

ConcertoGEL Horizontal Electrophoresis Systems SELECTION GUIDE

Hercuvan's ConcertoGEL Horizontal Gel Electrophoresis Systems are created by scientists who take heart to orchestrate science every day.

ConcertoGEL Electrophoresis. The name implies an integrated range of system where it all comes together with necessary components, through brainy design and innovative features, offers a robust, versatile and flexible system which is highly adaptable to volatile changing needs of today's scientist to orchestrate streamlined gel electrophoresis experiments and analysis every day.

Tank and Lid Design



Tanks and lids are built for robustness, safety, durability and longevity. The advantages of injection moulded design are leak-proof with minimal evaporation.

Easy lid removal

Lid design with thumb locators allows easy lid removal and reduces wear and tear on the electrode plugs.

Electrical safety

Lid removal immediately disconnects electrical current to the lower buffer chamber to allow completely safe access to the gel.

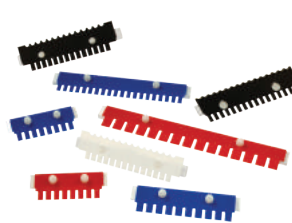
Casting System



Plug-and-Go casting system –rapid set-up and guaranteed leak proof while casting gels. Moulded casting dams clip easily onto the ends of the gel tray for quick external casting, allowing ConcertoGEL unit to remain in use for gel running.

Simply place one dam onto the lab bench facing upwards and insert gel tray into the groove in the dam and repeat with the second dam at the other end. The dam is now sealed and may be placed on flat bench or gel levelling table for leak-proof gel casting.

Combs



Wide catalogue of **colour coded combs by four thicknesses** - meet virtually every application from preparatory electrophoresis to high- throughput screening.

Black (0.75mm)
for tightly resolved bands

White (1mm)
supplied as standard

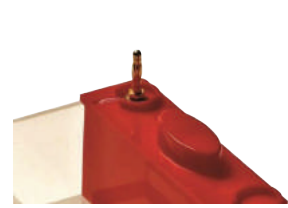
Red (1.5mm)
to maximise sample volume

Blue (2mm)
to maximise sample volume

Black and White combs are suitable for high resolution gels and publication quality data, red and blue to scale-up nucleic acid volumes for preparatory techniques.

The height-adjustable combs give users full control over well depth and sample loading volume. The rigid comb back material is constructed to **prevent heat-inducing warping.**

Electrodes



Cassette-style electrodes difficult to break, composed of 99.99% corrosion-resistant, pure platinum with gold plated terminals.



The electrodes are **easy and inexpensive to change** with recessed channel to protect wiring system.

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Lab Systems

Accessories



Red loading guides
Ease well and sample visualization during loading.

Viewing platform
Offers a contrasting background to view bromophenol blue migration fronts and determine electrophoresis progress during every run.

Gel levelling table
Recommended especially for ConcertoGEL Maxi gel tray.

Gel Scoops



Gel scoops
Available in various sizes for safe handling of hazardous gels containing ethidium bromide.

Gel Trays



Multiple gel tray selections
Eliminate extra cost for additional gel tanks and allow gels to be casted externally.

Gel trays are UV and blue light transparent (up to 300nm), enable gels to be imaged without removal from the tray.

Power Cables



4mm standard connections are **compatible with most modern low-to-medium power supplies**. Adapters can be supplied for complete power supply compatibility.

Flexicasters



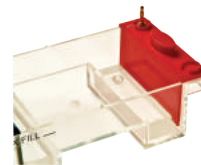
Flexicasters allow **casting externally** without dams and multiple gels simultaneously to save time while the unit is running.

Cool Packs & Platform



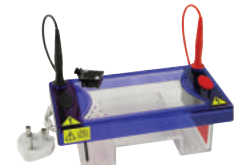
Cool packs and platform are available for experiments that require **high intensity runs** (high voltage produces heat). This **reduces overheating** and maintains the temperature within acceptable limits.

Buffer Saver Blocks



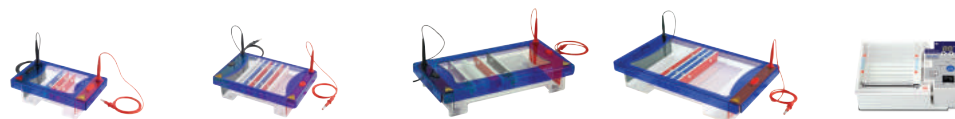
Buffer saver blocks reduces tank volume and **lowers buffer cost**, added economy for large format units. Can also be used when running gels at lower voltage.

