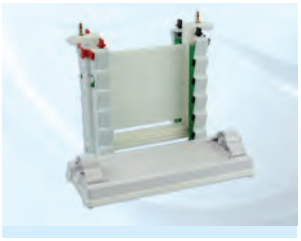
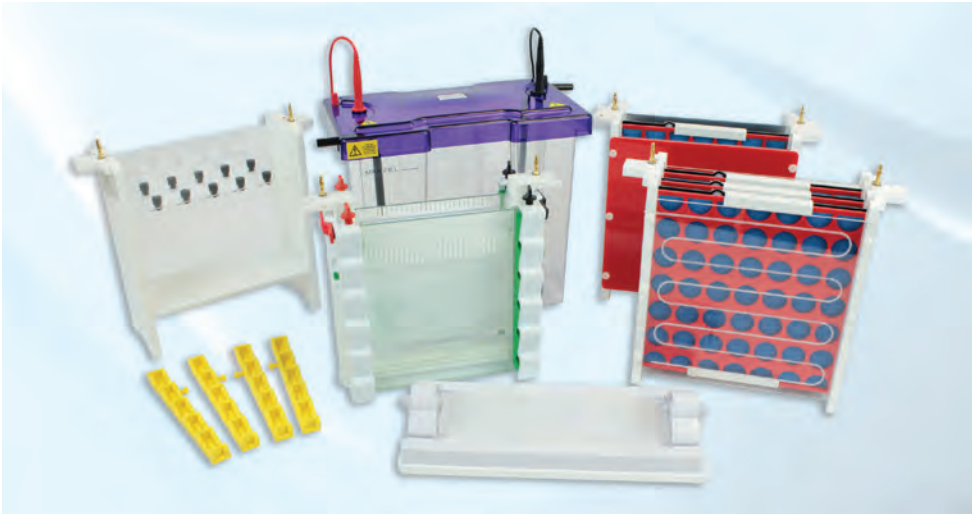
The New VS20 'WAVE' Maxi Vertical Electrophoresis System

The new VS20 'WAVE' 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 VS20 WAVE 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 VS20 WAVE 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.





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

Versatility and Adaptability

- **More Gels** – run 2-4 gels simultaneously in standard 2-gel WAVE and 4-gel WAVE TETRAD systems (pages 43-44)
- **Customise your system** – for second-dimension runs with 18cm IPG strips and gels using the IEF conversion kit
- **Utilise modular inserts** – with the same universal tank and lid to extend the application of your standard WAVE unit to create a complete 2-D or blotting system:
  - WAVEC2DS with capillary tube gel insert for 2-D electrophoresis (pg 38);
  - WAVECBS and WAVETETRAD-CBS for 2- and 4-gel electroblotting (pg 43)

Reproducible Separations

- Vertical screw-clamps distribute pressure evenly along the height of the gel to prevent plate bowing and gel compression
- Glass plates compress gently against a flat, level gasket to prevent current leakage from the inner buffer chamber during electrophoresis
- Detachable inner cooling coil connects to the laboratory water supply or a recirculating chiller to provide uniform, smile-free electrophoresis, while allowing runs to be performed at higher voltage
- Deep gel tank with adequate clearance beneath the glass plates to allow a magnetic stirrer to maintain buffer recirculation and uniform pH