

FASTER SET UP:

- Fewer Screws – novel vertical screw-clamp technology reduces the number of screws required for set up compared to traditional large-format systems, dramatically reducing assembly time
- No Top Tank Assembly - A built-in inner buffer chamber within the PAGE insert allows set up to be completed without inclusion of a top tank or upper buffer chamber



The VS20WAVE Maxi Vertical Electrophoresis System

The new VS20WAVE Maxi System is Cleaver Scientific's latest product innovation for large-format vertical gel electrophoresis. Designed to perform a variety of separations, including first- and second-dimension SDS-PAGE, native, preparative, gradient and high-resolution nucleic acid electrophoresis, plus capillary tube gel IEF and electroblotting, the VS20WAVE is one of the most versatile maxi vertical systems available.

By introducing innovative, new vertical screw-clamp technology within the

PAGE insert only four screws are now necessary to secure as many 20x20cm gels. This gives the VS20WAVE Maxi the selective advantage of a much faster set up speed compared to competitor products whose traditional clamping configurations require as many as 24 screws to secure just two glass plates. In addition, the WAVE's 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, but still maintains a leak-proof seal during casting; while the ergonomic wave-like

design of the PAGE insert aids both handling and set up.

Whatever your requirements are the WAVE can be made to meet them. Regardless of whether it is running 2 or 4 gels, electroblotting, and IEF using capillary tube gels or IPG strips, all of these techniques may be performed using the same omni-purpose unit while retaining the benefits of large format electrophoresis, such as extended separation distances, greater sample throughput and superior resolution.

ORDERING INFORMATION

VS20WAVESYS	VS20WAVE Maxi, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2x 24 sample combs, cooling coil, dummy plate and Casting Base
VS20WAVESYS-CU	VS20WAVE Maxi, 20 x 20cm Dual, 2 sets of Glass Plates, 1mm thick bonded Spacers, 2 x 24 sample, 1mm thick combs, cooling coil, dummy plate; includes caster and External casting upstand
VS20WAVE-EC	VS20WAVE External Casting Stand - No Casting Base
VS20DCAST	20 x 20cm Dual Casting Base
VS20DCASTM	Replacement Silicone Mat for 20 x 20cm Casting Base
VS20WAVEDIRM	PAGE insert
VS20WAVE-CC	Detachable Cooling Coil
VS20-x -LG	Loading guides for omniPAGE maxi combs, x = comb well number
VS20NG	20 x 20cm Notched Glass Plates 4mm thick (pk/2)
VS20PG	20 x 20cm Plain Glass Plates 4mm thick (pk/2)
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)
VS20PGS1	20 x 20cm Plain Glass Plates with 1mm Bonded Spacers (pk/2)
VS20PGS1.5	20 x 20cm Plain Glass Plates with 1.5mm Bonded Spacers (pk/2)
VS20PGS2	20 x 20cm Plain Glass Plates with 2mm Bonded Spacers (pk/2)
VS20DP	Dummy Plate, 20 x 20cm
VS20S0.75	20cm Spacers - 0.75mm (pk/2)
VS20S1	20cm Spacers - 1mm thick (pk/2)
VS20S1.5	20cm Spacers - 1.5mm thick (pk/2)
VS20S2	20cm Spacers - 2mm 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
RPW-0.2100	Replacement Platinum Wire - 0.2mm, 100cm
MC=multichannel pipette compatible	

SPECIFICATIONS

Number of gels	1-4	Total Volume Inner Buffer Chamber	640mL
Handcast gels	Using VS20 glass plates and combs	Total buffer Volume for 2 gels	5.3L
		Total buffer volume for 4 gels	4.8L
Plate dimensions (w x h x t)	20x20x0.4cm	Standard run time for SDS-PAGE Without Cooling	4-5 hours
		With Cooling	3-4 hours
Standard Spacer Dimensions (w x h)	2x20cm	Recommended power supplies	EV233 for IEF (Pg 89); CS-500V for PAGE (Pg 88); CS-3AMP for blotting (Pg 88)
IPG Spacer Dimensions (w x h)	0.6x20cm	Unit Dimensions (w x d x h) Weight	30x18x27cm 2.5Kg

COMB SPECIFICATIONS

Code	Description	Sample Volume per well
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
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
VS20-36MC-1	Comb 36 sample MC, 1mm thick	25µl
VS20-48-1	Comb 48 sample, 1mm thick	20µl
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
VS20-48-1.5	Comb 48 sample, 1.5mm thick	30µl
VS20-1-2	Comb 1 Prep, 1 Marker, 2mm thick	3000µl
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



VS20CBS



SB20-HI



VS20WAVEC2DS



VS20WAVECES



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