Clearsight Lid



Condensation can often build up during electrophoresis and obscure the progress of the run. These lids eliminate the need to stop the run and remove the lid just to monitor how far the sample has run. The lid is **built with USB powered fan that completely removes condensation**. Available as complete system or an upgrade if you have purchased ConcertoGEL tank.

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	ConcertoGEL				MiniGEL
	Midi	Classic	Classic XL	Maxi	
	Built for routine and rapid PCR sample screening as well as DNA fragment analysis. Resolves up to 100 samples per gel.	Wide format system with 2-3 times sample capacity as Midi units. A comprehensive selection of combs offers maximum flexibility for preparatory and screening techniques. Recommended for cloning and mini-prep analysis.	An extended version of Classic unit, excellent for stretched high resolution separation of samples from 96-well microplates and blocks. Suitable to be used for routine preparatory techniques.	Large format system with maximum versatility designed for high-throughput techniques. Multichannel pipette compatible combs allow speedy loading of samples from 96-well microplates. Perfect for RFLP analysis, southern and northern blotting applications, DNA library and PCR fragment analyses.	An all-in-one compact system with power supply directly attaches to the gel tank. Three pre-set voltage selector: 35V, 50V and 100V and adjustable digital timer from 0-99 minutes. Quick and easy casting for low number of sample analysis.
Unit dimensions (W x D x H)	12.5 x 22 x 9 cm	17.5 x 26.5 x 9 cm	17.5 x 41 x 9 cm	23 x 39.5 x 9 cm	11 x 12 x 4.5 cm
Gel size (W x D)/ Corresponding gel tray	10 x 7 cm /CGMD-UVT7 10 x 10cm /CGMD-UVT10	15 x 7 cm /CGCL- UVT7 15 x 10 cm /CGCL- UVT10 15 x 15 cm /CGCL- UVT15	15 x 20 cm /CGCL-UVT20 15 x 25 cm /CGCL-UVT25	20 x 10 cm /CGMX-UVT10 20 x 15 cm /CGMX-UVT15 20 x 20 cm /CGMX-UVT20 20 x 25 cm /CGMX-UVT25	11 x 6 cm/Gel Tray A 5.4 x 6 cm/Gel Tray B
Sample capacity	1-50 (10 x 7 cm) a 1-100 (10 x 10 cm) b	1-70 (15 x 7 cm) a 1-140 (15 x 10 cm) b 1-210 (15 x 15 cm) c	1-280 (15 x 20 cm) f 1-350 (15 x 25 cm) g	1-200 (20 x 10 cm) b 1-350 (20 x 15 cm) c 1-450 (20 x 20 cm) d 1-550 (20 x 25 cm) e	1-44 (11 x 6 cm) 1-36 (5.4 x 6 cm)
Tank buffer volume	300 ml	500 ml	1000 ml	1200 ml	250 – 300 ml
Combs thickness/ No. of teeth	0.75, 1.0, 1.5, 2.0 mm/ 1, 2, 4, 8, 10MC, 12,16, 20, 25	0.75, 1.0, 1.5, 2.0 mm/ 1, 2, 4, 10, 10MC, 12, 14MC, 16 MC, 28MCA, 35	0.75, 1.0, 1.5, 2.0 mm/ 1, 2, 4, 10, 10MC,12, 14MC, 16MC, 28MCA, 35	0.75, 1.0, 1.5, 2.0 mm/ 1, 2, 4, 10, 16, 20MC, 25, 30, 36, 40MCA, 50	1mm/10, 12, 18, 22
Plug-and-Go casting dams supplied	Yes, 1 pair	Yes, 1 pair	Yes, 1 pair	Yes, 1 pair	No
Flexicaster options & tray capacity	CGMD-FC: 1 tray CGCLMX-FC: 1 tray	CGCLMX-FC: 1 tray	CGCLMX-FC: 1 tray	CGCLMX-FC: 1 tray	No
Typical running conditions	90V, 45-60 minutes	90-150V, 60-90 minutes	100-150V, 60-90 minutes	100-150V, 60-90 minutes	
Bromophenol blue migration	~4-5cm/h at 90V	~4-7cm/h at 90-150V	~4-6cm/h at 100-150V	~4-6.5cm/h at 100-150V	

Notes:

a Assumes 1-2 combs per gel **b** Assumes 1-4 combs per gel **c** Assumes 1-6 combs per gel **d** Assumes 1-9 combs per gel
e Assumes 1-11 combs per gel **f** Assumes 1-8 combs per gel **g** Assumes 1-10 combs per gel