omniPAGE Blot Transfer Systems

Electroblotting is a technique to immobilise proteins or nucleic acid separation on a solid membrane support. Samples are then detected using specific antibodies, ligands or nucleic acid probes that bind to individual proteins or nucleic acid sequences. This allows identification, quantification or interaction's study of proteins and nucleic acid from various samples, and makes it a powerful technique in proteomics and genomics.

Cleaver Scientific offers four types of system:

MODULAR ELECTROBLOTTERS – combine PAGE and transfer techniques within the same tank. These options are shown in the PAGE vertical sections

TANK TRANSFER SYSTEMS – available with either plate or wire electrodes, support efficient, quantitative transfers over a wide molecular weight range. Plate electrode systems are faster through greater field strength; wire electrodes are more economical, consuming less current and generating less heat.

SEMI-DRY TRANSFER SYSTEMS – perfect for rapid, high-intensity transfers of mid-range proteins, 10-100kD in size.

MICROFILTRATION (DOT AND SLOT BLOTTING) – does not require electrophoresis and is used to determine the working conditions for a new blotting assay, antibody titres and antibody-antigen specificity. Also suitable for nucleic acids

TankBlot Electroblotters

Designed primarily for wet electroblotting of proteins, these Electroblotters offer a combination of increased capacity with economy saving features.
Both units, Mini 10 x 10cm and Maxi 20 x 20cm, have increased capacity over standard systems with up to five gel blot cassettes utilised at any one time. This is especially useful in high throughput laboratories.
A uniform electric field is provided by a high intensity coiled electrode and ensures uniform transfer across the blot surface. The cassette's open architecture ensures the maximum blot area allows direct transfer of current. Its rigid construction ensures contact between the gel and membrane is retained throughout the blot and an even pressure is maintained. These units are compatible with magnetic stirrers to aid heat dispersal and prevent pH drifts in the buffer due to incomplete buffer mixing. Each system includes a cooling pack to further enhance transfer efficiency by removing excess heat. This also saves on buffer for added economy.

double hinged cassettes for added convenience

KEY FEATURES

- Ideal for wet electroblotting of proteins - Western blotting
- Up to five gel blot cassettes utilised at any one time
- Hinged cassettes for added convenience
- Accommodates gel thicknesses from 0.25 up to 3mm

TECHNICAL SPECIFICATIONS

Unit dimensions (W x D x H)	Mini Maxi	19 x 13 x 19cm 24 x 16 x 26cm
Max. sample capacity	Mini Maxi	5 Blots, 10 x 10cm 5 Blots, 20 x 20cm 20 Blots, 10 x 10cm
Buffer volume	Mini Maxi	Min 1000ml; Max 1500ml Min 4300ml; Max 6000ml

ORDERING INFORMATION

EBM10	**TankBlot Mini ElectroBlotter,** 10 x 10cm System for five cassettes,	SB10C	TankBlot Mini Cassette
	with tank and lid, 5x cassettes, 12x fibre pads and cooling pack	SB10F	Fibre pads - pk/8
EBM20	**TankBlot Maxi ElectroBlotter**, 20 x 20cm System for five cassettes,	SB20C	TankBlot Maxi Cassette
	with tank and lid, 5x cassettes, 12x fibre pads and cooling pack	SB20F	Fibre pads - pk/6

Semi Dry Blotters

These Semi Dry Blotters offer rapid transfer times for DNA, RNA and protein blotting - typically 15 to 30 minutes.

All units can be used for all types of blotting: western, southern and northern via uncomplicated buffer and set up procedures and are compatible with gel thicknesses from 0.25 up to 10mm without the need for additional equipment.
Semi Dry Blotting has the added benefit of economic transfers due to very low buffer volumes – typically only a few millilitres of buffer are required per transfer. The electrodes, comprising platinum coated anode and stainless steel cathode, will exhibit practically no corrosion and so provide many years of trouble free use. Uniform heat dispersion across the blot sandwich ensures stable transfer times and no heat induced sample loss or transfer distortions.

KEY FEATURES

- Rapid transfer times
- Western, Southern and Northern Blots
- Economic Transfers due to very low buffer volumes
- Screw down lid - accommodates gels from 0.25 up to 10mm
- Uniform heat dispersion

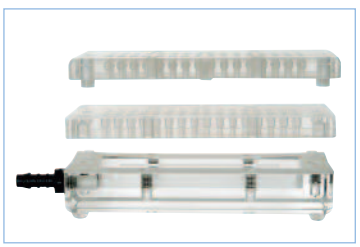
Dot and Slot

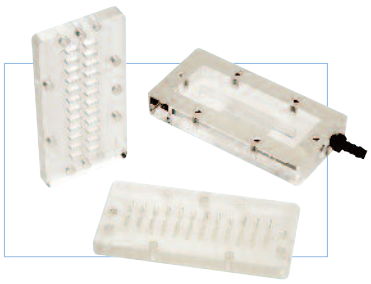
Dot Blot and Slot Blot microfiltration manifolds are designed for DNA and RNA filter blot hybridisations and immunological (Ag/Ab) screening applications.

Machined from high density acrylic, their precision lapped mating surfaces and leak proof gasket ensures uniform filter contact, preventing lateral transfer of samples– smudging – by ensuring that a complete vacuum is formed. A permanent filter template is provided with each manifold to simplify the cutting of filters to the exact size. A vacuum of approximately 600mm Hg (0.8 Bar) is required during sample application. Four configurations are available for 24 & 48 for slots and 48 & 96 wells for dots in the configuration of standard microplates. Each well is alpha-numerically grid referenced for easy identification.

KEY FEATURES

- Low cost
- Easy assembly
- Alpha-numeric sample identification
- Four sample configurations





Model	D48	D96	S24	S48
Configuration	3 x 16	8 x 12	2 x 12	3 x 16
Size of well 12mm deep	6mm diameter 12mm deep	6mm diameter 12mm deep	6 x 0.5mm 12mm deep	6 x 0.5mm
Vacuum required	----- 600mg Hg 0.8 BAR with cold trap -----			
Unit dimensions	6x9.5x10cm	6x10.5x14cm	6x7.4x8.3cm	6x9.5x10cm
Membranes size required	12.1 x 4.4cm	11 x 7.4cm	12.1 x 4.4cm	12.1 x 4.4cm

Ordering Information

SEMI DRY BLOTTERS			
SD10	**Semi Dry Mini**, 10 x 10cm System	**SD20**	**Semi Dry Midi,** 20 x 20cm System
DOT & SLOT BLOTTERS			
CSL-D48	**48-well Dot Blot Manifold**, 3 x 16 array	**CSL-S24**	**24-well Slot Blot Manifold**, 2 x 12 array
CSL-D96	**96-well Dot Blot Manifold**, 8 x 12 array	**CSL-S48**	**48-well Slot Blot Manifold**, 3 x 16 array