

Vertical Gel Units

The TV Range

The Scie-Plas new-style 'TV Range' vertical gel electrophoresis units offer the ultimate standards in innovative design and manufacture acquired during our 20-year existence.

The new-style 'TV Range' vertical gel electrophoresis units are available in 5 different plate sizes for applications ranging from routine SDS-PAGE mini-gels to large format nucleic acid sequencing and single-strand conformational polymorphism studies (SSCP). As with our 'Green Range' horizontal gel units, each new-style 'TV Range' vertical gel electrophoresis unit

incorporates the many design and safety features recommended to us over the years by scientists, either from within our in-house product development team or laboratories worldwide. Accordingly, each unit is manufactured and finished to the highest specification, versatile, easy to use and fully compliant with European safety regulations.

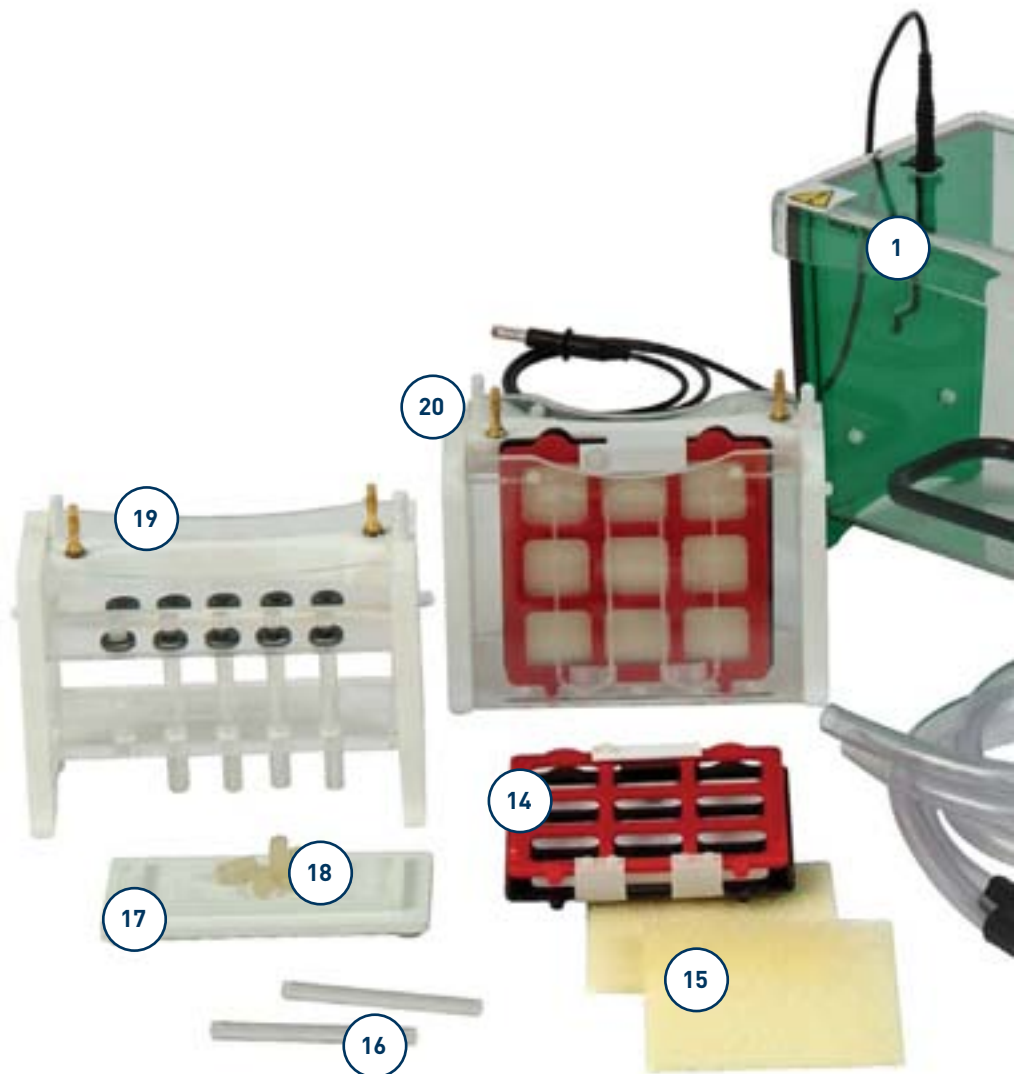
Vertical Gel Units

FEATURES

1. Tank and Lid
2. Power Output Connectors
3. Cooling Coil
4. New-Style Gel-Running Module
5. Dummy Plate
6. Cam-Pin Casting Base
7. Silicone Seals
8. Colour-Coded Spacers
9. Colour-Coded Combs
10. Plain Glass Plates - also available with bonded spacers
11. Notched Glass Plates
12. Spacer Aligners
13. Quick-Fit Tubing With Snap-Lock Connectors
14. Electroblotting Cassette
15. Fibre Pads
16. Glass Capillary Tubes
17. Gel Extraction Platform
18. Blanking Ports
19. Capillary Gel-Running Module (CAPGRM)
20. Electroblotting Gel-Running Module (EBGRM)

BENEFITS INCLUDE

- Robust acrylic tank construction
- Safety lid with integral power leads
- Shrouded 4 and 2mm power output connectors universally compatible with modern-day low, medium and high voltage power supplies
- Long-life, 99.99% pure platinum electrodes
- Gold-plated terminals with corrosion-free stainless steel washers
- Offset asymmetric electrodes
- A versatile, time-saving gel-running module (GRM) which supports both gel-casting and electrophoresis
- Durable high-impact polystyrene (HIPS) and melinex combs which are colour-coded, corresponding to 0.25, 0.35, 0.75, 1, 1.5 and 2mm thicknesses
- Electroblotting and 2-D capillary gel modules available for use within the same tank either as part of a fully integrated system or as a stand-alone unit (TV100, 200 & 400 units only)



The new-style 'TV Range' vertical gel electrophoresis units are available in 7 different formats: -

The **TV50** single-plate 10 x 10cm (W x H) mini-gel unit is a good, cost-effective option for routine, low throughput separation of proteins and nucleic acids in self-cast or commercially available precast gels.

