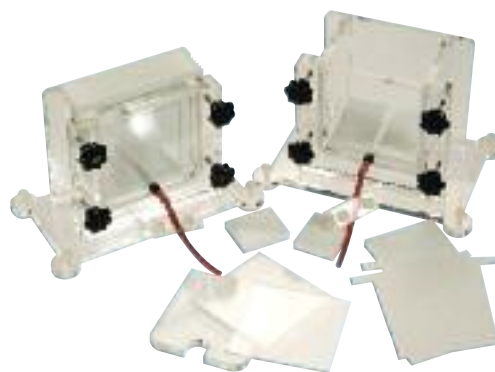
KEY FEATURES

- Leak proof seals
- Easy to use
- Compatible with vertical gel chambers

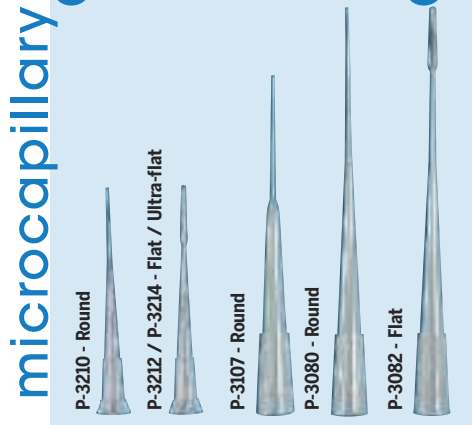
Multiple Gel Casters

Advance casting of multiple mini and maxi gels can help to achieve consistent results between runs. These multiple gel casting systems are tailored for use with omniPAGE mini and omniPAGE maxi 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.



microcapillary gel loading tips



These Gel-Loading Pipette Tips are designed for sample loading of electrophoresis gels. They provide positive-displacement accuracy and reproducibility using Pipetman and most other single channel air-displacement pipettors. RNase/DNase-free Tips comprise three styles, each featuring a flexible, 33mm long, 5µl microcapillary tube sections:

- Round-shaft Tip, with 0.57mm OD tube end - these greatly improve loading techniques for 0.75, 1.0 and 1.5mm PAGE gels.
- Intermediate 0.37mm OD flat Tip is ideal for loading 0.4mm sequencing gels.
- Ultra-thin 0.17mm OD ultra-flat Tip is perfect for loading 0.2mm wedge-spacer gels.

KEY FEATURES

- Two styles Round or Flat (Duckbill)
- 'Unifit' design provides tight seal
- Complete visibility of sub-microlitre volumes - 200µl models (83mm) at 5µl; 2µl/10µl models at 2µl
- For use with 2, 10, 20, 100 and 200µl pipettes
- Metal and RNase free



ORDERING INFORMATION

GRADIENT MIXERS

CSL-GM15	15ml Gradient Mixer
CSL-GM25	25ml Gradient Mixer
CSL-GM50	50ml Gradient Mixer

CSL-GM100	100ml Gradient Mixer
CSL-GM500	500ml Gradient Mixer

MULTI VERTICAL GEL CASTERS

CSL-6CAST	6 gel caster for 8 x 10cm or 10 x 10cm mini gels
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CSL-12CAST	12 gel caster for 8 x 10cm or 10 x 10cm mini gels
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GEL LOADING TIPS

		Packaging
P3210	Round Orifice, 0.2-10µl, 0.5mm diam.	Case = 4x rack/200
P3212	Flat Orifice, 0.2-10µl, 0.33mm diam.	Case = 4x rack/200
P3214	UltraFlat Orifice, 0.2-10µl, 0.17mm diam.	Case = 4x rack/200

Packaging

		Packaging
P3107	Round Orifice, 20-200µl, 1.1mm diam.	Case = 5x rack/200
P3080	Round Orifice, 20-200µl, 0.5mm diam.	Case = 4x rack/200
P3082	Flat Orifice, 20-200µl, 0.33mm diam.	Case = 4x rack/200



omniPAGE Maxi Plus

43

The Maxi Plus unit provides a convenient solution 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, 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.

KEY FEATURES

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



FOR
IEF SYSTEM,
SEE
PAGE 56



Western Blotting Module,
VS30BI

ORDERING INFORMATION

VS30D	omniPAGE MAXIPLUS, 30 x 22cm Dual with Glass Plates with bonded 1.5mm spacers, 2 x 28 sample combs, 2 x 2-D combs, cooling pack, blanking plate
VS30DSYS	omniPAGE MAXIPLUS, as above with Casting Base
VS30BI	omniPAGE MAXI Blot Plus Module - includes 4 cassettes and 8 fibre pads
VS30DCAST	30 x 22cm Dual Casting Base
VS30DCASTM	Replacement Silicone Mat for 30 x 22cm Casting Base
VS30DIRM	Inner Running Module
VS30ICB	Maxi Cooling Pack
VS30-x-LG	Loading guides for omniPAGE MAXI combs, x = comb well number
VS30NG	30 x 22cm Notched Glass Plates 4mm thick (pk/2)
VS30PG	30 x 22cm Plain Glass Plates 4mm thick (pk/2)
VS30NGS0.75	30 x 22cm Notched Glass Plates with 0.75mm Bonded Spacers (pk/2)
VS30PGS0.75	30 x 22cm Plain Glass Plates with 0.75mm Bonded Spacers (pk/2)
VS30NGS1	30 x 22cm Notched Glass Plates with 1mm Bonded Spacers (pk/2)
VS30PGS1	30 x 22cm Plain Glass Plates with 1mm Bonded Spacers (pk/2)
VS30PGS1.5	30 x 22cm Plain Glass Plates with 1.5mm Bonded Spacers (pk/2)
VS30PGS2	30 x 22cm Plain Glass Plates with 2mm Bonded Spacers (pk/2)
VS30DP	Blanking Plate, 30 x 22cm
VS30S0.75	22cm Spacers - 0.75mm (pk/2)
VS30S1	22cm Spacers - 1mm thick (pk/2)
VS30S1.5	22cm Spacers - 1.5mm thick (pk/2)
VS30S2	22cm Spacers - 2mm thick (pk/2)

