

Vertical Gel Units

BENEFITS INCLUDE

- **Comprises** - one standard GRM and one EBGRM, which are interchangeable within the same gel tank, allowing the user either to perform PAGE and IEF independently or as part of a fully integrated 2-D system
- **Twin-cassette EBGRM** - available in 3 sizes to allow simultaneous transfer of 2 polyacrylamide gels



- **Plate-electrodes** - only 6cm apart - maximise the intensity of the electric field, allowing rapid transfer in as little as 1 hour
- **Colour-coded electroblotting cassettes** - corresponding to the anode and cathode - ensure that transfer is performed in the correct orientation, while fibre pads compress the gel against the membrane for uniform transfer
- **Twin-plate standard GRM** - designed specifically for SDS-PAGE techniques requiring self-cast gels, although commercially available 10 x 10cm precast gels may be used in the TV100-GRM
- **Casting base and cooling** - included as standard - act in tandem with glass plate stops within the GRM to lock the plates firmly in position on the casting base, whereas snap-lock connectors allow the cooling coil within the tank to be connected to the JULABO chiller unit for high voltage/current separations
- **Colour-coded combs and spacers** - available in 1mm thickness
- **Nitrocellulose and PVDF membranes available plus SERVA 10 x 10cm precast gels and blotting buffers** - see pages 135-142 for further details



TV Modular Electroblotting Systems

The TV modular electroblotting systems provide a complete solution within one gel tank for PAGE and electroblotting. These systems are available in existing TV100, TV200 and TV400 formats, and comprise individual gel-running modules designed specifically for PAGE (GRM) and electroblotting (EBGRM).

TECHNICAL SPECIFICATION

		TV100YK-EBSYS	TV200YK-EBSYS	TV400YK-EBSYS
Unit Dimensions (W x D x H)		28 x 15 x 18cm	40 x 15 x 17cm	38 x 15 x 27.5cm
Inner Tank Dimensions (W x D x H)		16.5 x 11 x 15cm	27 x 11 x 15cm	27 x 12.5 x 25cm
Plate Dimensions (W x H x T)		10 x 10 x 0.2cm	20.5 x 10 x 0.4cm	20.5 x 20 x 0.4cm
Standard Spacer Dimensions (W x H x T)		1 x 10 x 0.1cm	2 x 20 x 0.1cm	2 x 20 x 0.1cm
Active Gel Dimensions (W x H)		8 x 8.5cm	16.5 x 8.5cm	16.5 x 17.5cm
Sample Capacity		2 x 12	2 x 24	2 x 24
Recommended Buffer Volume (PAGE GRM)	Inner Buffer Chamber	90ml	300ml	700ml
	Gel Tank	1600ml	3800ml	4200ml
Recommended Running Conditions for SDS-PAGE	Voltage	100 - 150V (10 - 15V/cm)	150 - 200V (15 - 20V/cm)	200 - 300V (10 - 15V/cm)
	Current	10 - 15mA	15 - 20mA	30 - 40mA
	Time	1 - 1.75h	1.5 - 2h	2 - 2.5h
Distance Between Plate Electrodes in EBGRM		6cm	6cm	6cm
Electroblotting Cassette Dimensions (W x L)		11.5 x 10.5cm	20.5 x 10cm	20.5 x 20cm
Active Transfer Area		71cm ²	117cm ²	289cm ²
Recommended Running Conditions for Electroblotting	Voltage	100V	100V	200V
	Current	75mA (0.6-0.8mA/cm ²)	75mA (0.6-0.8mA/cm ²)	150mA (0.8-1.0mA/cm ²)
	Time	4 - 6h	4 - 6h	6h to overnight
Snap-lock Connectors for Cooling Coil	Inner Diameter	10mm	10mm	10mm
	Outer Diameter	12mm	12mm	12mm
Quick-fit Tubing	Inner Diameter	10mm	10mm	10mm
	Outer Diameter	12mm	12mm	12mm
Casting Base Silicone Seal Dimensions (W x L x H)		1.5 x 11 x 0.8cm	1.7 x 22.5 x 0.8cm	1.7 x 22.5 x 0.8cm
Power Output Connectors (diameter)		Shrouded, 4mm	Shrouded, 4mm	Shrouded, 4mm
Recommended Power Supplies		Consort EV215 or EV261	Consort EV215 or EV261	Consort EV215 or EV261

ORDERING INFORMATION

Complete System

Twin-plate mini-gel unit with GRM and cooled gel tank, with built-in cooling coil and quick-fit tubing, lid, 2 x (10 x 10cm; W x H) plain glass plates, 2 x (10 x 10cm) notched glass plates, 1 x dummy plate, 4 x 1mm thick spacers, 2 x spacer aligners and 2 x 1mm thick 12-sample combs, casting base and 2 x silicone seals; plus EBGRM, 2 x electroblotting cassettes and 4 x fibre pads

Part No.



TV100YK-EBSYS

Twin-plate wide format mini-gel unit with GRM and cooled gel tank, with built-in cooling coil and quick-fit tubing, lid, 2 x (20.5 x 10cm; W x H) plain glass plates, 2 x (20.5 x 10cm) notched glass plates, 1 x dummy plate, 4 x 1mm thick spacers, 2 x spacer aligners and 2 x 1mm thick 24-sample combs, casting base and 2 x silicone seals; plus EBGRM, 2 x electroblotting cassettes and 4 x fibre pads



TV200YK-EBSYS

Twin-plate maxi-gel unit with GRM and cooled gel tank, with built-in cooling coil and quick-fit tubing, lid, 2 x (20.5 x 20cm; W x H) plain glass plates, 2 x (20.5 x 20cm) notched glass plates, 1 x dummy plate, 4 x 1mm thick spacers, 2 x spacer aligners and 2 x 1mm thick 24-sample combs, casting base and 2 x silicone seals; plus EBGRM, 2 x electroblotting cassettes and 4 x fibre pads



TV400YK-EBSYS

See page 76 for a full list of replacement parts and accessories