

Biochemicals

Electrophoresis

Bioseparation

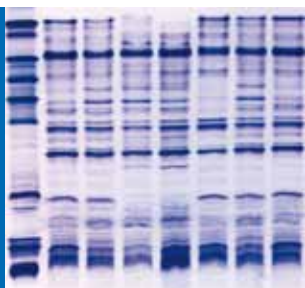
Life Sciences

Specials

BlueHorizon™ Super Cool Flatbed System

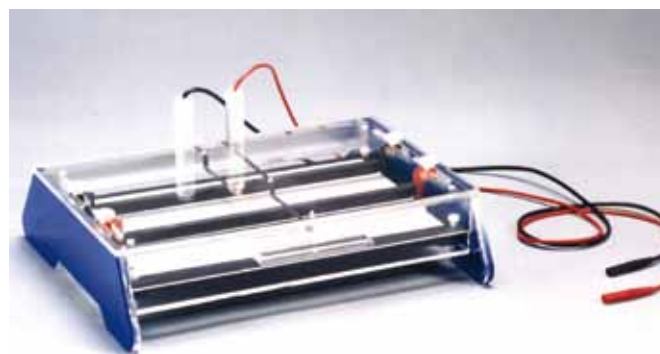
Featuring High Capacity Cooling Plate

The BlueHorizon™ Super Cool is a flatbed system for horizontal electrophoresis using precast gels, self-cast gels and gel strips. Main applications are Isoelectric Focusing (IEF) including the run of IPG strips (like SERVA IPG *BlueStrips*) in 2DGE and SDS PAGE, but also the separation of nucleic acids in polyacrylamide gels.



Isoelectric Focusing of proteins on SERVALYT™ PRECOTES™ 4-6

Adjustment is easy through recessed guideways by set screws. Optionally, a safety lid with 3 integrated electrodes is available.



The cooling plate

Efficient cooling provides homogeneous thermostatting, allowing gels to run at a temperature as low as 4 °C. This provides even heat dissipation which is particularly important when applying high voltage Isoelectric Focusing (IEF) using thin gels and IPG strips. The cooling plate is made from special ceramic material (maximum gel size 260 x 170 mm), connected to an external circulatory refrigeration system (e.g. SERVA's circulatory refrigerator bath WK 230). The cooling plate is adjustable in height to be adapted to different gel thicknesses, ranging from 0.1 mm to 10.0 mm).

The carbon electrodes

The electrodes are made from synthetic carbon. In the standard version (dual-electrode system) the safety lid comes with 2 spring-mounted electrodes. The flexible system provides smooth and optimal contact to the surface and allows to run gels of different sizes (100 mm up to 260 mm wide).

The lid

By simple exchange the lid (dual-electrode standard version vs triple-electrode version), this flatbed system can be up-graded to the triple-electrode mode which is often used in routine applications to enhance sample throughput.

- High capacity cooling plate suitable for high voltage applications like IEF etc.
- Suitable for thin gels (0.15 mm or 0.3 mm), thick gels (up to 10.0 mm) and strips
- Gel format up to 260 x 170 mm
- Electrodes made from long lasting synthetic carbon
- Platinum electrode for high performance IEF available
- Flexible electrode position, 45 to 90 mm separation distance
- Dual and triple electrode arrangement
- Compact design, small footprint - minimum bench space required

Advantages of horizontal electrophoresis for the user

- Short running times for high voltage applications (e.g. IEF) and superb resolution
- Samples are easy to load using SERVA applicator strip and pieces
- Gels are easy to handle and flexible in format, can be cut into any size according to sample throughput
- Economical reagent usage (minimizing running buffer volume)

SERVA offers a wide range of polyacrylamide precast gels for various applications for flatbed electrophoresis

Isoelectric Focusing

- SERVALYT™ PRECOTES™ cast on GEL-FIX™ support film, various pH ranges from pH 3 to 10
- SERVALYT™ PreNets™ with cast-in NetFix™ support net, pH 3-10
- Blank PRECOTES™ cast on GEL-FIX™ support film, to be equilibrated in SERVALYT™ carrier ampholyte of pH range of choice (pH 3 to 11) and, optionally, in urea
- Blank PreNets™ Blotting gels with cast-in NetFix™ support net, to be equilibrated in SERVALYT™ carrier ampholyte of pH range of choice (pH 3 to 11) and, optionally, in urea, suited for subsequent blotting
- SERVA IPG BlueStrips in 2D-gelelectrophoresis (pH range 3-10, 3-10NL, 4-7, 6-10 in lengths of 7, 18 or 24 cm)



Isoelectric Focusing of proteins on SERVA IPG BlueStrips 4-7

SDS PAGE

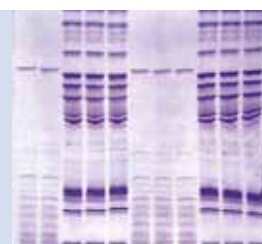
- SDS PreNets™ with cast-in NetFix™ support net for subsequent blotting, neutral buffer system, resolution 10 kDa to 200 kDa

BluePower 3000x4 Power Supply for high voltage applications

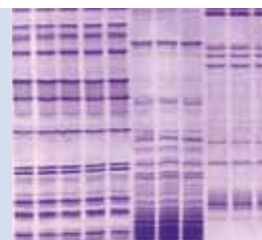


BluePower 3000x4 is designed for high voltage applications (Isoelectric Focusing, DNA sequencing) delivering 3000 V, 200 mA and 300 W. Other applications (SDS PAGE, submarine electrophoresis) can be performed as well. 4 x 2 outlets, programmable.

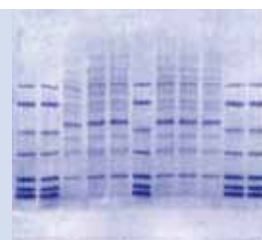
Isoelectric Focusing of proteins on Blank PRECOTES™ equilibrated with SERVALYT™ 3-10 in 8 M urea



Isoelectric Focusing of proteins on Blank PreNets™ equilibrated with SERVALYT™ 3-10



SDS PAGE of proteins on SDS PreNets™ Blotting Gels



Ordering Information

Product	Cat. No.
BlueHorizon™ Super Cool	BH-2C
Upgrade Kit for BH-2C	BH-2C-UG HPIEF
BluePower 3000x4	BP-3000x4
Circulatory refrigerator bath	WK 230