Colour	CODE	DESCRIPTION	SAMPLE VOLUME PER WELL	Colour	CODE	DESCRIPTION	SAMPLE VOLUME PER WELL
	VS30-1-1	Comb 1 Prep, 1 Marker, 1mm thick	2250µl		VS30-1-1.5	Comb 1 Prep, 1 Marker, 1.5mm thick	3375µl
	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

MC = multichannel pipette compatible

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omniPAGE Blot Transfer Systems

Electroblotting is a technique to immobilise proteins or nucleic acid separation on a solid membrane support. Samples are then detected using specific antibodies, ligands or nucleic acid probes that bind to individual proteins or nucleic acid sequences. This allows identification, quantification or interaction's study of proteins and nucleic acid from various samples, and makes it a powerful technique in proteomics and genomics.

Cleaver Scientific offers four types of system:

MODULAR ELECTROBLOTTERS – combine PAGE and transfer techniques within the same tank. These options are shown in the PAGE vertical sections

TANK TRANSFER SYSTEMS – available with either plate or wire electrodes, support efficient, quantitative transfers over a wide molecular weight range. Plate electrode systems are faster through greater field strength; wire electrodes are more economical, consuming less current and generating less heat.

SEMI-DRY TRANSFER SYSTEMS – perfect for rapid, high-intensity transfers of mid-range proteins, 10-100kD in size.

MICROFILTRATION (DOT AND SLOT BLOTTING) – does not require electrophoresis and is used to determine the working conditions for a new blotting assay, antibody titres and antibody-antigen specificity. Also suitable for nucleic acids

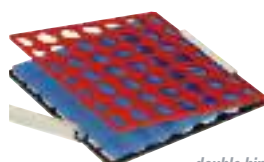
TankBlot Electroblotters

Designed primarily for wet electroblotting of proteins, these 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

KEY FEATURES

- 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

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

ORDERING INFORMATION

EBM10	TankBlot Mini ElectroBlotter, 10 x 10cm System for five cassettes, with tank and lid, 5x cassettes, 12x fibre pads and cooling pack	SB10C	TankBlot Mini Cassette
		SB10F	Fibre pads - pk/8
EBM20	TankBlot Maxi ElectroBlotter, 20 x 20cm System for five cassettes, with tank and lid, 5x cassettes, 12x fibre pads and cooling pack	SB20C	TankBlot Maxi Cassette
		SB20F	Fibre pads - pk/6

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.

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. 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.



KEY FEATURES

- Rapid transfer times
- Western, Southern and Northern Blots
- Economic Transfers due to very low buffer volumes
- Screw down lid - accommodates gels from 0.25 up to 10mm
- Uniform heat dispersion

Dot and Slot

Dot Blot and Slot Blot microfiltration manifolds are designed for DNA and RNA filter blot hybridisations and immunological (Ag/Ab) screening applications.

Machined from high density acrylic, their precision lapped mating surfaces and leak proof gasket ensures uniform filter contact, preventing lateral transfer of samples- smudging - by ensuring that a complete vacuum is formed. A permanent filter template is provided with each manifold to simplify the cutting of filters to the exact size. A vacuum of approximately 600mm Hg (0.8 Bar) is required during sample application. Four configurations are available for 24 & 48 for slots and 48 & 96 wells for dots in the configuration of standard microplates. Each well is alpha-numerically grid referenced for easy identification.

KEY FEATURES

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



Model	D48	D96	S24	S48
Configuration	3 x 16	8 x 12	2 x 12	3 x 16
Size of well	6mm diameter	6mm diameter	6 x 0.5mm	6 x 0.5mm
12mm deep	12mm deep	12mm deep	12mm deep	
Vacuum required	----- 600mm Hg 0.8 BAR with cold trap -----			
Unit dimensions	6x9.5x10cm	6x10.5x14cm	6x7.4x8.3cm	6x9.5x10cm
Membranes size required	12.1 x 4.4cm	11 x 7.4cm	12.1 x 4.4cm	12.1 x 4.4cm

ORDERING INFORMATION

SEMI DRY BLOTTERS

SD10 Semi Dry Mini, 10 x 10cm System

SD20 Semi Dry Midi, 20 x 20cm System

DOT & SLOT BLOTTERS

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