The **TV100** twin-plate 10 x 10cm (W x H) mini-gel unit is, historically, our best selling vertical gel electrophoresis unit which is designed for all standard polyacrylamide gel electrophoresis (PAGE) applications. This unit is ideal for use with commercially available precast gels or gels cast using our new-style GRM and cam-pin casting base. Here, gel cassettes are placed within the GRM and then pulled tightly onto silicone seals by cam pins located in the casting base. Glass plate stops situated within the GRM immediately above the glass plates serve as an immovable barrier, locking the plates firmly into position on the casting base as the cam pins are turned clockwise through 120°.

The gel can then be poured in total confidence that it will be leak-free. Each TV100 unit is also available as a cooled tank option, and can be adapted, either as a stand-alone unit or as part of a fully integrated system, with specific modules for electroblotting and 2-D electrophoresis.

The **TV200** twin-plate 20.5 x 10cm (W x H) wide format mini-gel electrophoresis unit allows more samples to be run within the same gel, eliminating the problems that can be associated with comparing samples from 2 separate mini-gels. The TV200 offers the same benefits as the TV100, including a GRM with glass plate stops and cam-pin casting system, in addition to a cooled-tank and modular electroblotting and capillary gel 2-D electrophoresis options.

The **TV300** single-plate 20.5 x 20cm (W x H) maxi-gel unit is of a similar design to its TV50 counterpart, but its larger active gel dimensions of 16.5 x 20cm allow more samples to be separated over a longer distance.



The **TV400** twin-plate 20.5 x 20cm (W x H) maxi-gel unit offers all the benefits of the TV100 and 200 units, but in a much larger gel size and with greater sample throughput. The TV400-GRM also includes glass plate stops which act in tandem with the cam-pin casting base to provide leak-proof casting, whereas an optional cooled tank format can be connected either to the laboratory water supply or JULABO chiller to maintain the cooling necessary for high quality resolution. Specific modules again allow the TV400 to be adapted either as stand-alone electroblotting and 2-D electrophoresis units or as a fully integrated system.

The **TVS1000** single-plate 20.5 x 50cm (W x H) large format vertical gel unit is ideal for high-resolution techniques, such as DNA sequencing, SSCP, heteroduplex and oligonucleotide analysis, requiring long distance separations.

The **TVS1400** single-plate 33 x 41cm (W x H) large format vertical gel unit yields the same benefits as the TV1000, but its greater width allows more samples to be processed during each electrophoretic separation.

Format	Options Available				Recommended Applications*				
	Standard (i.e. no casting or cooling)	Casting only	Cooling only	Cooling & casting	PAGE	Electroblotting	2-D Capillary	DNA Sequencing	SSCP heteroduplex & oligonucleotide analysis
TV50 single-plate 10 x 10cm (W x H) mini-gel	✓ See TV50	✗	✗	✗	✓	✗	✗	✗	✗
TV100 twin-plate 10 x 10cm (W x H) mini-gel	✓ See TV100	✓ TV100Y	✓ TV100K	✓ TV100YK	✓ TV100, TV100Y, TV100K, TV100YK	✓ TV100YK-EBSYS, TV100YK-MODSYS	✓ TV100YK-2DSYS, TV100YK-MODSYS	✗	✗
TV200 twin-plate 20.5 x 10cm (W x H) wide format mini-gel	✓ See TV200	✓ TV200Y	✓ TV200K	✓ TV200YK	✓ TV200, TV200Y, TV200K, TV200YK	✓ TV200YK-EBSYS, TV200YK-MODSYS	✓ TV200YK-2DSYS, TV200YK-MODSYS	✗	✗
TV300 single-plate 20.5 x 20cm (W x H) maxi-gel	✓ See TV300	✗	✗	✗	✓	✗	✗	✗	✗
TV400 twin-plate 20.5 x 20cm (W x H) maxi-gel	✓ See TV400	✓ TV400Y	✓ TV400K	✓ TV400YK	✓ TV400, TV400Y, TV400K, TV400YK	✓ TV400YK-EBSYS, TV400YK-MODSYS	✓ TV400YK-2DSYS, TV400YK-MODSYS	✗	✗ SEE TV400-DGGE
TVS1000 single-plate 20.5 x 50cm (W x H) large format vertical gel	✓ See TVS1000	✗	✗	✗	✗	✗	✗	✓ TVS1000	✓ TVS1000
TVS1400 single-plate 33 x 41cm (W x H) large format vertical gel	✓ See TVS1400	✗	✗	✗	✗	✗	✗	✓ TVS1400	✓ TVS1400

*Where the TV100YK-EBSYS, TV200YK-EBSYS & TV400YK-EBSYS units include PAGE (GRM) and electroblotting (EBGRM) gel-running modules plus casting and cooling
The TV100YK-2DSYS, TV200YK-2DSYS & TV400YK-2DSYS units include PAGE and 2-D capillary gel-running modules (CAPGRM) plus casting and cooling
The TV100YK-MODSYS, TV200YK-MODSYS & TV400YK-MODSYS units include PAGE, electroblotting and 2-D capillary gel-running modules plus casting and cooling