

## Vertical Gel Units

### BENEFITS INCLUDE

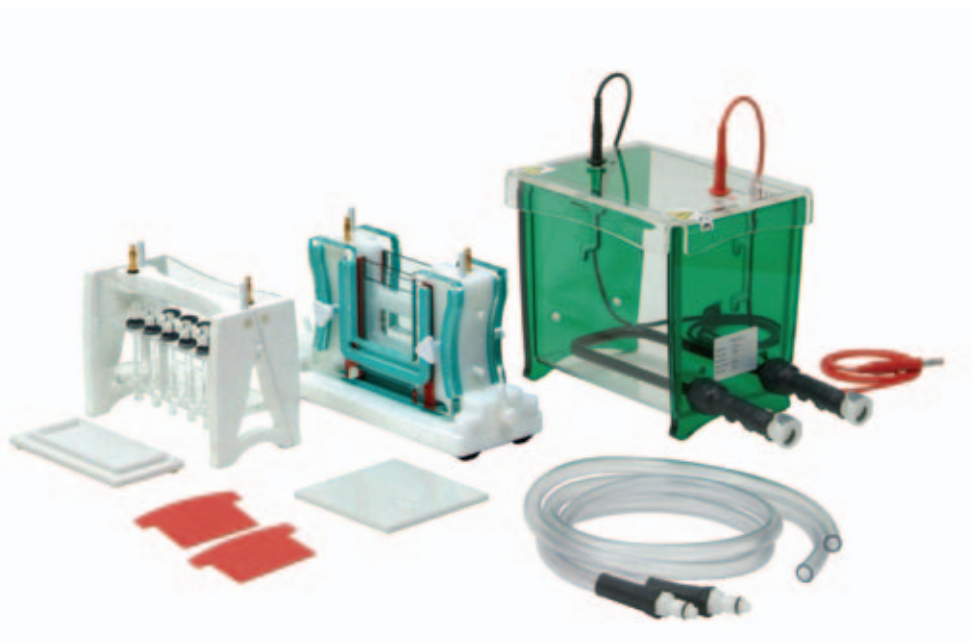
- **Comprises** - one standard GRM and one CAPGRM, which are interchangeable within the same gel tank, allowing the user either to perform PAGE and IEF independently or as part of a fully integrated 2-D system
- **CAPGRM** - available in 2 sizes for first dimension electrophoresis of up to 10 ampholyte capillary gels, a maximum 8 or 17cm in length and 1 or 4mm in internal diameter

TV400-CAPGRM



TV100-CAPGRM

- **Capillary gels** - available in standard 1mm internal diameter for analytical IEF, or as optional 4mm capillaries for protein isolation
- **Gel extraction platform (GEP)** - for safe and easy collection and transfer of fragile, extruded capillary gels
- **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 an external chiller unit for high voltage/current separations
- **Colour-coded combs and spacers** - available in 1 and 1.5mm thicknesses, the latter suited to 1.5mm thick capillary gels for second dimension 2-D electrophoresis
- **Ampholytes, 2-D and PAGE chemicals available** - see pages 118-124 for further details



## TV Modular 2-D Systems

The TV modular 2-D systems provide a complete solution within one gel tank for two-dimensional (2-D) electrophoresis. These systems are available in existing TV100 and TV400 formats and comprise individual gel-running modules designed specifically for denaturing or native PAGE (GRM) and isoelectric focusing (IEF) with capillary gels (CAPGRM).

## TECHNICAL SPECIFICATION

		TV100YK-2DSYS	TV400YK-2DSYS				
Unit Dimensions (W x D x H)		28 x 15 x 18cm	38 x 15 x 27.5cm				
Inner Tank Dimensions (W x D x H)		16.5 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 20 x 0.4cm				
Standard Spacer Dimensions (W x H x T)		1 x 10 x 0.1cm	2 x 20 x 0.1cm				
Active Gel Dimensions (W x H)		8 x 8.5cm	16.5 x 17.5cm				
Sample Capacity		2 x 1 / 2 x 12	2 x 1 / 2 x 24				
Recommended Buffer Volume (PAGE GRM)	Inner Buffer Chamber	90ml	700ml				
	Gel Tank	1600ml	4200ml				
Recommended Running Conditions for SDS-PAGE	Voltage	100 - 150V (10 - 15V/cm)	200 - 300V (10 - 15V/cm)				
	Current	10 - 15mA	30 - 40mA				
	Time	1 - 1.75h	2 - 2.5h				
Capillary Dimensions	Inner Diameter	1mm	1mm				
	Outer Diameter	5mm	5mm				
	Length	80mm	170mm				
Recommended Buffer Volume (CAPGRM)	Upper Buffer Chamber	200ml	200ml				
	Gel Tank	1600ml	1600ml				
Recommended Running Conditions for IEF of Capillary Gels		Pre-run	Separation	End of Run	Pre-run	Separation	End of Run
	Voltage	200V	400V	500V	200V	400V	500V
	Time	0.5h	3h	0.5h	0.5h	6h to 18h	0.5h
	Volt-hours	100Vh	1200Vh	250Vh	100Vh	2400Vh -7200Vh	250Vh
Snap-lock Connectors for Cooling Coil	Inner Diameter	10mm	10mm				
	Outer Diameter	12mm	12mm				
Quick-fit Tubing	Inner Diameter	10mm	10mm				
	Outer Diameter	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				
Power Output Connectors (diameter)		Shrouded, 4mm	Shrouded, 4mm				
Recommended Power Supplies		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; CAPGRM, 10 x 1mm glass capillaries, 4 x 1.5mm thick spacers, 2 x 1.5mm thick 1-D preparatory combs, 10 x blanking ports and 1 x gel extraction platform

### Part No.



TV100YK-2DSYS

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; CAPGRM, 10 x 1mm glass capillaries, 4 x 1.5mm thick spacers, 2 x 1.5mm thick 1-D preparatory combs, 10 x blanking ports and 1 x gel extraction platform



TV400YK-2DSYS